

KNOWLEDGE ORGANISER YEAR 9 2024/2025

Name:

Student Number:





Every day all students at DAA are expected to be the best they can be.

All students are expected to achieve their mission as detailed below and strive for this every day by giving 100% at all times.

"At DAA, I developed good moral principles and achieved exceptional outcomes that enabled me to have ambitious life choices"

During their time with us they will achieve this through their industry by showing hard work and resilience in all that they do every day.

Our core values are:

Happiness

The joy of life and learning. In the context of your emotional state, including positive and pleasant emotions ranging from contentment to intense joy. It is important you to have a grasp on your own happiness and well-being and your capacity to influence other people's happiness and well being

Industry

(Hard work & resilience) – This is how hard you work and how you overcome the challenges you face in your learning and life; if you can rise to the challenge when it matters you will be successful.

Responsibility

This is being accountable for the choices that you make and making the right choices to be organised, behave properly and achieve as much as you can. Taking responsibility for your learning will help you to be successful at DAA.

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CYCLE 3 SPELLINGS

| plosive | 'b' , 'p' 't' and 'd' sounds for harsh, aggressive , or shocking effect. |
|--------------|--|
| ambiguity | More than one possible meaning and its unclear which is correct. |
| scale | The size or level of something. |
| mutiny | A rebellion against senior officer. |
| eucharist | Bread and wine ceremony enacting Jesus' last meal. |
| Trade Union | Organisation that represents workers. |
| respiration | The action of breathing . |
| dodecahedron | A 12-sided shape. |
| tectonic | To do with the movement of the earth's surface. |
| volta | A turning point in a poem. |
| | |

WEEK 4

| anaphora | A repetition of words, phrases or clauses. |
|----------------|---|
| enjambment | When a sentence runs over one line with no punctuation. |
| sculpture | The art of making 2 or 3 dimensional representative forms. |
| socialism | Belief workers should own parts of companies. |
| persecution | Hostility or ill treatment of someone/groups. |
| photosynthesis | An endothermic reaction when plants take in energy. |
| demographic | To do with population . |
| parody | A comic imitation of another writer's work. |
| evolution | The gradual development of something. |
| erosion | Wearing away and removal of rock. |

| WEEK 3 | |
|----------------|---|
| assonance | A repetition of vowel sounds. |
| stanza | A group of lines separated from others in a poem. |
| texture | The feel , appearance or consistency of a surface/substance. |
| republicanism | Belief in a country with no monarchy . |
| reconciliation | Repair relationships together. |
| reparations | Compensation money. |
| ascending | In order from smallest to largest. |
| descending | In order from largest to smallest. |
| atmospheric | To do with the air surrounding the Earth. |
| persona | The speaker of the poem who is different from the writer. |

WEEK 5

| juxtaposition | Two things being placed closed together for contrasting effect. |
|---------------|---|
| caesura | A stop or pause in a line of poetry. |
| architecture | The art or practice of designing and constructing buildings . |
| evangelism | Preaching to convert others. |
| chlorophyll | Green pigment in chloroplasts that absorb energy from sunlight. |
| temperature | The degree or intensity of heat . |
| sanitation | Water and cleanliness . |
| variable | Liable to change with conditions. |
| accelerate | To move faster ; to gain speed. |
| urbanisation | The growth in population living in towns and cities. |
| | |

| WEEK 6 | |
|-------------------|---|
| 1. protagonist | The main character in a play |
| 2. emigration | When someone leaves a country or location. |
| 3. climate | Average weather conditions over a period of time. |
| 4. architecture | The design and construction of buildings. |
| 5. covenant | A serious promise. |
| 6. oviducts | Carry egg cells away from the ovary. |
| 7. accent | The way of pronouncing words associated with an area or place . |
| 8. melodrama | Exaggerated emotional plays. |
| 9. dialogue | The spoken script on stage. |
| 10. source | Evidence made at the time of an historical event. |

WEEK 8

| A play where main characters experience reversal of fortune |
|--|
| To overcome and take control of a place or people by force . |
| The long-lasting impact of particular events, actions or people. |
| A frozen picture that tells a story. |
| Believing in many Gods. |
| Informal language used in conversation. |
| The numbers that can be divided into that number. |
| An expression or movement of the body. |
| A way someone has understood and explained the past . |
| Name given to an unborn baby. |
| |

| WEEK 7 | |
|----------------|--|
| 1. motif | An idea or theme that is frequently repeated |
| 2. refugee | A person who has been forced to migrate. |
| 3. stakeholder | A person or organisation with an interest in something. |
| 4. composition | The way elements of artwork are arranged or combined . |
| 5. stewardship | To look after the world and each other. |
| 6. faith | Having trust in someone. |
| 7. prejudice | A preconceived opinion not based on reason or experience. |
| 8. corrosive | Destroys living tissue such as skin and eyes. |
| 9. culture | Ideas, customs and social behaviour of a group of people. |
| 10. ensemble | A musical group e.g. orchestra, brass band, choir. |
| | |

WEEK 9

| 1. soliloquy | When a character speaks directly to the audience. |
|---------------|--|
| 2. Kingdom | An area ruled by a monarch (King or Queen). |
| 3. tribe | Group of people who live and work together in a shared area. |
| 4. uterus | Where a baby grows for 9 months. |
| 5. systemic | Implies problems are rooted in the way systems are set up. |
| 6. evaluation | Making a judgement about something. |
| 7. migration | Moving from one place to another to live |
| 8. monologue | One person delivering a speech or their thoughts to the audience. |
| 9. intonation | Variation of spoken pitch. |
| 10. texture | The feel, appearance , or consistency of a surface. |

WEEK 10

| oxymoron | Combines contradictory words with opposite meanings. |
|---------------|--|
| elegy | Form of poetry about the death of its subject. |
| refugee | A person forced to leave their country to escape war or disaster. |
| communism | Ideology that believes in no private property. |
| sacraments | Outward signs of faith. |
| denominator | The number below the line in a fraction; a divisor. |
| couplet | A pair of rhyming lines which follow on from one another. |
| perpendicular | A straight line at an angle of 90 degrees to a given line/surface. |
| organism | An individual animal, plant or single celled life form. |
| source | The start of a river. |

WEEK 12

| plosive | 'b' , 'p' 't' and 'd' sounds for harsh, aggressive , or shocking effect. |
|--------------|--|
| ambiguity | More than one possible meaning and it's unclear which is correct. |
| scale | The size or level of something. |
| mutiny | A rebellion against senior officer. |
| eucharist | Bread and wine ceremony enacting Jesus' last meal. |
| Trade Union | Organisation that represents workers. |
| respiration | The action of breathing . |
| dodecahedron | A 12-sided shape. |
| | |
| tectonic | To do with the movement of the earth's surface. |

WEEK 11 antithesis Placing contrasting ideas together. quatrain 4-line stanza. abdication Monarch leaving the throne. Rules governing a country. constitution baptism Ceremony to wash away sins. An angle that is less than 90 degrees. acute Something happens that is the **opposite** from what's irony expected. Side by side with the same **difference continuously** parallel between them. Not transparent. opaque hypothesis A proposed explanation.

WEEK 13 A repetition of **vowel** sounds. assonance A group of lines separated from others in a poem. stanza The feel, appearance or consistency of a texture surface/substance. republicanism Belief in a country with **no monarchy**. Repair relationships together. reconciliation reparations Compensation money. In order from **smallest to largest**. ascending descending In order from largest to smallest. atmospheric To do with the **air surrounding** the Earth. persona The **speaker** of the poem who is different from the writer.

| WEEK 2 | WEEK 3 | WEEK 4 | WEEK 5 | WEEK 6 |
|---------|---------|--------|---------|---------|
| 1. | 1. | 1. | 1. | 1. |
| 2. | 2. | 2. | 2. | 2. |
| 3. | 3. | 3. | 3. | 3. |
| 4. | 4. | 4. | 4. | 4. |
| 5. | 5. | 5. | 5. | 5. |
| 6. | 6. | 6. | 6. | 6. |
| 7. | 7. | 7. | 7. | 7. |
| 8. | 8. | 8. | 8. | 8. |
| 9. | 9. | 9. | 9. | 9. |
| 10. | 10. | 10. | 10. | 10. |
| | | | | |
| WEEK 7 | WEEK 8 | WEEK 9 | WEEK 10 | WEEK 11 |
| 1. | 1. | 1. | 1. | 1. |
| 2. | 2. | 2. | 2. | 2. |
| 3. | 3. | 3. | 3. | 3. |
| 4. | 4. | 4. | 4. | 4. |
| 5. | 5. | 5. | 5. | 5. |
| 6. | 6. | 6. | 6. | 6. |
| 7. | 7. | 7. | 7. | 7. |
| 8. | 8. | 8. | 8. | 8. |
| 9. | 9. | 9. | 9. | 9. |
| 10. | 10. | 10. | 10. | 10. |
| | | | | |
| WEEK 12 | WEEK 13 | | NOTES | |
| 1. | 1. | | | |
| 2. | 2. | | | |
| 3. | 3. | | | |
| 4. | 4. | | | |
| 5. | 5. | | | |
| 6. | 6. | | | |
| 7. | 7. | | | |
| 8. | 8. | | | |
| 9. | 9. | | | |
| 10. | 10. | | | |

| Section 1 Ozymandias by Percy Shelley Written about the statue of the Egyptian Pharoah Ramesses II and how it wasn't preserved as intended. A criticism of leaders' egos from Shelley – often seen as veiled criticism of the British King George III The sonnet form is typical of a love poem and could mock the fact the leader was not as loved as he wanted. The lack of rhyme scheme could reflect the brokenness of the statue/his reputation. 'sneer of cold command' portrays how disliked he was by his people Hyperbole - 'King of Kings' emphasises arrogance and ego 'Nothing beside remains.' - short sentence reflects how abandoned the statue/legacy of the leader now is | Section 2 London by William Blake William Blake was a social reformer, angry at the fact the Church and government didn't do enough to support the needy and poor. This is written in first person and present tense to walk the reader through London as he saw it. The 'blackning Church' refers to the way Blake felt the Church itself was sinful for not being charitable enough. The blood running down palace walls is a link to the French revolution, and could be Blake's way of suggesting we needed a revolution in England. 'Chartered' refers to things being owned privately for profit; the repetition emphasises how so many wealthy people own things in London that should belong to the public e.g. the river Thames 'mind-forged manacles' is a metaphor for the mental entrapment Londoners felt and the way they believed they were trapped (or chained line with manacles) in a cycle of poverty 'marriage hearse' - this oxymoron shows how even positive events feel doomed | Section 3 Extract from The Prelude by William Wordsworth Wordsworth experienced a lot of grief in his life, including the loss of children. This poem is about the shift from childhood to adulthood and the realisation that there is negativity and danger in the world, even in things which seem exciting. Beautiful imagery of nature at the start reflects innocent/youthful joy - 'Small circles glittering idly in the moon' Volta/turning point - 'a huge peak, black and huge' - the dark imagery and repetition of huge reflects how suddenly even the beautiful lake seems dangerous (a metaphor for life/adulthood) The repetition of 'no' linked to positive images e.g. 'no pleasant images of trees' reflects how the speaker's mindset has been altered and his realisations about life and its dangers are 'a trouble' to his 'dreams'. |
|---|--|--|
| Section 4 My Last Duchess by Robert Browning This is written as a dramatic monologue in the voice of the Duke of Ferrara, who it was believed poisoned his wife. Browning had to elope with his own wife as her father disapproved of their marriage, and we could see the poem as a criticism of misogyny as it portrays the Duke as a arrogant, unlikeable figure. The speaker's tone is very arrogant – he asks many rhetorical questions of the messenger sent from his new prospective wife's family but we never hear an answer e.g. 'Will't please you sit and look at her?' The metaphor of his name as a 'gift of nine hundred years' also reflects his arrogance and the way he felt his wife was ungrateful. 'I gave commands; then all smiles stopped together' is an allusion to the murder of his wife – again this shows his arrogance. 'Neptune taming a seahorse' could be seen as a metaphor for how he feels a God-like importance over women and wants to 'tame'/control them – it also suggests the cycle of violence with his old wife may continue with the new one | Section 5 Charge of the Light Brigade by Lord Alfred Tennyson Tennyson was the poet laureate and wrote this poem to commemorate the soldiers lost in the Battle of Balaclava during the Crimean War. As the Poet Laureate, he would have been expected to present the soldiers/war in a positive, glorified light, though he does briefly refer to the 'blunder' of a leader which led to the immense loss. The personification and Biblical allusions in 'Into the jaws of Death, into the mouth of Hell' reflect the intense fear and suffering experienced by the soldiers. The repetition of six hundred continually reinforces the huge amount of life lost. The rhetorical question 'When can their glory fade?' and repetition of 'honour' in the final stanza emphasises the respect Tennyson feels we should have for these men. | Section 6 Exposure by Wilfred Owen Owen was a soldier in WW1 and died before the end of the war. He wanted to convey the reality and tragedy of war to those at home who mostly saw positive propaganda and did not know what was truly happening. Owen personifies the weather as an attacker e.g. 'the merciless iced east winds that knive us', to show how everything in war felt like it was against them, even nature itself. The repeated use of rhetorical questions e.g. 'Is it that we are dying?' reflects the confusion and despair of the soldiers, and the repetition of 'But nothing happens' reinforces how futile the war felt most days for the soldiers. The metaphors of the men as 'ghosts' and their eyes as 'ice' shows how dehumanised and destroyed the soldiers are. |

| Section 7 Kamikaze by Beatrice Garland Garland wrote this poem about the WW2 Kamikaze pilots from Japan. It was seen as a moral duty to one's country to complete these suicide missions in planes, mostly against American targets e.g. warships. Garland portrays the devastating impact it had on soldiers and families if anybody failed to complete their mission: they would be ostracised and seen effectively as traitors. Contrast between beautiful natural imagery which we can imagine (and the speaker does) made the pilot want to turn back and live, and sibilance ('bellies swivelled towards the sun') and darkness (the tuna) as the target draws closer and he feels fear of death. Simile 'like bunting' reflects the childish joy of e.g. parties remembered by the pilot. Final line – the harsh tone of this encapsulates the harsh manner in which 'failed' pilots were treated - 'he must have wondered which had been the better way to die' - coming hade alive will a materbarical death. The madel work | Section 8 Bayonet Charge by Ted Hughes Hughes wrote this poem about WW1, in which Hughes' father fought. Even hearing of the memories second hand, Hughes has reported feeling 'fairly tortured'. He wanted to convey the damage caused by the war to those who survived. The poem beginning in media res (in the middle of action) 'suddenly he awoke and was running' reflects the chaos and confusion of war. The simile 'numb as a smashed arm' to describe his rifle reflects the dehumanisation of the soldiers and also the severe violence they experience. In the middle of the poem/action, the moment of pause and the rhetorical question emphasises how futile the war feels for the soldier - 'In what cold clockworkwas he the hand pointing at that second?' - he is questioning why he is even there. 'His terror's touchy dynamite' in the last line reflects how the soldier is so dehumanised he himself feels like a weapon. | <u>Section 9</u> Remains by Simon Armitage Simon Armitage interviewed several soldiers, mainly from the Gulf war, and made a documentary alongside this poem and some others he wrote about war. It conveys the mental damage (e.g. the PTSD suffered by the soldier in the poem) war causes to soldiers which they are often not provided adequate support for. The conversational, casual tone reflects how the soldiers are desensitised to the violence of war e.g. 'three of a kind, all letting fly' / 'tosses his guts'- violence is minimised by the soldiers and not seen as severe. 'I see every round as it rips through his life' - the verb rips emphasises the extreme violence used and the way the soldiers are accustomed to it. 'I blink/and he bursts' - this enjambment and violent verb reflect the serious impact of the flashbacks the soldier has later; also the use of present tense e.g. 'he's here in my head' shows how he cannot escape the trauma. |
|---|--|---|
| back alive was still a metaphorical death. The modal verb 'must' also reinforces how his daughter did not speak to him about it as their relationship was destroyed. | | |
| Section 10 Poppies by Jane Weir Weir wrote this poem to illustrate the suffering of the families of soldiers which again is often not portrayed in the media. The contrast between the domestic imagery and the violent imagery emphasise the shocking change that has happened for the soldier and his mother – we see the deep, soft love and how it has been interrupted by violence - '1 pinned one onto your lapel, crimped petals, spasms of paper red' - the noun spasms also emphasises pain. 'All my words flattened, rolled, turned into felt, slowly melting' - the enjambment reflects the mental breakdown of the mother as the son leaves her for war, along with the metaphor of her words as 'melting' - nothing feels solid for her anymore. Towards the end the mother goes out in the cold without a coat, reflecting the impact of the loss of her son on her emotionally. The final line reflects her desperation for the son of childhood to return - '1 listened, hoping to hear your playground voice catching on the wind.' | Section 11 War Photographer by Carol Ann Duffy Duffy was inspired by a war photographer friend of hers to write this poem about the impact of war on those who witness it or are involved in it in a non-combat way. It also conveys the indifference many people not involved have towards war. In the poem the photographer seems to have helped to end the life of a dying woman in extreme pain and is traumatised by this, along with other experiences he has had. There is an ongoing contrast reflected between the serious attitude the photographer has and the trauma he has experienced compared with the way others view the war from afar e.g. he is shown as reverent & respectful through the simile -'as though he is a priest' whereas 'reader's eyeballs prick with tears between the bath and pre-lunch beers' - this juxtaposition and rhyming reflects how little thought/time people give to faraway wars. Language from the semantic field of death and pain e.g. 'A stranger's features faintly start to twist before his eyes, a half-formed ghost' reflects how haunted and damaged he is by his experiences. | Section 12 Checking Out Me History by John Agard Agard was born in Guyana in the Caribbean but moved to the UK later. He wrote this poem as a criticism of the British school system and the way it focuses mostly on white history through a white lens and often erases black history in favour of less important content. 'Dem tell me' – repetition reflects his frustration and the 'otherness' he feels 'they' (teachers? Society) make him feel. Use of dialect reflects pride in his ancestry. Italics v mocking rhyme highlights the significance and importance of the incredible black figures compared with the insignificance/childishness of some of the other things we are taught in school Carving out reflects how challenging it is for Agard to find out more about his history/identity; it also reflects purpose and permanence - if something is carved it cannot be erased. |

| DAA CYCLE 3 Knowledge Organiser | SUBJECT MATHS | TOPIC(S) | EY MATHS FACTS | YEAR GROUP 9 |
|--|--|---|------------------------------|--|
| <u>Sections 1 Laws of</u> Indices (Powers) | Section 2 Expar | iding brackets | <u>5</u> | Section 3 Area of a sector |
| $x^a \times x^b = x^{a+b} \qquad x^{-2} = \frac{1}{n^2}$ | Use the grid me 4(x + 2): | | $(x + 2) = \frac{4x + 8}{2}$ | The formula to calculate the sector area is $\frac{angle}{360} \propto \pi r^2$ |
| $x^{a} \div x^{b} = x^{a-b} \qquad x^{\frac{1}{2}} = \sqrt{x}$ $(x^{a})^{b} = x^{a \times b} \qquad x^{\frac{1}{3}} = \sqrt[3]{x}$ | | 4x +8 | 1 | Calculate the area of this sector which has 60° angle to one decimal place. |
| $x^0 = 1$ | (x + a)(x + b): | × x x x ² | + a + ax | 4 cm → |
| $x^{-1} = \frac{1}{n}$ | (x + a)(x + b) = <u>x</u> | $\begin{array}{ c c } + b & +bx \\ \hline + ax + bx + at \\ \hline \end{array}$ | + ab | 60° |
| Section 4 Area of a circle | _ | | | 60% is one sixth of a full ture (260%) |
| $I = \pi r^2$ is the formula for inding the area of a circle. π is a constant and r is the radius of the circle. | <u>Section 5 Factor</u> Look for the HCI expression with | F of all terms, | | 60° is one sixth of a full turn (360°). The sector is $\frac{1}{6}$ of the full area. |
| = 3·142 d = 40 | $12x^2 - 18xy \rightarrow H$ | | | Remember the area of a circle = πr^2 |
| $r = 40 \div 2$ radius = 20 cm $A = \pi r^2$ | For quadratic ex <i>x² + bx + c</i> , find f b: | • | | The sector area is: $rac{1}{6}	imes\pi	imes4^2=8.4~{ m cm}^2$ |
| $\pi \times r^2 = 3.142 \times 2$ = 1256.8 | 0 ² For example as 1 and 2 are fa 3. | x ² + 3x + 2 = <u>(x</u> ictors of 2 tha | | |
| Area = 1260 cm ² | É. | | | |
| | | 9 | | |

Section 6 Plotting Graphs/Functions

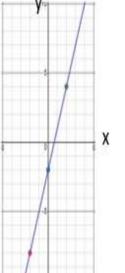
The function of a straight line is y = mx + c, where m is gradient, and is the intercept.

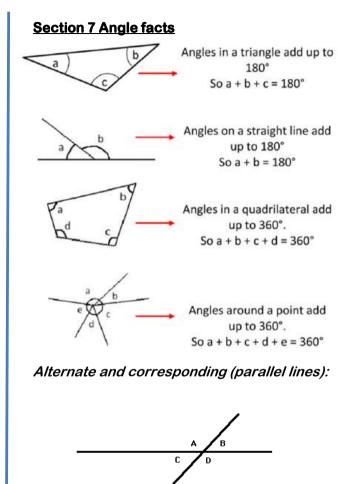
To plot the function, substitute at least 3 values of x into the function, then plot the generated coordinates.

If x = -2, $y = 3 \times -2 - 2 = -8$ (-2, -8) If x = 0, $y = 3 \times 0 - 2 = -2$ (0, -2) If x = 2, $y = 3 \times 2 - 2 = 4$ (2, 4)

These points are then plotted, with a straight line drawn:

These points are then plotted, with a straight line drawn:





G

Alternate Interior Angles:

C = F, D = E

Section 8 Solving Inequalities

This method is used for equations and inequalities:

| Solve $4x + 2 = 2x - 6$ | Solve $3p - 5 > 13$ |
|---|-------------------------|
| Subtract 2x: | Add 5: |
| 4x - 2x + 2 = 2x - 6 - 2x | 3p - 5 + 5 > 13 + 5 |
| 2x + 2 = -6 Subtract 2: | 3p > 18 Divide by 3: |
| 2x + 2 - 2 = -6 - 2 | 3p 18 |
| 2x = -8 | 3 3 |
| Divide by 2: 2x -8 | $\frac{p > 6}{p}$ |
| $\frac{\frac{2x}{2}}{\frac{x}{2}} = \frac{-3}{2}$ | |

Section 9 Angles in polygons

Polygon – 'many angles' 2D shape, straight sides.

Regular polygons - equal length sides, equal angles

Interior angle + exterior angle = 180°

Exterior angle = 360 ÷ n (where n is the number of sides)

Sum of interior angles = $(n-2) \times 180$

| | | Exterior Angle | Interior Angle | |
|-------|--------------|-------------------|-------------------|------------------------|
| Sides | Polygon name | (regular polygon) | (regular polygon) | Sum of Interior Angles |
| 3 | Triangle | 120 | 60 | 180 |
| 4 | Square | 90 | 90 | 360 |
| 5 | Pentagon | 72 | 108 | 540 |
| 6 | Hexagon | 60 | 120 | 720 |
| 7 | Heptagon | 51.4 | 128.6 | 900 |
| 8 | Octagon | 45 | 135 | 1080 |
| 9 | Nonagon | 40 | 140 | 1260 |
| 10 | Decagon | 36 | 144 | 1440 |
| 11 | Hendecagon | 32.7 | 147.3 | 1620 |
| 12 | Dodecagon | 30 | 150 | 1800 |

Alternate Exterior Angles:

A = H, B = G

Corresponding Angles: A = E, B = F, C = G, D = H

| DAA CYCLE 3 Knowledge Organiser | SUBJECT MATHS TOPIC(S) KEY MATHS F | ACTS | YEAR GROUP 9 |
|---|--|---|--|
| <u>Section 10 Simultaneous</u> Equations | Section 11 Similarity | <u>Section 12 Non - Linear gr</u> | aphs |
| To solve simultaneous equations, you need to eliminate one of the unknowns either by adding the two equations or subtracting one equations from the other. For example, 3a + 2b = 17 3a - 2b = 60 | If one shape is similar to another, then: x is the linear scale factor x ² is the area scale factor x ³ is the volume scale factor The angles in similar shapes are exactly the same. | $y = x^{2}$ $y = x^{3}$ $y = x^{3}$ $y = x^{3}$ $y = x^{3} + 1$ $y = x^{3} + 1$ | Beciprocal $x = \frac{1}{x}$ $x = \frac{1}{x}$ |
| To <u>eliminate</u> the b's, you add the two equations giving you 11a = 77 so a = 7 Substitute into the first | Section 13 Fractions Multiplying fractions Multiply the numerators. Multiply the denominators. Write the result as a fraction: | Section 14 Quadratic Grap Draw the graph of $y = x^2$ for | |
| Substitute into the first equation | $\frac{7}{9} \times \frac{6}{11} = \frac{42}{99} = \frac{14}{33}$ | Draw a table of values as b | elow |
| 3 x 7 + 2b = 17 21 + 2b = 17 | Dividing fractions | x -3 -2 -1 0 y -3 × -3 -2 × -2 -1 × -1 0 × | |
| 2b = -4 b = -2 Check: 8 x 7 -2 x-2 56 + 4 = 60 | Find the reciprocal of the divisor (flip). Now multiply the two resultant fractions. $\frac{4}{13} \div \frac{3}{5} = \frac{4}{13} \times \frac{5}{3} = \frac{20}{39}$ | Then plot the graph | y 9 |
| | Comparing fractions Re-write the fractions with common denominators. Compare the numerators. $\frac{3}{5} \text{ or } \frac{4}{7} \rightarrow \frac{3 \times 7}{5 \times 7} \text{ or } \frac{4 \times 5}{7 \times 5} \rightarrow \frac{21}{35} > \frac{20}{35} \text{ so } \frac{3}{5} > \frac{4}{7}$ | | 6 5 4 3 2 1 |
| | 11 | I | -3 -2 -1 1 2 3 |

_

| Forming lons BOX 1 | | | | Covalent b | onds <u>BOX </u> | 5 | | |
|-------------------------------------|---|--|--|---|---|----------------|---|----------------------------|
| lons are charged à do r | ot have equ | al numbers of protons and ele | ectrons | Form betw | een non-m | netals | | |
| - | - | s to have a full outer shell | | Atoms sha | re pairs of | electrons to | o get a full outer shell | |
| Cation (+ | ve) | Anion (- | ve) | Exam | | Formula | Structure | Dot and cross diagram |
| A positively charged io | n | A negatively charged ic | on | Hydrogen | | H₂ | 11 11 | нен |
| Metal atoms lose elect | rons | Non-metal atoms gain | electrons | | | | H-H | нен |
| Group 1 metals lose 1 | electron to fo | | | Oxygen | | O ₂ | 0=0 | ()) |
| ions with +1 charge | | form ions with a -2 cha | _ | | | | 0-0 | |
| Na+, K+, H+, Ca2+, Mg2+, | | F ⁻ , Cl ⁻ , O ²⁻ , OH ⁻ , CO ₃ ²⁻ , N | 10 ₃ ²⁻ | Water | | H₂O | <i>,</i> 0、 | |
| lonic compounds | BOX 2 | | | | | | н⁄ `н | (н) (н) |
| When two or more ion | | | | N <i>A</i> - 41 | | CU | | |
| Form between a metal | | | | Methane | | CH₄ | Η. | (н) |
| Ionic bond | | charged ions attract | raction | | | | н—с́—н н | H C H |
| | Electrostati | | | | | | | |
| | | d [Cl] ⁻ attract to form sodium | | Giant covo | opt struct | | | |
| | | -metal (non-metal ending cha | | Giant covalent structures BOX 6 Diamond Each carbon atom forms 4 covalent bonds | | | | |
| | Magnesium + oxygen à magnesium oxi de, MgO Metal + non-metal + oxygen (non-metal ending changes | | Diamond | Does not conduct electricity à no free electrons High melting and boiling point à many strong covalent bonds require | | | trong | |
| Metal + non-met to -ate) | | -metal + oxygen (non-metal e | tal + oxygen (non-metal ending changes | | | | | |
| - | , | arbon + oxygen à calcium carb | CoCo. | | a huge amount of energy to break | | | |
| l | Calcium + G | · (· ····)- | onate, caco ₃ | Graphite Each carbon atoms forms 3 covalent bonds | | | | 5 |
| | | | | | Used as a lubricant à layers of hexagonal rings can slide Conducts electricity à free electrons can move | | | |
| | | | | | | | | |
| | sodium | ion, chloride ion, | | High melting and boiling point à many strong covalent bon | | | ng covalent bonds requir | |
| Properties of ionic com | Na* [2 | ,8] * cr [2,8,8]" BOX 3 | | | | | nergy to break | |
| High melting and boili | - | Due to strong electrostatic for | | Properties | of metallio | bonding B | OX 7 | |
| | | - | | High melti | ng and boi | ling points | | ostatic forces à require a |
| Conduct electricity | | When molten or in aqueous so | olution as ions | | | | lot of energy to brea | |
| | - | are free to move | | Conduct el | ectricity | | Delocalised electron | s are free to move |
| Metallic <u>bonding_BOX</u> | | | | | | | fixed cation | |
| Strong attraction betw | een positive | metal ions and a "sea" of delo | calised electrons | | | 6 | | |
| Delocalised electrons | Electrons i | n the outer shell of metal ator | ms are free to | | | (| $\underline{\oplus} \underline{\oplus} \underline{\oplus} \underline{\oplus}$ | |
| | move thro | ugh the whole structure | gh the whole structure | | | (| | |
| | | | | | | (| $\oplus \oplus \oplus \oplus$ | |
| | | | | | | | sea of electrons | |
| Metal alloy | A mixture | of metals | | | | | | |

SUBJECT SCIENCE

TOPIC(S) Biology B3 Infection and response

| Diseases | | Responsible for causing ill health | | | | |
|---------------------------|------------------|--|--|---|--|--|
| Communica ble ease | dis- | - Can spread f. om person to person or between animals and people e.eg. Measles, malaria | | | | |
| Non-communic | able | | | | | |
| disease | | cancer and coronary | / heart disease | | | |
| Pathogens | | Microorganisms that | t cause infectious diseases | | | |
| Microorganism | s | Viruses, bacteria, pr | otists or fungi | | | |
| How they sprea | ad | Direct contact, wate | er or air | | | |
| Bacterial disea | ses | | | | | |
| Bacterial cells | Very | small 1/100th of norm | al body cells | | | |
| | Repro | duce inside the body, | produce toxins that damage (| cells and tissues | | |
| Salmonella | | , cramp, vomiting, noea. | Food prepared in unhygien- ic conditions or not cooked properly. | Improve food hygiene, wash hands, cook food thoroughly. | | |
| Viral disease | | 3 | | | | |
| Virus | Not ce | lls, very small 1/100th | of a bacterial cell | | | |
| | | duce rapidly in the boo , cell damage makes | | nany copies. Cells burst releasin | | |
| Tobacco mo- saic virus | Mosai | c pattern on leaves. | Enters via wounds in epi- dermis caused by pests. | Remove infected leaves and control pests that damage the | | |
| Fungal dise ase | | | | | | |
| Fungi | Some | are single celled. Othe | er have a body made up of hyp | hae (thread structures) | | |
| | Hypha | e can grow and penet | rate human skin and surface o | of plants | | |
| Rose black spot | Purple leaves | black spots on | Spores carried via wind or water. | Remove infected leaves. Sprawith fungicide. | | |
| Protist disease | | | | | | |
| Protist | Most a | re single celled. Some | e are parasites which live on or | inside other organisms. | | |
| Malaria | Recurr | ent fever. | By a vector carries the pro- tist(mosquitoes). | Prevent breeding of mosqui- toes. Use of nets to prevent | | |

| Human defer | ice systems | | | | |
|----------------------|---|--|--|--|--|
| Nose | Nasal hairs sticky mu | Nasal hairs sticky mucus cilia prevent pathogens entering through the nostrils. | | | |
| Trachea | Lined with mucus to be swallowed. | trap dust and pathogens. Cilia move mucus upwards to | | | |
| Stomach | Stomach acid (pH1) | kills most ingested pathogens. | | | |
| Skin | Hard to penetrate, g | glands secrete oil which kill microbes | | | |
| White blood cells | Help defend against antibodies | pathogens by: phagocytosis, producing antitoxins and | | | |
| Vaccination- | dead of weakened ve | rsion of a disease | | | |
| 1st infection | White blood cells blood. | detect pathogens in vaccine. Antibodies released into | | | |
| Re-infection | White blood cells er amounts. | detect pathogens. Antibodies produced faster and in larg- | | | |
| Antibiotics a | and painkillers | | | | |
| Antibiotics | e.g. penicillin | Kill infective bacteria inside the body. Specific bacterial infections require specific antibiotics. | | | |
| Painkillers | e.g. aspirin, para- cetamol | Drugs that are used to treat the symptoms of a disease. They do not kill pathogens | | | |
| Problems | ria that are resistant | iotics has led to the emergence of strains of some bacte- to antibiotics (superbugs) | | | |
| History of d | rugs | | | | |
| Digitalis | Extracted from fox | glove plants and used as a heart drug | | | |
| Aspirin | A painkiller and anti-inflammatory that was first found in willow bark | | | | |
| Penicillin | Discovered by Alexander Fleming from the Penicillium mould and used as an antibiotic | | | | |
| | | efore to check they are safe and effective. Drugs are test- works), Toxicity (checking its not poisonous) and dose. | | | |
| | B3 I | nfection & response | | | |

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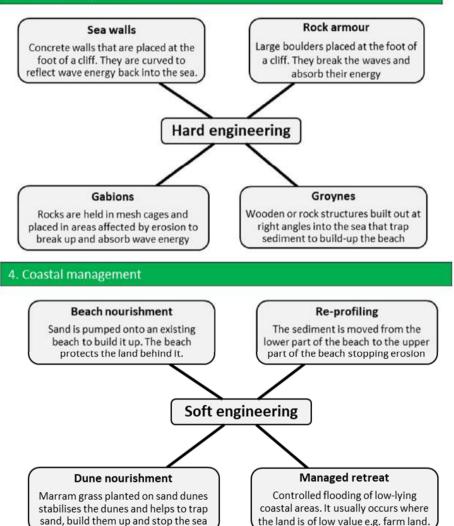
| 1. Early Atmosphere | | | 4. Greenhouse Effec | | |
|-----------------------------------|--------------------|---|---|--|--|
| Early atmos | sphere | How it changed | Greenhouse gases are carbon dioxide, methane, and water vapour. | | |
| Formed by volcanoes | | Water vapour condensed as Earth cooled | | rap heat so the temperature on Earth is high enough to live or | |
| | | | Sun emits sh | nort wave radiation that passes through the atmosphere. | |
| Large volumes of carb | on dioxide and | Carbon dioxide dissolved in oceans | | | |
| water vapour | | Carbon dioxide locked up in sedimentary rocks | Radiation reflected as long wave from the Earth's surface. | | |
| Very little oxygen | | Algae and plants photosynthesise increasing oxygen volumes | Long wave radiation absorbed by greenhouse gases and radiated i directions. | | |
| Small volumes ammonia and methane | | Nitrogen released as ammonia reacts | | | |
| | | with oxygen | Long wave r | adiation is thermal radiation, so results in warming of the | |
| 2. Atmosphere today | | | Earth's surfa | ace. This is the greenhouse effect . | |
| The same for 200 milli | ion years | | | | |
| Gas | Percentag | ge (%) | 5. Climate Change | | |
| Nitrogen | 78 | | Increasing the volumes of greenhouse gases affects the Earth's climate. | | |
| Oxygen | | | Average temperatures are increasing as human activity releases greenhouse | | |
| Argon | 0.9 | | gases. | | |
| Carbon dioxide and ot | hers 0.04 | | Burning fossil fuels | Release carbon dioxide and sulphur dioxide | |
| 3. Carbon Footprint | | | | Carbon dioxide is a greenhouse gas | |
| A measure of the amo product | ount of carbon dio | xide released over the lifetime of the | Deforestation | Cutting down trees means less carbon dioxide is removed due to photosynthesis | |
| Reduce carbon emissi | ons by using rene | wable energy or taxing those who produce | Agriculture | Farm animals and rice fields produce methane | |
| carbon dioxide | | | 6. Effects of pollution | on | |
| | | | Polar ice caps melt | Increased sea levels, loss of habitat and coastal erosion | |
| | | | Rainfall levels | Causes floods and droughts which impact food production | |
| | | | change | Storms are more severe | |
| | | | Temperature | Affect wild species of animals and plants | |
| | | | change | | |
| | | | Other gases are rele | ased when fossil fuels are burnt: | |
| | | | Sulphur dioxide | Causes acid rain, damages plants, buildings, and turns lakes | |
| | | | | acidic | |
| | | | Carbon monoxide | Toxic odourless gas, binds to haemoglobin | |
| | | | Carbon | Causes global dimming | |
| | | | particulates (soot) | | |
| | | | Nitrogen oxides | Causes respiratory problems and acid rain | |

9

| Abrasion (or corrasion) | The wearing away of cliffs by sediment flung by breaking waves. |
|----------------------------|--|
| Attrition | Erosion caused when rocks and boulders transported by waves bump into each other and break up into smaller pieces. |
| Deposition | Occurs when material being transported by the sea is dropped due to the sea losing energy. |
| Erosion | The wearing away and removal of material by a moving force, such as a breaking wave. |
| Hard engineering | The use of concrete and large artificial structures by civil engineers to defend land against natural erosion processes. |
| Hydraulic power | The process by which breaking waves compress pockets of air in cracks in a cliff. The pressure may cause the crack to widen, breaking off rock. |
| Longshore drift | The zigzag movement of sediment along a shore caused by waves going up the beach at an oblique angle(wash) and returning at right angles(backwash). This results in the gradual movement of beach materials along the coast. |
| Mass movement | The downhill movement of weathered material under the force of gravity. |
| Mechanical weathering | Weathering processes that cause physical disintegration or break up of exposed rock without any change in the chemical composition of the rock, for instance freeze thaw. |
| Soft engineering | Managing erosion by working with natural processes to help restore beaches and coastal ecosystems. |

| 2. Landforms | | | | | | | |
|---|--|--|--|--|--|--|--|
| Erosional | Depositional | | | | | | |
| Headlands & bays- Coastlines are made of different rocks which erode at different rates. Headlands have more resistant rock | Beaches- Made in sheltered areas by constructive waves that deposit eroded material that has been moved by waves | | | | | | |
| Cliff- Shaped through erosion and weathering. Soft rock erodes quickly forming sloping cliffs, hard rock is more resistant creating steep cliffs | Spits- A spit is an extended stretch of sand or shingle jutting out into the sea from the land. Spits occur when there is a change in the shape of the landscape or there is a river mouth. | | | | | | |
| Caves, arches, stacks and stumps- Found on headlands when lines of weakness are eroded and weathered | Bars- Sometimes a spit can grow across a bay and joins two headlands together. This landform is known as a bar. They can trap shallow lakes behind known as lagoons | | | | | | |

3. Coastal management



1. Fieldwork investigation sequence

| Aim | Introduction | Methodology | Data collection | Data presentation | Data analysis | Conclusion | Evaluation |
|-----------------------------|------------------------|-------------------------------------|---------------------------------|-------------------------------|---------------------|---|----------------------------------|
| A question or hypothesis | Outline the study area | How you will going to collect data? | Getting out and collecting data | Show the data in a visual way | Explaining the data | Answer the question you started with | How could the study be improved? |

| 2. Key terms | | 3. Methods of | data collection | | | | |
|--------------|--|-----------------|---|------------------------------------|-----------------------------------|--|--|
| Primary data | Information that you collect yourself, e.g. tallies, | Method | What is it | Positive | Negative | | |
| | measurements and photographs | Taking | Using a phone or camera to | Quick and easy way to | Links to location sometimes | | |
| Secondary | Information that someone else has previously | photographs | take a picture of a place | remember what a place looks | hard, does not measure | | |
| data | collected and made available e.g. on the internet | | | like | anything | | |
| Quantitative | Actual information that can be counted and used | Field sketches | Drawing key parts of a place | Ideas and thoughts captured | Can't easily go back and | | |
| data | in fieldwork. | | and annotating them | in the field. Links images with | repeat so needs to be done | | |
| Qualitative | Opinion-based information e.g. questionnaire. | | | words | there an then | | |
| data | | Environmental | Looking at an area using a | Quick and easy to complete | Relies on opinion which vary | | |
| Random | Selecting a person or thing at random to measure | surveys | set of criteria and applying a | and gives lots of data to be | from person to person | | |
| sampling | or question. at random. | | scale to them | graphed | | | |
| Systematic | Collecting data in an ordered or regular way, e.g. | Questionnaires | Asking people in the area | Gets lots of opinions of other | Not everyone want to answer | | |
| sampling | every 5 metres or every fifth person. | | their thoughts on a series of | people in the area | and you might get biased | | |
| Stratified | Dividing sampling into groups, e.g. three sites | | related questions | | opinions | | |
| sampling | from each section of coastline, or five people | Measuring | Using tape measures/ rulers | Give quantitative data that | Measurements are only as | | |
| | from each age range. | height & | to gather numerical data on | can be analysed later | accurate as the people taking | | |
| Mean | The total of all values that have been collected | distance | a feature | | them | | |
| | and then divide by the number of values. | 4. Data present | ation techniques | | | | |
| Median | Achieved by writing out all of the numbers that | | | er or continuous, often by time o | r distance e.g. showing how the | | |
| | have been collected in numerical order and find | | speed of a river changes with di | stance downstream | | | |
| | the middle number. | Bar chart | When data collected is independent | dent of each other, not continuou | s and therefore discrete e.g. the | | |
| Mode | the most commonly appearing value within the | | height of the beach at selected groynes | | | | |
| | data. | Pie chart | All pie charts represent a whole | amount that equals 100% e.g. the | e proportion of people in the | | |
| Risk | Process of working out the likelihood of harm or | | whole of Bradford in certain age | | | | |
| assessment | damage being caused by identified hazards when | Linking data | Adding data onto a map locates the data to the exact point is was collected. This makes analysing | | | | |
| | conducting fieldwork | to maps | the data more effective e.g. pro | portional circles to show the aver | age size of a pebble on different | | |
| | | | parts of the beach | | | | |

| 1 | Militarism | Nation | | Key Fa | cts 2 | 3 | | Alliances | Date | Alliance |
|--------------------------------|--|---|--|---|---|---------------|---|-------------------------------------|------------------------------------|----------------------------------|
| Key Term | Definition | Britain Larg | | Largest Navy. Largest empire. Experienced army | | Key | Гerm | Definition | 1879 | Dual Alliance |
| Arms Race | Competition to make the largest | | | Strong | military culture. Growing navy. Well-prepared | | Triple | Britain, France, | | (Germany and Austria-Hungary) |
| | military | | | Outdated army. Aging military leaders. Large army | | Ente | | Russia | | |
| Dreadnought | Largest battleship created (1906) | Russia La | | - | army by far. Outdated equipment and tactics. | Tripl | | Germany, Austria- Hungary, Italy | 1882 | Triple Alliance |
| Navy | Military used at sea | | Politically unstable | | Encii | cled | Surrounded by | 1894 | Franco-Russian Alliance (France | |
| Militarism | Desire to have the strongest military | America | erica Modern army. Unaffected by the war in Europe. Isolationist until 1917 | | | | other nations | | and Russia) | |
| | | | | | | Allia | nce | Agreement | 1907 | Triple Entente |
| 4 Crisis | Consequence | | 5 Imperialism | | | | | between nations | | |
| 1905 First Moroccan Crisis | Germany embarrassed at international conference, alliances strengthen | | Key Term | <u>ו</u> | Definition | 6 Nationalism | | | | |
| 1908 Austria | Pan-Slavism increases, Russia back down from | war | Crisis A time of difficulty or danger | | Ке | y Term | | Definitio | on | |
| Hungary annex | tension increases | | | | A time of difficulty or danger | | Weltpolitik Germany's desire to be a world powe | | orld power | |
| Bosnia | | Place in | | he Sun | Germany's desire to have an Empire | Pan | Slavism | The movement t | owards Sla | avic unity |
| 1911 Second Moroccan Crisis | Germany back down and lose colonies, tension at its highest point Annex | | Annex | | To take someone else's territory | Isola | tionism | Desire to take no | part in in | ternational affairs |
| 1912-1913 Balkan Wars | Austria-Hungary defeated, Ottomans pushed f Europe, nationalism increases | ustria-Hungary defeated, Ottomans pushed from Imper urope, nationalism increases | | sm | The desire to increase the size of an Empire | Nati | onalism | Zealous love of o countries | ne's coun | try over other |

| 7 | Stalemate | | | | | | | | |
|--------------------------------|------------------------------|--|---|---|--|--|--|--|--|
| Battle | Nations | Key Moments | Casualties | Consequence | | | | | |
| Marne Sept 1914 | Germany France | France stop the German Schlieffen Plan at the Marne river & defend Paris | 250,000 French 260,000 German | German advance stops Paris protected Stalemate begins | | | | | |
| Verdun Feb-Dec 1916 | France Germany | German general Falkenhayn begins attritional warfare | 355,000 German400,000 French | France defends VerdunBritain supports defenders | | | | | |
| Somme July-Nov 1916 | Britain France Germany | Heavy British losses in early stagesFirst use of tank | 420,000 British 440,000 German 200,000 French | Minimal territorial gain Germany eventually fall back to Hindenberg line | | | | | |
| Passchendaele July-Nov 1917 | Britain France Germany | Quagmire conditionsConstant heavy rain | 240-400,000 British and French 200-400,000 German | British victoryVery heavy lossesGermany badly weakened | | | | | |

| Nation | Culture 8 |
|---------|---|
| German | Strong military culture "Young" nation wanting to make history Ambitious leader Desire for power on a global stage |
| British | Largest global empire Historically dominant at sea Wealthy and proud of prominence |
| Slavic | Frustrated at Austro-Hungarian imperialism Nationalist secret societies |
| France | Historic rivalry with Germany from 1870 Wealthy Empire Historically powerful, but outdated against Germany |

| Key Term | 11 | Definition | |
|----------------|--|------------|--|
| Blockade | Cutting a location off from all supplies and trade | | |
| U-Boat | German submarine | | |
| Abdicate | Monarch gives up their title | | |
| Storm-Troopers | Elite German shock-troops | | |
| Mutiny | Soldiers refusing to follow commanders' orders | | |
| Armistice | Agreed ceasefire | | |
| Homefront | The civilian world during war | | |
| Morale | The overall mood of a group of people | | |

| 9 Key Term | Definition | |
|---------------|--|--|
| Stalemate | When neither army could make a decisive move | |
| Trench | Defensive ditch or fortification soldiers fought and lived in | |
| Artillery | Long-range explosive weapon | |
| Bombardment | Prolonged artillery attack on defences | |
| Shell-shock | PTSD for soldiers following bombardments | |
| Attrition | Grinding down the enemy | |
| Trench-foot | Foot condition soldiers contracted standing in muddy trenches | |
| Tank | Heavily armoured fighting vehicle | |
| Shrapnel | Metals shards that came from explosives, wounding soldiers | |
| No Man's Land | Area of land between two armies' trenches | |
| Outflank | Move around the enemy to attack from a better position | |

| Militarisi | he war start? n, Alliances, n, Nationalism |
|---|--|
| Homefront | Why did the stalemate happen? |
| Morale, propaganda, industry, supplies, blockades | Trenches, artillery, attrition, technology |
| | the war end? n joins, Naval |

Blockade, Failure of Ludendorff Offensive

GERMANY

FRANCE

| 10 | | |
|--|---|---|
| Event | Cause | Consequence |
| Jutland May – June 1916 | German fleet attempts to break British Naval dominance No clear victor German fleet destroyed, British fleet still dominant | Germans adopt U- Boat warfare German fleet destroyed Naval blockade |
| Russian | Russia suffers heavy casualties on | Russia leaves the war German troops |
| Revolution | Eastern Front Russian population starving and | redeployed to |
| February 1917 | angry Russian Tsar deeply unpopular | Western Front |
| America joins | Lusitania sunk May 1915 Zimmerman Telegram 1917 Submarine warfare damages US | USA commits 2 million |
| the war 1917 | ships | troops to war 90,000 tonnes of meat USA finances allies |
| Ludendorff | Germany has more troops on | Initial German victory Unsustainable |
| Offensive | Western Front America is joining war, German | German advance German troops cut off |
| March 1918 | chance of victory is shrinking | and captured |
| 100 Days | Germans are weakened and on | Significant allied |
| Offensive | brink of defeat Unified command under General | territory gains German army in full |
| August 1918 | Foch American troops join allies | retreat Allied victory close |
| Kaiser Wilhelm abdicates Nov 1918 | German civilian and military morale at breaking point Kiel mutiny shows military no longer follows Kaiser's orders German people starving from the blockade | Germany cannot continue with war Armistice signed November 1918 |



| oul from sin |
|----------------|
| from dead |
| |
| |
| nd human ng |
| ditional love |
| |

| 3 | Nature of God | Nature of God The Trinity Th | | Atheists argue, | | |
|---|--|---|--|---|--|--|
| • | Christians see God as: Just, graceful, omnipotent, | Christians see God in 3 ways: The Father in heaven, | 'I am always with you' | Freud argues God is only in the human mind | | |
| • | omnibenevolent, omniscient & merciful Christians pray to Him; ask for forgiveness | the Holy Spirit that inspires us & the son incarnate – Jesus | You'll receive power with the Holy Spirit' 'Obey God not men' | God is not real you can't see him / his power | | |

| 4 | The Creation Story | Problem of Evil | The Bible teaches, | Atheists argue, | |
|---|--|---|--|--|--|
| • | Book of Genesis says how God made the world; | If an all-loving God exists, how can He | 'God made the heavens & earth' | God should not make people suffer; | |
| ٠ | Day 1: God made light | allow humans | The Prodigal Son: A father | the street second | |
| ٠ | Day 2: heavens & earth | to suffer in the | forgives & welcomes his | If God created | |
| | Day 3: land & sea | world? Moral | son back after his losses | the world why | |
| ٠ | Day 4: Sun, Moon/Stars | (human) evil / | 200 24 44 47 9000 | is it not | |
| ٠ | Day 5: Fish & birds | natural | The Story of Job: life is a | perfect? Why | |
| ٠ | Day 6: Animals/humans | (beyond this) | test. Job loses his wealth & | are their | |
| ٠ | Day 7- God rested | Floods, famine, | family but God returns it | floods, | |
| • | We are stewards of the earth | diseases, war | testing his faith through suffering. | natural & moral evil? | |

| 5 | The Original Sin | | The Bible teaches, | | Influence |
|---|--|---|--|---|--|
| • | Adam & Eve ate from the forbidden tree inspired by Satan | • | 'Faith without good action is dead faith' | • | Wrongs can be made right with the |
| ٠ | Everyone sins no one is perfect (Adam/Eve) | 1 | | | right intention |
| : | Sin breaks God's Law causes separation Jesus' death atones (makes up) for our sins. | • | 'Christ died for our sins' | • | We must be careful with our freedom |

| 6. | Incarnation | The Bible teaches, | Some argue, |
|----|---|---|--|
| ÷ | God comes to the earth as a human Mary gives birth to a son through the Holy Spirit Christians appreciate God's link to humanity God is fully human & divine | 'The Word (God) became flesh' | Difficult to understand – how can an omnipotent God be human at the same time? Can be seen as a miracle |

| 7. | Crucifixion | | The Bible teaches, | | Some argue, |
|----|---|---|---------------------------|---|---|
| : | Jesus was nailed to a cross & killed He spoke to God saying he felt abandoned | • | 'Jesus died for our sins' | • | Crucifixion reminds Jesus' pain & sacrifice / moral evil |
| : | This act atoned for everyone's sins Jesus betrayed by Judas for 30 silver pieces | • | Jesus predicts own death | • | Important for atonement – Christians work to do no sin |

| 8. | Resurrection | | The Bible teaches, | | Influence |
|----|---|---|-----------------------------------|---|---------------------------------------|
| • | Jesus rose from the dead on the 3 rd day after his crucifixion | • | 'Jesus had risen' | • | Resurrection possible for everyone |
| ٠ | Jesus' risen body was different & glowed | • | 'The body raised is imperishable' | • | Shows God's power |

| 9. | 9. Salvation | | alvation The Bible teaches, | | Influence | | |
|----|---|---|-----------------------------|---|--|--|--|
| : | Salvation cannot be achieved if you sin We can achieve salvation by: following | • | 'Your word is a lamp' | : | Christians follow Jesus Salvation & grace must be | | |
| • | God's Law, Holy Spirit & His grace Jesus spent 40 days spreading God's word | • | 'Obey God rather than men' | | taught to others Some baptise themselves | | |

| 10. | Ascension | | The Bible teaches, | | Influence |
|-----|---|---|-------------------------------------|---|--|
| • | After 40 days of resurrection, Jesus rose up to heaven | • | 'He was lifted up' | • | Christians will not stray from God's path; Jesus in |
| • | Jesus told disciples to carry on spreading Christian teachings | • | 'A cloud took him from their sight' | | heaven comforts others |

| Afterlife & Judgement | | | The Bible teaches, | Influence |
|--|------------------------------|--|---|---|
| Afterlife, God will judge you fairly Heaven, Hell or Purgatory (in between) The point of life is to aim for heaven | | rgatory (in between) | The Parable of Sheep & Goat (evil) 'Do not judge for you will be judge | Give charity & share |
| 12. | Tip: Always unpack quotes | Where is it from? The Bible / Jesus teaches, | What does it mean? This means / Some Christians believe This influences, | Why is it important? This signifies / highlights, This supports / challenges, |

| Sunni 6 Articles of Faith | Tawhid, Prophets, Angels, Holy Books, Judgement, Al- Qadr (Predestination) | Usul ad-Din 5 Shia Roots Transcendent | Tawhid, Prophets, Justice, Leaders & Resurrection God is beyond space & time |
|---------------------------------|--|---|--|
| Akhirah | Belief in afterlife | Hadith | Written sayings of the prophet |
| Risalah | God communicates with us in 3 ways: Quran (Holy Books)/Prophets/Angels | Omnipotence Omniscience | All-powerful All-knowing – God is immanent (close to humans) |
| Just | God is fair | Impersonal | God is beyond human understanding |
| Barzakh | State of waiting after death | Sunnah | Written practices of the prophet |
| | How does something affect you, e there any beliefs, teachings & q | | |

| 3 | Nature of God – God is 'One' | The Quran teaches, | Influence | |
|---|--|---|--|--|
| • | Muslims see God as: Just, omnipotent, omniscient & immanent | • 'God is the light of the heavens & the earth' | Knowing God's different roles helps know his true powers | |
| • | Muslims pray to ask for guidance (God is merciful) God is the provider: food, water (rain) & more | 'God is closer to you than your jugular vein' Surah 112 – God is eternal | You should not compare God to other beings this is blasphemy | |

| 4 | Six Sunni Articles of Faith | nni Articles of Faith The Quran teaches, | |
|---|---|---|---|
| : | Tawhid- The oneness of God Angels; have different roles from God Holy Books - Qur'an, Torah, Gospel Prophets- God's messengers Day of Judgement – life after death Al-Qadr (predestination) – nothing happens without God's will. | Whoever disbelieves in God; His angels, Books, Messengers & the Last Day, has gone astray.' | Its about having good intentions as a Muslim; strengthens actions Tawhid unites all Muslims as you need this is part of your faith |

| 5 5 Roots of Usual ad-Din | | | The Quran teaches, | Influence | | |
|---------------------------|---|---|---|-----------|---|--|
| : | Tawhid Prophets – God's messengers Justice (Adalat); God is a fair planner | • | 'We made the imams & guided them' | • | Shia Muslims mainly trust in justice – God is | |
| : | Resurrection: judgement/afterlife Imamate (Leadership of Muslims after | | 'Enjoin good & forbid evil' | | the perfect of planners & fair | |
| | Muhammad) – 12 Imams related to the Prophet; Shias respect them as leaders that guide them. E.g. Imam Ali | • | 'God will not burden you beyond that which you cannot bear' | • | Imams clarify God's words | |

| 6 | Risalah – Angels | Risalah – Prophets | Risalah – Holy Books | Some argue, |
|---|--|--|--|--|
| : | Have no freewill, serve God Can't sin / made from light Jibril brings God's messages down to prophets Mikail sends down rain / food; for sustenance Angels guided the prophets | Messengers of God Muhammad/final prophet Quran revealed to him in the Cave of Hira by Jibril His Sunnah (actions) & Hadith (sayings) are followed today | Torah (Musa), Gospel (Isa), Hadith, Sunnah, Zabur (Dawud) – convey God's words Quran is the most authoritative book in Islam; its unchanged Quran guides Shariah laws; diet, marriage, wars | Humanity has evolved; Imams, tech; clarify God's laws, times change God is 'evolver' |
| : | 'Angels only have intellect'- Q 'He sends guardian angels'- Q | 'Obey God & His Messenger'- Q | 'There has come to you a light & clear book'- Q | You have evolved' - Q |

| 7 | Prophet Adam | Prophet Ibrahim | Prophet Muhammad | Some argue, |
|---|---|--|---|--|
| : | First man & prophet He taught mankind – is 'khalifah'- God's steward First to build the Kaaba Teaches anyone can wrong but God is merciful | Considered as 'hanif' – commit to worship 1 God Passed God's faith test on sacrificing his Son, Ismail Teaches Muslims to sacrifice things they love for God (Eid ul Adha) | Received the Quran, still in its original form today Preached monotheism despite rejection Established 5 pillars of Islam | There is no Islam without Muhammad Islam has been shaped by all prophets of the past. |
| • | 'Satan misled them'- Q | 'You aren't pious until you give that which you love' - Q | The messenger is an excellent model' - Q | 'Prophets are warmers of truth' - Q |

| | Al-Qadr | The Quran teaches, | Some argue, |
|--|---|--|--|
| This life is temporary & all actions will be judged After you die the state of waiting to be judged is called Barzakh Actions will be weighted on a scale for you to go heaven / hell; Akirah is eternal | Everything happens on Allah's will; life is planned Humans still need to make the right choices with their freewill & commit good Adam & Eve's wrongdoing acts a warning to remind us | 'Every atom's weight shall be rewarded or punished' 'Death will find you even in the highest of towers' 'There is not a leaf that falls without Him knowing' | Belief in the end of the world is also important: Imam Mahdi will come to earth & help Isa fight false prophets The living will die The Quran will be taken to paradise & no one will remember its words |

| unpack The Quran / This means / Some Muslims believe This signifies / highlight | | | 것 : 여러 여러 것 이 것 같은 것 같은 것 같은 것 같은 것 같이 있는 것 같은 것 같 | Why is it important? This signifies / highlights, This supports / challenges, |
|---|--|--|--|---|
|---|--|--|--|---|

| Conflict | Disagreement could cause fights | Justice | To put right injustices (be fair) |
|-----------------------|--|--------------------------------------|--|
| Pacifism | Belief all violence is wrong | Reconciliation | Making amends, build relations |
| Nuclear Deterrence | If both sides have nuclear bombs, you are putt off from attacking | Weapons of Mass Destruction (WMD) | Weapons that cause widespread damage like nuclear bombs |
| Terrorism | Violence to create fear | Diplomacy | Manage relations peacefully |
| Greed | Unreasonable desire / hunger | Retaliation | Revenge through harm |
| Holy war | A religious war | Just War | An acceptable war |

| 3 | Justice | Forgiveness | Scripture, | Some argue, |
|---|---|--|--|----------------------------------|
| • | Islam: Lesser Jihad is fought mainly against injustice & for fairness | Jesus taught to pray for enemies | 'Do not be the aggressors' – Q | War & killing is unnecessary |
| • | Christianity: wars maybe fought for the greater good | Reconciliation; during festivals | 'Love thy neighbor as yourself' '- B | |

| 4 | Peaceful protests | Reconciliation | Scripture, | Some argue, |
|---|--|---|--|--|
| : | Islam: fight for injustice, peaceful methods first Christianity: stand | Its about brining sides together to put | 'Hold tightly to the rope of God, do not become divided' – Q | Diplomacy saves lives |
| | united & peaceful in dark times – Civil Rights Movement used peace | issues right; Moses tried this | 'Blessed are the peacemakers' – B | The Prophet built relations with non-Muslims |

| 5 | Violent protests | Causes of War | Scripture, | Some argue, |
|---|--|---|--|---|
| | Islam: violence used to fight injustice of the oppressors Christianity: If diplomacy or peaceful methods fail | Greed, land, rights taken, self-defense Violence is a 'necessary evil' for peace | 'Fight the oppressors' – Q 'There is a time to love and a time to hate' – B | Islam: Lesser jihad is not as powerful as greater jihad taking the high peaceful path Quaker Christians always resort to peaceful ways |

| Unpack | Where is it from? | What does it mean? | Why is it important? |
|--------|-------------------|---------------------------------|-----------------------------|
| quotes | X teaches, | This means / Some Ms/Cs believe | This signifies / highlights |

| 6 | Terrorism | Retaliation | Scripture, | Some argue, |
|---|---|--|--|--|
| : | Serious bodily harm to intimidate Islam: innocents are killed, terrorists cherry-pick Quranic verses taking them out of context Christianity: Some misinterpret Jesus' stance against the government | Causes: fight against governments; political regimes, faith, revenge based on wars | 'To kill one is to kill all mankind' – Q 'Those who live by the sword die by the sword' – B | Blame religion for inspiring terrorists others think it is part of a cocktail; power, land |

| 7 | Just & Holy war | Holy War (2) | Scripture, | Some argue, |
|---|---|---|---|---|
| : | Just: Meet criteria to fight a war if: Holy: God sets rules to fight if: | Islam: during war, holy places | 'Fight in the way of God'-Q | Lesser jihad backs war to |
| : | If a war is winnable (less loss) It is fought against injustice Last resort, if diplomacy fails | & crops should not be destroyed • Protect civilians | • 'Prepare your minds for action' – B | protect faith if diplomacy fails • Jihad-struggle |

| 8 | Pacifism | Scripture, | Some argue, |
|---|--|---|---|
| | Pacifists will not engage in war; morally wrong | • 'Learn self-restraint'-Q | Lesser jihad backs war to protect faith if diplomacy fails |
| • | Islam: Greater Jihad should be the priority – develop your spirituality | 'Satan misled them'-Q | Jihad = struggle NOT war! Pacifists may be combat medics |
| • | Christianity: Quakers side with Jesus on love & forgiveness | 'Pray for your enemies & those who persecute you' – B | in war; like Desmond Doss |

| 9 | WMD: Nuclear Bombs | Victims | Scripture, | Some argue, |
|---|---|---|--|---|
| | WMD can destroy large areas, burn through skin in seconds, contaminate water, life Both religions condemn damage on this scale. | Christian Aid / Islamic Relief provides food parcel, medical huts for war victims | 'Whatever you spend, God will replace' – Q 'God loves a cheerful giver' – B | Having nuclear weapons can be good for a deterrence |

| 9.1 La familia | | |
|---------------------------------|---------------------------------------|--|
| El padre / la madre | Father / mother | |
| El padrastro / la madrastra | Step-father / step-mother | |
| El hermano / la hermana | Brother / sister | |
| El hermanastro / la hermanastra | Step-brother / step-sister | |
| El abuelo / la abuela | Grandfather / grandmother | |
| El bisabuelo / la bisabuela | Great grandfather / great grandmother | |
| El tío / la tía | Uncle / aunt | |
| El primo / la prima | Male cousin / female cousin | |
| El sobrino / la sobrina | Nephew / niece | |
| El marido / la mujer | Husband / wife | |
| El hijo / la hija | Son / daughter | |
| El nieto / la nieta | Grandson / granddaughter | |

| 9.2 Descriptions | | |
|--------------------------------|-----------------------------|--|
| Tiene los ojos / tiene el pelo | S/he haseyes / S/he hashair | |
| azules | blue | |
| grises | grey | |
| marrones | brown | |
| brillantes | bright | |
| grandes | big | |
| moreno | dark brown | |
| castaño | mid-brown (chestnut) | |
| rubio | blond | |
| largo | long | |
| corto | short | |
| liso | straight | |
| fino | fine | |
| ondulado | wavy | |
| de punta | spiky | |
| Es | S/he is | |
| alto/a | tall | |
| bajo/a | short | |
| delgado/a | thin | |
| gordito/a | chubby | |
| gordo/a | fat | |
| Lleva | S/he wears / has | |
| gafas | glasses | |
| barba / un bigote | a beard/a moustache | |

| 9.3 My favourite apps | | |
|--|---|--|
| Usopara | I use(in order) to | |
| Ver mis series favoritas | Watch my favourite series | |
| Organizar las salidas con mis amigos | Organise going out with my friends | |
| Controlar mi actividad física / las calorías | Monitor my physical activity / calorie intake | |
| Contactar con mi familia | Get in touch with my family | |
| Chatear con mis amigos | Chat with my friends | |
| La tengo desde hacemeses | I have had it formonths | |
| Es una aplicación buena para | It is a good app for | |
| Buscar y descargar música | Looking for and downloading music | |
| Pasar el tiempo / el rato | Passing the time | |
| Sacar / editar / personalizar fotos | Taking / editing / personalising photos | |
| Compartir / subir fotos | Sharing / uploading photos | |
| Estar en contacto | Keeping in contact | |
| Conocer a nueva gente | Meeting new people | |
| Subir y ver vídeos | Uploading and watching videos | |
| Chatear y mandar mensajes | Chatting and sending messages | |
| Soy / es adicto /a a | I am / s/he is addicted to | |
| Estoy enganchado/a | I am hooked on | |
| Está enganchado/a | S/he is hooked on | |
| Lo único malo es que | The only bad thing is that | |
| Te engancha | It gets you hooked | |
| No es / es | It isn't / It is | |
| Una red social | A social network | |
| Amplio/a | Expensive | |
| Cómodo / a | Comfortable | |
| Divertido/a | Fun | |
| Necesario/a | Necessary | |
| Peligroso/a | Dangerous | |
| Fácil de usar | Easy to use | |
| Gratis | Free | |
| Un canal de comunicación | A channel / means of communication | |
| Una pérdida de dinero | A waste of money | |

TOPIC(S)MI GENTE (MY PEOPLE)

| 9.4 ¿Qué estás haciendo? | |
|-------------------------------------|---------------------------------------|
| Estoy / Estás / está | I am / you are / s/he is |
| actualizando mi / tu / su página de | updating my / your / his/her Facebook |
| Facebook | page |
| editando mis / tus / sus fotos | editing my / your / his/her photos |
| escuchando música | listening to music |
| esperando a | waiting for |
| descansando | relaxing |
| pensando en salir | thinking of going out |
| repasando para un examen | revising for an exam |
| tomando el sol | sunbathing |
| haciendo footing | jogging |
| haciendo el vago | lazing about |
| leyendo | reading |
| viendo una peli | watching a film |

| 9.5 Leer es un placer | | |
|--------------------------|-----------------|--|
| Leo | I read | |
| Los blog | Blogs | |
| Los tebeos | Comics | |
| Los periódicos | Newspapers | |
| Las revistas | Magazines | |
| Las poesías | Poems | |
| Las novelas | Novels | |
| La historias de vampiros | Vampire stories | |
| Las biografías | Biographies | |

| 9.6 Leer es un placer | | |
|---|--|--|
| Leer en formato digital | Reading in digital format | |
| protege el planeta | protects the planet | |
| no malgasta papel | doesn't waste paper | |
| cansa la vista | tires your eyes | |
| depende de la energía eléctrica | it depends on electricity | |
| te permite llevar contigo miles de libros | allows you to take thousands of books with | |
| | you | |
| cuesta mucho menos | costs a lot less | |
| fastidia porque no hay numeración de | is annoying because there are no page | |
| páginas | numbers | |
| Los libros electrónicos / los e-books | Electronic books / e-books | |
| son fáciles de transportar | are easy to transport | |
| son más baratos | are cheaper | |
| no ocupan espacio | don't take up space | |

| 9.7 Leer es un placer | | |
|---------------------------------|-------------------------------------|--|
| Una desventaja es el de batería | One disadvantage is the battery use | |
| Me gusta / prefiero | I like / I prefer | |
| tocar las páginas | to touch the pages | |
| pasar las páginas a mano | to turn the pages by hand | |
| escribir anotaciones | to write notes | |
| leer horas y horas | to read for hours an hours | |
| Un ratón de biblioteca | A bookworm | |
| Un fan de manga | A manga fan | |
| Un libro tradicional | A traditional book | |
| Un libro de verdad | A real book | |

| 9.8 Relaciones | | |
|--------------------------------|-----------------------------------|--|
| (No) me llevo bien conporque | I (don't) get on well withbecause | |
| me apoya | s/he supports me | |
| me acepta como soy | s/he accepts me as I am | |
| nunca me critica | s/he never criticises me | |
| tenemos mucho en común | we have a lot in common | |
| Me divierto con | I have a good time with | |
| Me peleo con | I argue with | |
| Nos llevamos superbién | We get on really well | |
| Nos llevamos como perro y gato | We fight like cat and dog | |
| Nos divertimos siempre | We always have a good time | |

| 9.9 Relaciones | | |
|------------------------------|---------------------------------|--|
| Un buen amigo es alguien que | A good friend is someone who | |
| te apoya | supports you | |
| te escucha | listens to you | |
| te conoce bien | knows you well | |
| te acepta como eres | accepts you as you are | |
| te da consejos | gives you advice | |
| te hace reír | makes you laugh | |
| no te critica | doesn't criticise you | |
| nunca te juzga | never judges you | |
| Conocí a mi mejor amigo / a | I met my best friend | |
| Nos conocimos | We met / got to know each other | |
| Nos hicimos amigos | We became friends | |
| Nos hicimos novios | We started going out | |
| Convivimos | We lived together | |
| Nos casamos | We got married | |
| Nos gustan las mismas cosas | We like the same things | |

| 9.10 Photocard practice | | |
|-------------------------|-----------------------------|--|
| En la foto hay | In the photo there is / are | |
| Una familia | A family | |
| Un hombre | A man | |
| Una mujer | A women | |
| Una mesa | A table | |
| Unos edificios | Some building | |
| Está en | It is in | |
| Una ciudad | A city | |
| Un pueblo | A town / village | |
| Un colegio | A school | |
| La costa | On the coast | |
| En la sierra | In a mountain range | |
| Un campo | In a field | |
| Hace buen tiempo | It is good weather | |
| Hace mal tiempo | It is bad weather | |

| 9.11 Opinions | | |
|------------------|----------------------------|--|
| Me encanta(n) | I love | |
| Me gusta(n) | l like | |
| Me mola(n) | l like | |
| Me flipa(n) | I'm crazy about | |
| Me chifla(n) | I'm mad about | |
| Odio / detesto | I hate | |
| Le encanta(n) | S/he loves | |
| Le gusta(n) | S/he likes | |
| Le mola(n) | S/he likes | |
| Le flipa(n) | S/he is crazy about | |
| Le chifla(n) | S/he is mad about | |
| Odia / detesta | S/he hates | |
| Me parece que | It seems to me that | |
| Diría que | I would say that | |
| A mi modo de ver | In my opinion | |
| Creo que | I believe that | |
| Pienso que | I think that | |
| Según a mi | According to my | |
| Espero que sea | I hope that it is | |
| Espero que haya | I hope that there is / are | |

| 9.12 Writing prac | tice (essay phrases) |
|---------------------------|----------------------------|
| A mi modo de ver | In my opinion |
| Que yo sepa | As far as I know |
| Diría que | I would say that |
| Si tuviera la oportunidad | If I had the opportunity |
| Como puedes imaginar | As you can imagine |
| Suelo + infinitive | I usually |
| Siempre he pensado que | I have always thought that |
| Tengo que admitir que | I have to admit that |
| 9.13 VERB | S and TENSES |
| Juego | I play |
| Chateo | I chat |
| Veo | I watch |
| Escucho | I listen |
| Tengo | I have |
| Me gustaría + infinitive | I would like to |
| Quisiera + infinitive | I would like to |
| Leí | l read |
| Usé | I used |
| Fui | l went |
| Hablé | I spoke |
| Hice | I did |
| Monté | l rode |
| Jugué | I played |
| Vi | I watched |
| Salí | I went out |
| Nadé | l swam |
| Leí | l read |
| Escuché | I listended |
| Saque | I took |
| Mandé | l sent |
| Voy a leer | I am going to read |
| Voy a jugar | I am going to play |
| Voy a comprar | I am going to buy |
| Voy a tener | I am going to have |
| Voy a hacer | I am going to do / make |
| Va a jugar | He / she is going to play |
| Me gustaría hablar | I would like to talk |
| Me gustaría leer | I would like to read |
| Me gustaría jugar | I would like to play |

URDU

9.4 Important Verbs

mai gyaa/ee

ham ga-ay

mai jaataa/ee

hoon

ham jaatay hai<u>n</u>

mai nay

daykhaa

ham nay

daykhaa

mai daykhtaa/tee

hoon

ham daykhtay

hain Mai kartaa/ee

hoo

Mai nay keeya

Mai

karoonghaa/ee

I went (m/f)

We went

I go (m/f)

We go

l saw

We saw

I see

We see

I do

I did

I will do

TOPIC(S)

| 9.1 & 9.2 Customs & Festivals | | | | | |
|-------------------------------|--------------------------------------|------------------------|--|--|--|
| تقريب | event تقريب | | | | |
| مهمان نوازی | hospitality | Mehman nawaazi | | | |
| <i>ج</i> لوس | procession | jaloos | | | |
| يوم آزادی | independence day | Yowm Aazaadi | | | |
| عقيقه | child birth ceremony | Aqeeqah | | | |
| آتش بازى | fireworks | Aatash Baazi | | | |
| رسم حنا | henna ceremony | Rasm Hena | | | |
| شهنائی | wedding music | Shehnaee | | | |
| بارات | wedding procession | Bharaat | | | |
| وليمه | after wedding ceremony | Walima | | | |
| دعوت نامه | invitation | Dawat naama | | | |
| تلاوت قر آن پاک | recitation of Quran | Tilaawat Quran paak | | | |
| عيد ميلاد النبى | Eid Milad uNabi | Eid Milad un Nabi | | | |
| سحرى | pre-dawn meal before fasting | Sehri | | | |
| افطارى | meal at the time of breaking fast | Iftaari | | | |

| Ye | ar 9 Urdu: Cycl | e 3 | 9 |
|------------------------------------|-------------------------------------|---------------------------|----------------------------------|
| | s & Dislikes – pasand & r | | میں گیا / کٹی |
| 9.3 Likes | 1 c | | |
| بھے پندب۔ | mujhay <u></u> pasand hai | I like | ،م <u>ح</u> بر الق |
| بھے_ناپندہے۔ | mujhay naapasand hai | I dislike | میں جاتا /تی ہوں۔ |
| مجھ_ اتناپىندىنېيں ہے۔ | mujhay itnaa pasand nehi | I don't like that much | ہم جاتے ہیں۔ میں نے دیکھا |
| مجھ_ بہت پند ہے۔ | mujhay <u></u> bahut pasand hai | l like a lot | ہم نے دیکھا ہم نے دیکھا |
| مجھ_ سے نفرت ہے۔ | mujhay _ say naffrat hai | I hate | میں دیکھتا / تی |
| میں برداشت نہیں کر سکتا / سکتی۔ | mai barrdaasht nehi karsaktaa/ee | I can't stand | ہوں ہم دیکھتے ہیں بیر بی ت |
| مجھ_ دلچپ لگتا ہے۔ | mujhay dillchasp lagtaa hai. | l find interesting. | یں کر تا / تی ہوں میں نے کیا |
| مجھ_ کاشوق ہے۔ | mujhay kaa shawq hai. | I am interested in | میں کروں گا /گی |
| | | | |

Masculine and Feminine

In many languages, including Urdu, most nouns are considered to be either masculine or feminine. e.g. The Urdu word for chair (kurrsee) is considered to be a feminine word whereas the Urdu word for door (darrwaaza) is considered to me masculine. Adjectives used to describe nouns will agree with them e.g. peelee kurrsee (yellow chair) and peela darrwaaza (yellow door).

| S | 9.5 Days of the week | | | | | | |
|----------------|-------------------------|-----------|--|--|--|--|--|
| رن | din | day | | | | | |
| ہفتہ | haftaa | week | | | | | |
| پير/سوموار | peer / sawmwaar | Monday | | | | | |
| منگل | mangal | Tuesday | | | | | |
| بدھ | budh | Wednesday | | | | | |
| جمعرات | jumeraat | Thursday | | | | | |
| جمعه | juma | Friday | | | | | |
| ہفتہ /سنیچر | haftaa / sneechar | Saturday | | | | | |
| اتوار | itwaar | Sunday | | | | | |
| ہفتے کا اختتام | haftay kaa ikhtitaam | Weekend | | | | | |

Notes

 \mathbf{n} – an underlined \mathbf{n} is pronounced with a very soft *n* sound from the nose. It sounds like the letter *n* in the word u<u>n</u>cle or lo<u>ng</u>.

CaPiTaL LeTtErS – any Roman Urdu words with capital letters will be pronounced with a hard sound. e.g. D will be pronounced like a normal D in English. However, a d will be pronounced very softly with your tongue touching your front teeth. This is the same with *T* and *t*.

URDU

| | 9.6 Numbers - ghintee | | Year 9 Urdu: Cycle 3 | | | 9.9 Question words | | | 9.10 - Misc. | | | |
|--|--|--|---|--|--|--|--------------|--|--|--|----------------------------|--|
| ایک | 1 | Ayk | one/1 | Year | r 9 Urdu: Cy | cle 3 | کي؟ | kyaa? | What? | ملتاجلتا | Milta Julta | similar |
| 99 | ٢ | doe | two/2 | | 9.7 Colours - rang | | | Nyuu. | winde. | | | Sirindi |
| ليين | ٣ | teen | three/3 | | | | كتفي | kitnay? | How (many)? | مختلف | Mukhtalif | different |
| چار | ۴ | chaar | four/4 | يدايك ب- | yay ayk hai. | This is a | كون؟ | kaun? | Who? | الثا/ مخالف | Ulta / Makhalif | opposite |
| پایچ | ۵ | paanch | five/5 | IJК | kaalaa | black | | | | | | |
| d. | ۲ | chhay | six/6 | سفير | sufaid | white | کہاں؟ | kahaa <u>n</u> ? | Where? | جبتک | Jab tak | Until |
| سات | 4 | saat | seven/7 | | la al / averable | | كب؟ | kab? | When? | اس کے علاوہ | Is kay ilawa | Besides / apart |
| آڻھ | ۸ | aaTh | eight/8 | لال/ سرخ | laal / surrkh | red | ىس؟ | kiss? |)A/h:=h-2 | 1 0 2 2010 | is kay navra | from |
| نو | ٩ | nau | nine/9 | پيلا | peela | yellow | | KISS? | Which? | اس کے باوجو د | Is kay ba | despite this |
| د س | 1+ | dass | ten/10 | نيلا | neela | blue | کس کا / کی ؟ | kiss kaa/kee? | Whose? | | wajood | |
| ^ح گیارہ | 11 | gyaarah | eleven/11 | میز / _{مرا} | sabz / hra | green | | | | کے بچائے | kay bajaay | instead of |
| باره | 11 | baarah | twelve/12 | | - | | | | | ېد قشمتې | Bud gismati | Unfortunately |
| تيره | 10 | tayrah | thirteen/13 | نار نجی | naaranjee | orange | | | | بدسمي | | Uniortunately |
| چوده | 10 | chaudah | fourteen/14 | جامنی | jaamnee | purple | | | | اتفاقًا / اتفاق سے | Ittifaqan / ittifaq say | By chance |
| پندره سوله | 11 | pandrah | fifteen/15 | گلایی | ghulaabee | pink | | | | • | | |
| | | solah | sixteen/16 | <u>,</u> | | | | | | 9.11 – Tenses | | |
| | 17 | | /47 | 1# | hhoora | brown | | | | 9.11 – Tenses | | |
| ستر ہ اکٹرار د | 12 | satrah | seventeen/17 | بھورا پیار | bhoora | brown | | می ں نے کھیلا | | Mai nay khaylaa | ١ŗ | blayed |
| الخصاره | ١A | aThaarah | eighteen/18 | بھورا سليٹی | bhoora slayTee | brown grey | | میں نے کھیلا ماہ کھات | | Mai nay khaylaa | | |
| اٹھارہ انیس | 1A 19 | aThaarah unneess | eighteen/18 nineteen/19 | سلىچ | slayTee | grey | وں | میں نے کھیلا ہوں۔میں کھیلتی، | | | | played play |
| اٹھارہ انیس بیس | 1A 19 1* | aThaarah unneess beess | eighteen/18 nineteen/19 twenty/20 | سلىيى | slayTee 9.8 – Connective | grey s | | | میں کھیلتا | Mai nay khaylaa Mai khayltaa hoo / Mai | | |
| اٹھارہ انیس بیس | 1A 19 7+ 71 | aThaarah unneess beess ikkeess | eighteen/18 nineteen/19 twenty/20 twenty-one/21 | ^{سلی} ئ شایر | slayTee | grey | | می <u>ں نے کھیلا</u> ہوں۔میں کھیلتی; کھیلوں گا/گی | میں کھیلتا | Mai nay khaylaa Mai khayltaa hoo / Mai khayltee hoo Mai khayloongaa | | |
| اٹھارہ انیس بیس اکیس | 1A 19 1* | aThaarah unneess beess ikkeess baaeess | eighteen/18 nineteen/19 twenty/20 twenty-one/21 twenty-two/22 | ^{سلی} ئ شایر | slayTee 9.8 – Connective | grey s | | کی کھیلوں گا / گی | میں کھیلتا میں | Mai nay khaylaa Mai khayltaa hoo / Mai khayltee hoo Mai khayloongaa Mai khayloongee | I w | play |
| انگارہ ابیں بیں بیس شکیر | 1A 19 7• 71 77 | aThaarah unneess beess ikkeess baaeess taeess | eighteen/18 nineteen/19 twenty/20 twenty-one/21 twenty-two/22 twenty-three/23 | سلیٹی شاید گویاکہ | slayTee 9.8 – Connective Shayad Goya kay | grey Probably As If / whether | | کی کھیلوں گا / گی | میں کھیلتا میں | Mai nay khaylaa Mai khayltaa hoo / Mai khayltee hoo Mai khayloongaa | | play |
| انگارہ ایس بیس بیس پومبیں | 1A 19 7+ 71 77 77 | aThaarah unneess beess ikkeess baaeess taeess chaubeess | eighteen/18 nineteen/19 twenty/20 twenty-one/21 twenty-two/22 twenty-three/23 twenty-four/24 | ^{سلی} ئ شایر | slayTee 9.8 – Connective Shayad | grey s Probably | | | میں کھیلتا میں | Mai nay khaylaa Mai khayltaa hoo / Mai khayltee hoo Mai khayloongaa Mai khayloongee mujhay khaylna chahiyay thaa | | play vill play |
| انگارہ ابیں بیں بیس شکیر | 1A 19 7• 71 77 77 | aThaarah unneess beess ikkeess baaeess taeess | eighteen/18 nineteen/19 twenty/20 twenty-one/21 twenty-two/22 twenty-three/23 | سلیٹی شاید گویاکہ پہلے | slayTee 9.8 – Connective Shayad Goya kay | grey Probably As If / whether | | ، کھیلوں گا / گی بے کھیلناچا ہے تھا | یں کھیلتا میر <u>مج</u> | Mai nay khaylaa Mai khayltaa hoo / Mai khayltee hoo Mai khayloongaa Mai khayloongee mujhay khaylna chahiyay thaa Mai karnay walaa | l w | play vill play |
| الخبارہ ایس بیل بیل چوپیں چوپیں | 1A 19 7+ 71 77 76 70 | aThaarah unneess beess ikkeess baaeess taeess chaubeess pacheess | eighteen/18 nineteen/19 twenty/20 twenty-one/21 twenty-two/22 twenty-three/23 twenty-four/24 twenty-five/25 twenty-six/26 | سلیٹی شاید گویاکہ پہلے جب تک | slayTee 9.8 – Connective Shayad Goya kay Pehlay Jab tak | grey Probably As If / whether Before Until | | کھیلوں گا/گی سے کھیلناچا ہیے تھا نے والا / والی ہوا | میں کھیلتا میر <u>بح</u> | Mai nay khaylaa Mai khayltaa hoo / Mai khayltee hoo Mai khayloongaa Mai khayloongee mujhay khaylna chahiyay thaa | l w | play vill play have played |
| الخبارة اليس بيس بيس بيس بيس بيس بيس بيس بيس بيس ب | 1A 19 r+ r1 rr rr rr rr rr rr rr rr rA | aThaarah unneess beess ikkeess baaeess taeess chaubeess pacheess chhabbeess | eighteen/18 nineteen/19 twenty/20 twenty-one/21 twenty-two/22 twenty-three/23 twenty-four/24 twenty-five/25 | سلیٹی شاید گویاکہ پہلے | slayTee 9.8 – Connective Shayad Goya kay Pehlay | grey Probably As If / whether Before | | کھیلوں گا/گی سے کھیلناچا ہیے تھا نے والا / والی ہوا | میں کھیلتا میر <u>بح</u> | Mai nay khaylaa Mai khayltaa hoo / Mai khayltee hoo Mai khayloongaa Mai khayloongee mujhay khaylna chahiyay thaa Mai karnay walaa Mai karnay walee hoo Mai khaylta tha / khayltee | I w | play vill play have played |
| المُعْدَرَة بيل المُعْدَرة بيل المُعَدِّين بيل المُعالية بيل المحالية بيل المحالية المحالي المحالية المحالية المحالي المحالية المحالية المحالي المحالية المحالية المحالي المحالية المحالية المحالية المحالية المحالية المحالية المحالية المحالية المحالية المحالية المحالية المحالية المحالية المحالية المحالية المحالي المحالية المماليمالي المحالي المحالي المالي المحالي المالي المحالي | 1A 19 7+ 71 77 77 70 74 74 74 74 | aThaarah unneess beess ikkeess baaeess taeess chaubeess pacheess chhabbeess staaeess | eighteen/18 nineteen/19 twenty/20 twenty-one/21 twenty-two/22 twenty-three/23 twenty-four/24 twenty-five/25 twenty-six/26 twenty-seven/27 | سلیٹی شاید گویاکہ پہلے جب تک | slayTee 9.8 – Connective Shayad Goya kay Pehlay Jab tak | grey Probably As If / whether Before Until Besides / apart | ں نی | کھیلوں گا/گی کے کھیلناچا ہیے تھا نے والا / والی ہوا لیا تھا۔ میں کھیلتی خ | میں کھیلتا میر <u>مج</u> میں کر | Mai nay khaylaa Mai khayltaa hoo / Mai khayltee hoo Mai khayloongaa Mai khayloongee mujhay khaylna chahiyay thaa Mai karnay walaa Mai karnay walae hoo Mai khaylta tha / khaylte tee | / I should / I am ab | play /ill play have played out to |
| الخبارة اليس بيس بيس بيس بيس بيس بيس بيس بيس بيس ب | 1A 19 r+ r1 rr rr rr rr rr rr rr rr rA | aThaarah unneess beess ikkeess baaeess taeess chaubeess pacheess chhabbeess staaeess aThaaeess | eighteen/18 nineteen/19 twenty/20 twenty-one/21 twenty-two/22 twenty-three/23 twenty-four/24 twenty-five/25 twenty-six/26 twenty-seven/27 twenty-eight/28 | سلیٹی شاید گویاکہ پہلے جب تک | slayTee 9.8 – Connective Shayad Goya kay Pehlay Jab tak | grey Probably As If / whether Before Until Besides / apart | ں نی | کھیلوں گا/گی سے کھیلناچا ہیے تھا نے والا / والی ہوا | میں کھیلتا میر <u>مج</u> میں کر | Mai nay khaylaa Mai khayltaa hoo / Mai khayltee hoo Mai khayloongaa Mai khayloongee mujhay khaylna chahiyay thaa Mai karnay walaa Mai karnay walee hoo Mai khaylta tha / khayltee | I w | play /ill play have played out to |

A01

Research.

Using artist styles and writing about them. Using images/text from the internet, magazines, books and galleries. Independently finding further techniques to try from places such as Instagram and YouTube.

A02

Experiment to develop.

Using different materials, techniques and processes in the project. Choosing the most successful ones to develop further work.

A03 Record.

Ability to draw, photograph, write down ideas and show how you think

A04

Final piece.

Ability to make a final idea that shows all of the research you have done.

Section 5 Key Vocabulary:

Scale (noun) SIZE. The size or level of something, especially when this is large. **Still life (noun)** a picture, photograph, or piece of writing that you make of an object or group of objects

Line (noun) Type of mark that contains both a direction and a length. curved, bent, thick, wide, broken, vertical, horizontal, blurred or freehand.

Shape (noun) A 2D area that is enclosed by a line. E.g. square, circle, rectangle. **Tone (verb)** The lightness or darkness of something – how dark or light a colour appears.

Form (Noun) objects that have three dimensions. 3-D shape E.g. sphere or Head **Proportion (plural)** the size, shape, or level of something.

Composition (noun) the way that people or things are arranged in a painting or photograph.

Texture (noun) the feel, appearance, or consistency of a surface or a substance.

(Verb) give (a surface) a rough or raised texture. "wallcoverings which create a textured finish"

♦ Research artists, find imagery and annotate your thoughts using content, form, process, mood method.

-

♦ Using a range of materials as you explore artist's and their techniques. Using acrylic, watercolour, 3D structures, pencil crayon, ink, printing, photoshop as well as a range of other techniques

Drawing of a variety of natural objects using tone/pen mark making/ colour
Tonal drawing of your chosen natural form different angles/crop/zoom/enlarge.

Draw ideas for how you might want your piece to look. These can be quick sketches.
Further worked up idea that includes annotation of thoughts/colour use/ artist style use and meaning your piece is communicating to the viewer.

Section 6 Coloured Pencil Techniques

| Hatching – The closer the lines the darker the colour. | Cross Hatching— Overlapping Linear lines in different directions. | Stippling-Clusters of dots. More spaced out dots show lighter areas. |
|--|---|--|
| | | |
| Layering – Blending colours gradually by layering. Apply light layers and smoothly. | Scribbling – Random lines with varied pressure can create light or darker areas. | Burnishing –Adding white or a light colour over the top layers of colours. |

4

DAA CYCLE 3 Knowledge Organiser

SUBJECT ART

YEAR GROUP

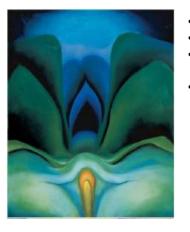
9

Your teacher will start to guide you through the project but then it is up to you to decide what natural form objects you put in your still life project. How your final piece looks will be up to you with planning alongside your teacher. You will take ownership of your work and take responsibility for meeting deadlines.

> American 1887-1986 Natural form artist

Oil paint

Section 7 Georgia O'Keefe



Georgia O'Keefe was an American painter whose career spanned seven. She gained international recognition for her meticulous paintings of natural forms, particularly flowers and desert-inspired landscapes, which were often drawn from and related to places and environments in which she lived.

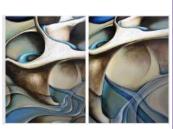
"I had to create an equivalent for what I felt about what I was looking at – not copy it."

Useful Websites

https://<u>https://www.tate.org.uk/whats-on/tate-modern/georgia-okeeffe</u>

Section 8 Idea Development A03 Record.

Ability to draw, photograph, write down ideas and show how you think. Below you can see the process from initial idea of a shell through to a design idea linked to the artist Amiria Gale (left)

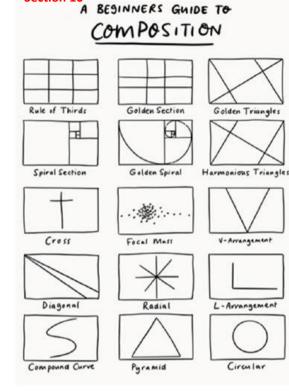


Section 9 Final Piece Development

AO4 is where you develop your ideas into a final outcome. You should be combining artist's techniques and styles with each other as well as your own personal ideas.

This should include your best skills and materials as well as a composition that looks visually pleasing.

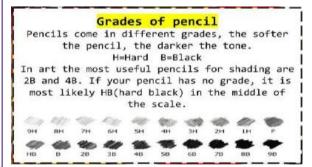




A Beginners Guide to Composition

Section 10

Section 11



| | DAA CYCLE 3 Knowledge Organiser | SUBJECT | PHOTOGRAPHY | TOPIC(S) | ARCHITECTURE | | YEAR GROUP | 9 | |
|---------------|--|-------------|------------------------------|--|--|--|------------|-------------|--------|
| <u>R</u> U | O1 <u>esearch.</u> sing artist styles and writing about them. | | ۲ | Research artists, find imagery and annotate your thoughts using content, for process, mood method. | | | | | |
| | agazines , books and galleries. Independ aces such as Instagram and YouTube. | ently findi | ng further techniques to try | 9 | ◆Using Phone apps/photoshop/ other digital media to edit photographs in the style of a certain artist or technique. Gather different subjects and ways to | | | |) |
| <u>}</u> | 02 «periment to develop. | | | | capture photographs of. Think creatively using hands on/physical photography e.g. Hand drawn textures. | | | | |
| m | sing different materials, techniques and lost successful ones to develop further v | | in the project. Choosing th | r | Photographing a variety of subjects that link to the theme. This could inclurange of portrait, building, landscape, object photography outside the classi Photographs of your chosen subject/theme but in a variety of angles, styl | | | | sroom. |
| <u>R</u> | 03 <u>ecord.</u> | | | | edits. | | | ingres, sty | ,103, |
| | bility to draw, photograph, write down io 04 | leas and sh | now how you think | 9 | Draw ideas for how you might wa ketches. | | | | |
| | I piece. ty to make a final idea that shows all of the research you have done. | | | | Further worked up idea that inclusty ityle use and meaning your piece is | | - | | artist |

Section 5 Daniel Hills

Daniel Hills is a freelance graphic designer, illustrator and artist working in Norwich, London and the East of England areas.

He works with acrylic and oil painting, combined with digital photography and graphics to create contemporary art prints.

He is inspired by J M W Turner's work in his use of texture and colour to represent light. He is also interested in artists using modern printing and vector scanning techniques

His work shows how modern technologies can be used alongside and in combination with more traditional painting techniques and methods.

He has created a range of artwork that has a focus on buildings particularly skylines. He works with vivid and faded colour working with negative space just as much as the subject focus.





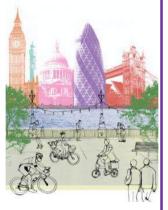


Section 6 Sarah Gooch

Sarah Gooch is a freelance illustrator working in the editorial, publishing and design sectors. Her distinctive style uses layers of collage, painting, line drawing and photographic digital techniques to build up striking imagery.

Inspirations include history, especially the ever changing urban landscape of London, fashion, music, cinema, art galleries and a love of books and magazines. She love's all things decorative, with pattern being a major part of her work.

Her Architectural studies often show buildings outlines with blocks of colour. They show minimal texture but simplified hand drawn detail and outlines. She uses paints, ink as well digital practices to complete her work.





DAA CYCLE 3 Knowledge Organiser

Your teacher will start to guide you through the project—but then it is up to you how you respond successfully. You must be independent with your photography, capturing photographs that link with the theme. You may want to include even more experimental photography looking at inspiration from other artist's, photographers and techniques you have explored from social media, internet and ideas.

TOPIC(S)

ARCHITECTURE

How your outcomes will be up to you with planning alongside your teacher. You will take ownership of your work and take responsibility for meeting deadlines.

PHOTOGRAPHY

Section 7 Key Vocabulary

Architecture – A general term to describe buildings and other physical structures. The art and science of designing buildings

SUBJECT

Interior - The inner part of something; the inside of a room/ house.

Exterior – forming, situated on, or relating to the outside of something.

Skyline – the line at which the earth and sky appear to meet; horizon. the outline of buildings, mountains, trees, etc, seen against the sky.

Camera Angle – The camera angle marks the specific location at which the movie camera or video camera is placed to take a shot.

Scale – The size of something.

Composition – Simply put, composing an image means arranging elements within it in a way that suits the core idea or goal of your work best.

Texture— An image that shows the visual quality of the surface of an object. Texture brings life and vibrancy to images that would otherwise appear flat and uninspiring.

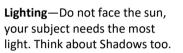
Pattern— Images that have captured a repetition of the formal elements this includes shapes, colours or textures, perfect examples of repetition exist all around us.

Perspective— The sense of depth or spatial relationship between objects in a photo, along with their dimensions with respect to what viewer of the image sees.

Line— A line in a photo is a point that moves, leading towards something. Some lines are obvious, and some are implied. The viewer's eyes are naturally drawn along lines.

Section 8

Top 5 tips when taking a Photograph





Angle Matters—Think about the meaning of your photograph and the impact you want.

Composition—There is more than your subject, consider the background too. Do you need to think about the rule of thirds? Get closer to your subject.



Do not Shake— Hold your breath and keep your elbows in tightly when you press the button.

Get Creative—Be adventurous when taking photographs, take multiple photographs with different angles. Use a torch, get close and have fun.

Useful Websites

https://www.pinterest.co.uk/seanr1132/architecture-photography/

https://www.pinterest.co.uk/Dixonsaart/



SUBJECT Photography Rotation

Section 1 Top 5 tips when taking a Photograph



Lighting— Do not face the sun, your subject needs the most light. Think about Shadows too.

Angle Matters — Think about the meaning of your photograph and the impact you want.

Composition— There is more than your subject,

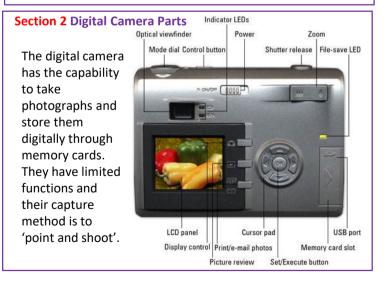
consider the background too. Do you need to think

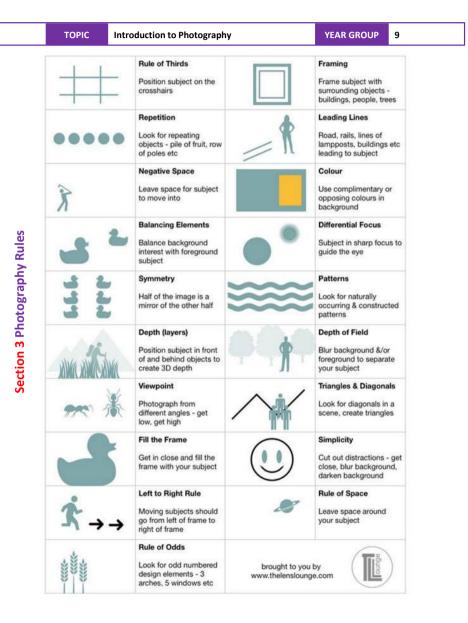
about the rule of thirds? Get closer to your subject.



Do not Shake— Hold your breath and keep your elbows in tightly when you press the button.

Get Creative— Be adventurous when taking photographs, take multiple photographs with different angles. Use a torch, get really close and have fun.





| DAA CYCLE 1 Knowledge Organiser | SUBJECT | Photography Rotation | ΤΟΡΙϹ | Introduction to Photography | YEAR GROUP | 9 |
|---|-------------------------------|----------------------|--|--|---|---|
| Section 4 Slinkachu and Peter Root Slinkachu (Devon, UK) has been "abandoning" his miniature people on th streets of cities around the world. His wo embodies elements of street art, sculptu installation art and photography and has been exhibited in galleries and museums globally Peter Root's work involves turning staple into Cityscapes. Thousands of staples are stacked and aligned to look like cities. Th are then Photographed using strong dept of field and focus. There are many hours into these. | erk re, es ese th | | Ambient I shooting. Camera An shot. Contrast (images. Hi versa. of Field (n that look r Exposure I and the im Focal Poin image. Blur (nour | 5 Key Vocabulary ight/Natural light Is the light that is already p ngle Is the specific location at which the came noun) Is the difference between the light an igh contrast means the blacks are darker and oun) is the distance between the closest and noticeably sharp in an image. (noun) Is the amount of light entering the cam- nage is overexposed and not enough light and it (noun) Is the main part of the image or a pu- n) The loss of sharpness in a photographic im- t or the camera during exposure. | era is located so d dark areas wit whites are brig farthest subjec mera's sensor. T d it's underexpo pint of interest v | o it can take the thin your hter, vice Depth ts in a scene Too much light sed. within the |
| Section 6 The Formal Elements Black & White— Images that have zero of consists of shades of grey tone. | colour. It | | - | have captured a repetition of the forr shapes, colours or textures, perfect | nal | |

Colour— Images that capture the full spectrum of colour.

Experimental— Are the use of capturing images in the non-traditional way. It's about taking your photographs beyond the norm to create unique pieces of art.

Line— A line in a photo is a point that moves, leading towards something. Some obvious, and some are implied. The viewer's eyes are naturally drawn along.



examples of repetition exist all around us.

.....

Perspective— The sense of depth or spatial relationship between objects in a, along with their dimensions with respect to what viewer of the image sees.

Texture—An image that shows the visual quality of the surface of an object. Texture brings life and vibrancy to images that would otherwise appear flat and uninspiring.

Tone— A photograph that captures a variety of light in an image. The 'tone' is the difference between the lightest and darkest areas on a.



This cycle we are going to be looking at different textiles techniques and learning different stitching methods.

Section 1

Key Equipment and it's use:

Sewing Machine: This is used to stitch fabric together faster and neater.

<u>Screen Printing</u>: Screen printing the process of pressing ink through a stencilled mesh screen to create a printed design.

Squeegee: A squeegee is used in screen printing to force the ink through the image section of the

screen

Printing Ink: This is used with a squeegee to print an image.

Stencil: This is used to create a pattern to be printed.

Puff Binder: This is used with a screen to print creating a 3D textured effect.

Heat Gun: This is used with the puff binder to create a 3D textured effect,

Batik: a method (originally used in Java) of producing coloured designs on textiles by dyeing them,

having first applied wax to the parts to be left undyed.

Tjanting Tool: This is used with a wax pot to create designs with wax.

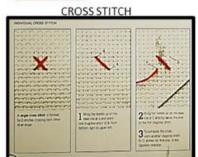
Wax Pot: This is used to melt wax for batik.

Felt: This is a fabric used to create textile products.

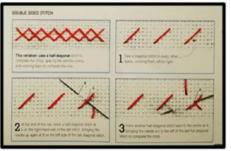
Cotton Thread: This is used with a sewing machine or needle to stitch.

Overlocking Machine: This is used to finish the edges of fabric off so they look neat.

Section 2



DOUBLE SIDED STITCH



How to make... Section 3 A Suffolk Puff / Yo-Yo

Suffolk Puffs (Yo-Yos) are circular puffs of gathered fabric. They date back to the 19th century. They are great for reusing old, scrap material to create decoration for quilts, cushions, jewellery and toys.



- Use a template to draw a circle on scrap fabric.
 - The circle should be double the size you want your finished Suffolk Puff to be.



 Turn the edge of your circle over about Smm and make a small running stitch along the folded edge.

Leave some thread at the start.

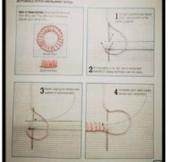


 Pull the threads to gather the puff. Have both long threads finishing on the same sides of the puff, this makes gathering easier.

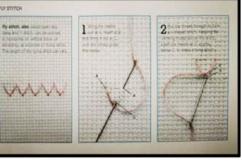


4. Tie the threads together and trim.

BLANKET STITCH





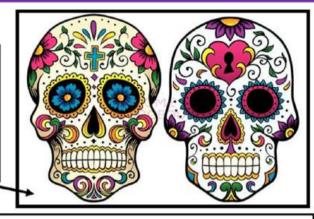


This cycle we are going to be looking at the Mexican festival of the day of the dead and the importance of sugar skulls.

Section 1

What is a sugar skull?

A sugar skull is a representation of a human skull. The term is most often applied to edible or decorative skulls made from either sugar or clay that are used in the Mexican celebration of the Day of the Dead.





Key Equipment and it's use:

Sewing Machine: This is used to stitch fabric together faster and neater.

Screen Printing: Screen printing the process of pressing ink through a stencilled mesh screen to create

a printed design.

Squeegee: A squeegee is used in screen printing to force the ink through the image section of the

screen

Printing Ink: This is used with a squeegee to print an image.

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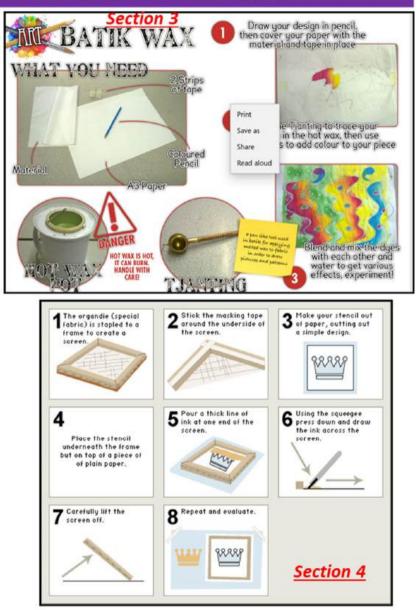
Tjanting Tool: This is used with a wax pot to create designs with wax.

Wax Pot: This is used to melt wax for batik.

Felt: This is a fabric used to create textile products.

Cotton Thread: This is used with a sewing machine or needle to stitch.

Overlocking Machine: This is used to finish the edges of fabric off so they look neat.



| A0 Develop Explore Detailed Mind Maps Develop Ideas Analyse Investigate & Research Artists, Cultures & Issues Artist Interpretation Annotate | Section 1: Key Skills How to create effective visual mind-maps exploring a theme How to research relevant artists and analy their work How to explore materials and produce sculptures inspired by artists How to interpret artists work to develop own ideas | Se A03 Record Drawing, painting, printing, photography, writing Design Annotations Evidence Present your ideas Primary Photographs | Section 5 Key Words Theme The title or subject matter of project. Mind-map A brainstorm of lots of words/images linked to a theme. Analysis Ability to talk about a piece of artwork and show |
|---|--|---|--|
| | A02 Refine Experiment with different materials Review Take Risks Explore Ideas & Techniques Select & Improve Select & Improve Select of the produce skilled drawings Make a range of mini models inspired by the artists and the theme Explore and buy on clay construction | h Plan now to make your refined final idea | your understanding of it. Annotate Notes made next to work in your sketchbook to explain what you are doing. Primary Source An image that you have taken yourself (e.g. own photograph) Secondary Source An image you have found from a book/pinterest/magazine Thumbnail Sketches A group of sketches that show rough ideas for possible final pieces. |
| PETER RANDALL PAGE | Explore and but on glazing and decorating techniques Explore and but on glazing and decorating techniques Record the process Review experiments an annotate how successful they have been. | nd | Colour Scheme A particular set of colours you have selected to work together in your artwork Sculpting Using your hands and tools to shape a material into a sculpture Balance. To make sure your sculpture is secure and stands up safely Coiling Using long clay coils to build a sculpture Moulding Using a plaster mould to form a shape |

Section 2 Section 1 **3D REVIEW and REFLECT** CRITICAL ANANLYSIS GUIDE ANNOTATIONS 1. Title: ARTIST'S NAME 3. Technical How has it been made? The type of artwork is..... Describe your sculpture The country they are from is..... The sculpture is made from... Technical process: how have you They were born in the year..... The materials the artist has used... made your sculpture - materials, The work is contemporary/from the The methods/techniques they've used methods. structure past:..... are Aesthetic explanation: does it look . The theme of the work is..... To make the sculpture they..... good - why? Shape, line, texture, The sculpture is simple/complex.... colour, structure, mood The amount time it took to make would 2. Describe what you see: What has been successful about your ō be.... l can see a..... model/sculpture The main form of the sculpture is.... What artist inspired your work and 0 The subject of the work is... 4. Meaning and Opinion why The work looks like Why have they made it? Were there any weaknesses? 0 They made the sculpture because... Colour How could you improve it? passion/commissioned/job/to explore The colour of the sculpture is..... What's next What do you think it's about? I can see different..... Sentence starters Texture (how does it feel?, What is the I like/dislike the sculpture because... surface like?) My opinion of the sculpture is.. The best part of this sculpture is.... . The surface looks/feels like I chose to study this sculpture because The most successful aspect of my sculpture is The shape isbecause ٠ Size (what size is it compared to real In this model/sculpture I used...... 5. Ideas for my own art in the style of life): The materials I used were the artist The scale of the object is..... My sculpture stands/hangs.... To recreate this artwork, I would The balance of my sculpture is.... ٠ It measures..... The theme I would use is... The colour/texture/shape is.....because Where is the sculpture Located The theme of my sculpture is....., the mood is... The materials I would use are... . I could improve on...../I would change The sculpture is placed on/set I would make it by.... This connects with the work of the artist in/located... I was influenced by the artist because The next thing I will look at it ٠

| DAA CYCLE 3 Knowledge Organiser | SUBJECT | HOSPITALITY & CATERING | G TOPIC(S) | | ing methods and mer choices | YEAR GROUP | 9 | |
|---|---|---|--|---|---|--|---|--|
| AC2.1.2 Impact of cooking | methods on nutritional value | of dishes | | | | | | |
| Why do we cook food? THIS BEEFIS SO RAV | cooking methods alte while enhancing the digestible than that thick cell walls of m is cooked tomatoes, We also cook foods stomach achel Unco | es digestion and increa er the nutritional comp availability of others. F of raw eggs. This is als nany plants, releasing t which have a higher lyo to make them safer to oked meat could give y and taste <u>more appealin</u> | osition of foods a For example, the p so true of vegetal the nutrients stor copene (an amino o eat. For example, you <u>food poisoning</u> | nd can degrade some protein in cooked eggs bles, as cooking break red in them. A great e acid) content than raw eating raw potatoes v <u>c</u> Cooking food <u>kills b</u> | nutrients, s is 180% more as down the xample of this v tomatoes. would give you <u>pacteria</u> and | INTERESTING FA Virtually all <u>miner</u> unaffected by her or raw, food has t amount of calcium phosphorus, magn zinc, iodine, selen manganese, chrom sodium. | rals are at. Cooked the same 1, iesium, iron, ium, copper, | DAT MANY LANE DATE MANY LANE NO PORTALIS NO PORTALIS N |
| | | | | eat and can be destro Chopping and slicing up fruit | | The longer fruit vegetables cook, nutrients are los | the more | |
| roasting | Cooking metl | | | and vegetables causes loss of | Nutrie | nt Content Compar | rison by Cooking | Method |
| frying and fat <u>increas</u> <u>content ar</u> | | basting that use the <u>fat</u> total calories ed this way. | | Type of potato | Amount of fat per 100g | Vegetable | Amount of vitamin C per 100g | |
| steaming boiling Rate of heat transfer | | | | | Potato, baked flesh only | 7g | Raw spinach | 26mg |
| | | | Constraint 1 | | Potato, mashed with butter | 4g | Boiled spinach | 8mg |
| | rotein are cooked slowly, an it are likely to <u>dissolve.</u> He | | | | Potato wedges, baked | 7.7g | Raw peas | 24mg |

tissues present in the meat are likely to <u>dissolve</u>. Heat does not destroy the protein in food, but it may <u>reduce the overall content</u>.

Protein that is exposed to <u>hot temperatures</u>, shrinks and loses moisture. This usually occurs at temperatures between $70^{\circ}C - 85^{\circ}C$.



Potato, roasted

Chunky chips deep fat fried

4.5g

5.2g

Boiled peas

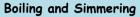
Canned peas

16mg

1mg

AC2.1.2 Impact of cooking methods on nutritional value of dishes

Moist Cooking Methods 2



Boiling reduces vitamin C content more than any other cooking method. As vitamin C is water soluble and sensitive to heat it can leach out of vegetables when they are immersed in hot water, such as in boiling. Broccoli and spinach may lose up to 50% or more of their vitamin C when boiled! B vitamins are similarly heat sensitive. Up to 60% of thiamine, niacin, and other B vitamins may be lost when meat is simmered and its juices run off.

However, when the liquid containing these juices is used to make stocks and gravies, 100% of the minerals and 70-90% of B vitamins are retained. Interestingly, boiling fish can preserve omega-3 fatty acid content significantly more than frying or microwaving.

Boiling is most suitable for cooking dry, starchy ingredients such as pastas, rice and grains. The rapidly boiling liquid is needed to keep the ingredients moving so they do not stick together. Starch (carbohydrate) is gelatinised when cooked in liquid making it easier for the body to digest and therefore use for energy.

Boiling is also used for blanching many vegetables (to kill bacteria for food safety requirements). Prolonged boiling is never recommended because it can damage the flavour and ingredients.

Steaming

Steaming is one of the best cooking methods for preserving nutrients, including water-soluble vitamins, which are sensitive to heat and water.



Steaming broccoli, spinach and peas reduces their vitamin C content by only 9-15%. The downside is that steamed vegetables may taste bland. However, this is easy to remedy by adding some seasoning and oil or butter after cooking.





Poaching

Poaching is a cooking technique that involves cooking by submerging food in a liquid, such as water, milk, stock or wine. Poaching is differentiated from the other "moist heat" cooking methods, such as simmering and boiling, in that it uses a relatively low temperature.

Delicate foods such as fish and eggs are often cooked this way as they are less likely to break apart during the cooking process and retain their shape.

As this cooking method involves submerging food in water, water soluble vitamins B and C are lost in the process.

When acidic liquid such as wine is used to poach foods, such as fruit, the acidity can also destroy vitamins and minerals.



Microwaving

Microwaving is an easy, convenient, and safe method of cooking. Short cooking times and reduced exposure to heat preserve the nutrients in microwaved food.

Microwaving is the best method for retaining the antioxidant activity of garlic and mushrooms. Meanwhile, about 20-30% of the vitamin C in green vegetables is lost during microwaving, which is less than most cooking methods.

AC2.1.2 Impact of cooking methods on nutritional value of dishes

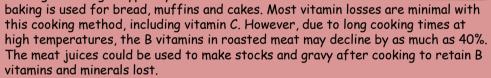
Dry Cooking Methods 3



Grilling is a method of cooking with dry heat. Grilling is one of the most popular cooking methods because of the great flavour it gives food. Unfortunately, up to 40% of B vitamins and minerals may be lost during grilling or broiling when the nutrient-rich juice drips from the meat. There are also concerns about polycyclic aromatic hydrocarbons (PAHs), which are potentially cancer-causing substances that form when meat is grilled and fat drips onto a hot surface.

Roasting and Baking

Roasting and baking are both dry heat methods of cooking. Roasting is typically used for meat while



SUMMARY

- Water-based cooking methods cause the greatest losses of water-soluble vitamins, they have very little effect on omega-3 fats.
- Grilling provides great flavour but also reduce levels of B vitamins. Grilling generates potentially cancer-causing substances (PAHs).
- Microwaving is a safe cooking method that preserves most nutrients due to short cooking times.
- Roasting or baking does not have a significant effect on most vitamins and minerals, except for B vitamins.
- Sautéing and stir-frying improve the absorption of fat-soluble vitamins and some plant compounds, but they decrease the amount of vitamin C in vegetables.
- Frying can provide some benefits when healthy oils are used. It's best to avoid frying fatty fish.
- Steaming is one of the best cooking methods for preserving nutrients, including water-soluble vitamins.

Stir frying



With sautéing and stir-frying, food is cooked in a saucepan over medium to high heat in a small amount of <u>oil</u> or butter. Cooking for a short time without water prevents the loss of vitamins B and C, and the addition of fat improves the absorption of plant compounds and antioxidants. In fact, <u>beta carotene</u> was 6.5 times greater in stir-fried carrots than in raw ones. On the other hand, stir-frying significantly reduces the amount of vitamin C in broccoli and red cabbage.



Frying involves cooking food in a large amount of fat -



usually oil — at a high temperature. Food is often coated with batter or bread crumbs, such as fish and chips or deep fried chicken. When the skin makes contact with the very hot oil it forms a seal, which ensures that the inside remains moist and cooks evenly. However, not all foods are appropriate for frying. Fatty fish (source of omega-3 fatty acids) is very delicate and prone to damage at high temperatures. For example, frying tuna has been shown to degrade its omega-3 content by up to 70-85%, while baking causes only minimal losses. In contrast, frying preserves vitamin C and B vitamins, and it may also increase the amount of fibre in potatoes by converting their starch into resistant starch.

HOW TO RETAIN NUTRIENTS WHEN PREPARING AND COOKING FOOD

- Use as little water as possible when poaching or boiling.
- Use the liquid left in the pan after cooking vegetables.
- Add back juices from meat that drip into the pan.
- Leave skin on vegetables to increase fibre content.
- Cook vegetables in smaller amounts of water to reduce the loss of vitamin C and B vitamins.
- Eat cooked vegetables within a day or two, as their vitamin C content may continue to decline when the cooked food is exposed to air.
- Cook vegetables for only a few minutes whenever possible.
- When cooking meat, poultry, and fish, use the shortest cooking time needed for safe consumption.
- Some chefs use baking soda when cooking vegetables to help them retain their colour, however vitamin C will be lost in the alkaline environment produced by baking soda.

Seasonal Foods 4

Seasonal food is fresh food that is ready to eat during its preferred season. For example, English strawberries are juicy and delicious in the summer and early autumn. They do not grow wild in England during winter as it is too cold. Some foods are not seasonal. Meat and dairy are available all year round. Cows are milked and chickens produce eggs from January all the way to December.

Tastes Better

Seasonal produce will be at its peak for both flavour and health benefits. It's harvested at exactly the right time, so the taste is riper, sweeter, and generally more delicious. The chef/cook won't need to use seasonings such as salt or spices. Out of season food gets picked before it's ripe and then gets spoilt during transport. This compromises freshness and flavour of the food, so the chef gets lower quality at a higher cost.



Eid: Celebrated worldwide by Muslims to mark the end of <u>Ramadan</u>. Eid ul-Fitr takes place on the first day of the tenth month of the Islamic lunar calendar, and Muslims are not permitted to <u>fast</u> on that day.

Ramadan: During the month of Ramadan, Muslims won't eat or drink during the hours of daylight. This is called fasting. Children are not expected to fast until they reach puberty, usually around the age of 14.

Healthier

Foods grown out of season can't follow normal growing and ripening cycles, which our bodies are naturally in sync with. But by altering the menu to follow the seasons, dishes will have a better nutrient value. This is a great selling point for a food establishment, especially those catering to a wide variety of customers such as the young and elderly.

Produce that is flown thousands of miles also loses some of its nutritional and vitamin value. Fruit and vegetables that have been blanched, tinned or dehydrated to enhance the lifespan lose nutrients as well.

Local Economy

As well as getting food at its prime, you'll also be supporting your local economy. Money spent in local businesses is normally reinvested into other local stores; helping to generate jobs and support local producers. Buying directly from the farmer or producer also means you no longer have to wonder where your food came from

Easter: Easter is the most important festival in the Christian calendar. It celebrates Jesus rising from the dead, three days after he was executed. An egg is a symbol of new life. For Christians, Easter eggs are used as a symbol for the resurrection of Jesus. Easter is often celebrated with the giving and receiving of chocolate eggs.



Christmas: Christmas is a Christian holy

day that marks the birth of Jesus, who Christians believe to be the Son of God. Christmas dinners are an important part of the celebrations. Families and friends will share food together, eating traditional foods, such as turkey, mince pies and Christmas puddings.

Disadvantages

Some disadvantages of using seasonal foods are that your may have to change your menu according to the seasons, this might push customers away who prefer certain dishes. This is a similar challenge to the chef, who may struggle to make the dishes interesting with limited ingredients. The skills required to be able to prepare and cook seasonal food may be a disadvantage to a business as staff costs may be higher. Employing high skilled staff may create an increase in food costs.

Cheaper

Seasonal produce that is locally sourced is often cheaper than buying out of season food that's been brought in. Seasonal food is cheaper to harvest, transport and sell as it's in abundance - driving down the market price. A good tip is to look for the Red Tractor logo; this symbol shows that the food is "traceable (back to a UK farm), safe and farmed with care".

Environment

Seasonal food is often grown/reared much closer to you. Reducing the environmental damage done by carrying and shipping foods long distances and keeping them cold. This is called 'food miles'. Food grown locally will also need fewer fertilisers and pesticides. which lessens water, air, and soil pollution, supporting a healthier community.

Buying seasonal food will help to reduce your own carbon footprint and support a more sustainable food economy.

Skills of Chefs 5

Catering jobs are available at various levels, ranging from trainee and apprenticeships to executive level. Here are a few examples of the different types of jobs that are available in the catering industry:

EXECUTIVE CHEF

An executive chef manages the kitchen. He or she is responsible for monitoring and maintaining the quality of all dishes that leave the kitchen, creating menus and inventing new dishes, and supervising the kitchen staff. Except in small establishments, an executive chef will generally spend more time on administrative and managerial tasks than on food preparation.

QUALIFICATIONS

- Formal culinary training
- Previous restaurant experience
- Extensive food and beverage knowledge
- Restaurant industry knowledge

• Knowledge of restaurant regulations Because the executive chef is the most senior person in the kitchen, he or she is often required to have a minimum of 5 - 8 years of relevant experience.

+ The qualifications listed under Section Chef.

skills

Positivity

• Work well under

· People management

SKILLS

- Cooking skills
- Menu planning skills pressure
- Communication skills Self-motivated • Customer service
- · Leadership skills
- Time management skills
- Attention to detail
- Organisational skills skills
- Problem solving skills
 Numerical skills





SOUS CHEF

Works alongside head chef to manage daily kitchen activities, including overseeing staff, aiding with menu preparation, ensuring food quality and freshness, and monitoring ordering and stocking. Provides meal quality and consistency by following designated recipes.

QUALIFICATIONS

- Formal culinary training
- Previous restaurant experience
- Extensive food and beverage knowledge
- · Restaurant industry knowledge
- Knowledge of restaurant regulations
- + The qualifications listed under Section Chef.

SKILLS

- Cooking skills
- Communication skills
- Numerical skills
- Leadership and
- teamwork skills
- Organisational skills
- Problem solving skills
- Work well under pressure
- Self-motivated
- Customer service skills
 - Positivity
 - People management skills
 - Attention to detail



SECTION CHEF

The chef de partie or section chef preps, cooks and assembles dishes and makes sure that they go out on time. They are in charge of a specific section of the kitchen such as sauces, fish or pastry, so need to have a sound knowledge of cooking. The chef de partie also assists the sous chef or head chef in developing menus.

QUALIFICATIONS

- City & Guilds 706/1 | 706/2 Catering
- NVQ Level 2
- Level 1 and 2 Food Safety Awards
- Minimum 1 years relevant experience
- Awareness of manual handling techniques
- Awareness of Control of Substances Hazardous to
- Health Regulations (COSHH) and chemical safety

SKILLS

- · Cooking skills
- · Work independently
- Manage Commis Chefs
- Communication
- Team management
- Communication skills
- Attention to detail
- Numerical skills
- Adaptability
- Positivity
- Team player

Skills of Chefs

COMMIS CHEF

A Commis Chef assists a section chef (Chef de Partie). The commis chef is the first rung of the ladder to becoming a great chef. In most kitchens the commis chef will do food preparation work and basic cooking under the supervision of a chef de partie or section chef, rotating through sections such as sauce, vegetables, fish and butchery roughly every six months.

QUALIFICATIONS

- Level 1 and 2 Food Safety Awards
- Minimum 6 months relevant experience
- Awareness of manual handling techniques
- Awareness of Control of Substances Hazardous to Health Regulations (COSHH) and chemical safety
- · Experience of kitchen equipment
- Experience of dangerous equipment such as knives
- · Competent level of English spoken and written

SKILLS

- Communication skills
- Teamwork skills
- Working quickly and
- efficiently
- Stamina

- Willingness to learn
- Patience
- Attention to detail
- Passion for food
- Work well under pressure

CATERING ASSISTANT

The purpose of this role is to provide general assistance to the catering manager. The catering assistant will be required to assist with performing administrative tasks, preparing and serving food, and communicating with guests.

QUALIFICATIONS

Formal qualifications are not required. However, a basic certificate in nutrition, catering, or food safety management will count in your favour when applying for a job. The level of experience required will differ from one job to another. An entry-level job in this field will usually require little to no experience, and will allow you to learn on the job.

SKILLS

- Communication skills
- Problem solving skills
- Ability to work in a team
- Ability to work under pressure



There are no fixed educational requirements for becoming an executive chef. While it may be possible to work your way up to this position through onthe-job training and practical experience, it is recommended that you study towards a relevant qualification, such as a restaurant management certificate, hospitality management certificate, culinary arts degree, or hospitality management qualification.





• Ability 1

Large Scale Equipment 7



Combi Oven

Simple and quick operation, all at the touch of a button. This oven allows pre-prepared settings, has a wide range of cookery options and even cleans itself. These functions support the chef in their daily duties.



Commercial Range

Many commercial ranges have boost burners which generate 25% more power. They have semi-sealed hobs and drip trays to facilitate ease of cleaning. These ovens allow the chef to prepare and cook large scale operations due to the power and size.



Deep Fat Fryer

Free standing fryers are extremely large and allow large batch cooking as well as the option to cook separately in either basket. Training must be given before they can be used as they can be extremely dangerous.



Blast Chiller

Blast chilling is a method of cooling food quickly to a low temperature that is relatively safe from bacterial growth. By reducing the temperature of cooked food from $+70^{\circ}C$ to $+3^{\circ}C$ or below within 90 minutes, the food is rendered safe for storage and later consumption.



Commercial Fridge/Freezer

Large scale fridges and freezers allow you to safely store food at the correct temperature and comply with HACCP 2006. Fridge temperature: 1-5°C Freezer temperature: -18°C



Four Pot Bain Marie

Perfect for safely holding sauces, gravy and pre-cooked foods for up to two hours at serving temperature above 63°C. These are very useful when wanting to serve customers quickly or store foods safely without fear of them burning. You have most likely seen this piece of equipment in your school's canteen! Rotisserie Oven



Rotisserie grilling produces superb duck, crisping the skin and melting out the fat. Rib roast comes out dark and crusty on the outside, red and juicy inside, with a live fire flavour better than that of a roast cooked in the oven. Poultry produces good results when cooked in a rotisserie.

Powered Equipment 8



Mincer

A meat mincer is a small kitchen appliance used to grind meat into a smooth, uniform soft mass without the need of any other accessory. A meat mincer machine is a clean, effective and safe way of obtaining minced meat.



Electric Whisk

Electric hand mixers - sometimes called beaters - really speed up whisking egg whites, creaming butter with sugar and whipping cream. They are less powerful than stand mixers, so are perfect for mixing small quantities, and for when you want more direct control over the mixture.



Blender

Produces smoothies,

sauces in seconds.

cocktails, fruit purées,

velvety smooth soups and

Portable Induction Hob

Portable induction hobs are much safer to use, as most will feature a boil dry detection as well as switching off automatically when a pan is removed and resume when pan is returned. They are ideal for indoor or outdoor cooking. These are extremely energy efficient and support the environment. These cookers also don't heat the surface of the cooker, so are much safer to use.





Food Processor

A food processor is a motorised appliance that quickly performs food prep tasks traditionally carried out by hand. Some food processors can chop vegetables; some can blend ingredients into soups, pastes and sauces; and others can mix things like batter and cream.

Standing Mixer

Great for multi-tasking, a standing mixer is perfect for mixing large batches of dough or batter whilst you concentrate on other tasks. A standing mixer is also good for tougher mixing tasks such as bread kneading and pastry making.



Handheld Equipment 9



Balloon Whisk

Balloon whisks have many flexible wires and are used for whipping egg, cream, hollandaise, and for mixing thinner liquids.



Zester

A small fine-toothed metal grater often mounted on a wooden or plastic handle to remove the zest or coloured portions of citrus peels in thin strips.



Conical Strainer

Is used for straining stocks, soup, sauces, and other liquids. Pointed shapes allow cooks to drain liquid through a relatively small opening.



Pastry Bag and Nozzles

A funnel-like or coneshaped cloth or plastic bag with an open end that can be fitted with metal or plastic tubes or tips of varying sizes and designs.



Sieve

A screen- type mesh supported by a round metal frame used for sifting dry ingredients like starch and flour.



Food Mill

A device with hand- turned blade that forces food through a perforated disk that is interchangeable with different coarseness or fineness reduce a solid to small, fine pieces or powdery particles like vegetables, coffee, pepper, spices, etc.



Colander

A perforated bowl of varying sizes made of stainless steel, aluminium or plastic used to drain washed or cooked vegetables, green salad, pasta, and other foods.



Colour Coded Chopping Boards

White: bakery and dairy products Yellow: cooked meat Brown: root vegetables Red: raw meat Blue: raw fish Green: salad, fruit and fresh vegetables



Grater

A four-sided metal box with grids of varying sizes. Used for shredding and grating vegetables, cheese, citrus rinds, and other foods.



Chip Scoop

the scoop remains cool to the touch when in use, ensuring the safety and comfort of staff. Made with a perforated head, the scoop allows residue to easily drain away to ensure chips are not soggy or too oily.

Handheld Equipment 10



Saucepan

- Reheating soups
- Smaller volumes of sauces
- Ideal smaller portions



Non-Stick Sauté Pan

- Cooking eggs and fish
- Allows cooking at lower temp.
- Don't use metal instruments as they will scratch the Teflon surface



- Cooking larger stews and soups
- Making larger volumes of sauces
- Ideal for bulk cooking where multiple portions are to be served



Cast Iron Pan

Grilling meats, fish and vegetables
Can take high heat and go in oven
Cast iron won't tarnish and is easy to clean



Stainless Steel Sauté Pan

• Stir fries, vegetables, braising and finishing dishes



Cast Iron Griddle Pan

Has grooves in the bottom for searing meat
Fat stays below in the grooves
Make sure to season and

clean between the grooves

Type of Provision 11

Different occasions suit different types of menu. For example, if you go to a wedding you would expect a sit down meal, often silver service. If you go to a party you would probably expect a buffet. Most importantly, the style of service, menu and event needs to suit what the customer expects and wants.

When planning your menu you should consider:

Time of year, weather, types of customer, time available, price, portion control, ability of the cook, ability of the waiting staff, equipment available (for preparation, serving, cooking), balance (colour, flavour, texture, shape, variety of ingredients), presentation.

Children's Menus

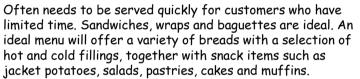
Should be fun and include healthy alternatives to children's favourites, e.g. potato wedges instead of chips Children could have more choice by offering smaller portions of main meal dishes from the adult menu. Children's menus should not be excessively high in fat, salt and sugar and demonstrate smaller portion sizes.



cials Many restaurants have 'specials boards', which is a good way of adding seasonal dishes to the menu.



Lunch



Breakfast

Breakfasts usually offer a choice of hot (bacon, egg, sausage, tomato etc.) and cold continental (rolls, croissants, cheese, cold meats, fruits and voghurts). Hot and cold drinks and a tasty selection of preserves are also often offered.



Evening meal

Vegetarian and healthy choices should be offered as well as dishes using a variety of cooking methods. In the UK, the most popular menus offer hot and cold starters, a variety of main courses and a selection of desserts that include chocolate and fruit.

| Menu Type | Description | Advantages | Disadvantages |
|-----------------------------------|---|---|--|
| Table d'hôte or set-price menu | A fixed or set-price menu with a limited selection of dishes for every course. | Faster service and less wastage as less items on the menu for the chef team to prepare. | Limited choice |
| A la Carte menu | All dishes are individually priced. Menu comprises of starters, mains, desserts and side dishes. A type of menu often used in restaurants. | Wide variety and choice. Food items and dishes listed and priced individually so the customer can make their own meal from a selection of dishes. | Creates longer wait times for customers as dishes are cooked to order, slowing down the chef team. Can generate a lot of waste for the establishment if a dish is not popular. |
| Rotating menu cycle | Often used in schools and hospitals. A fixed pattern of menus is used to cover a fixed number of days. The minimum number of days is eight, so that menus are never repeated on the same day each week. | Chef/catering team will be familiar with the menus and therefore able to cook to a high standard consistently. | Food is often made with cheaper ingredients, resulting in poorer quality as focus is not on awards or reviews. |
| Ethnic or Specialty menu | Can be fixed price or A La Carte. Some offer dishes from particular countries, e.g. China, Italy. Others offer specialised food, e.g. fish or vegetarian dishes. | Chefs who are familiar with the type of cuisine are often employed, therefore dishes cooked to a high standard. Very popular in modern dining. | Limited choice other than the theme of menu on offer. Menu may not suit a wide variety of customers. |
| Fast-Food menu | This is similar to a specialty menu. Food tends to have 'themes' such as burgers, chicken or baked potatoes. Items are priced individually. | Low skilled staff can be employed to cook food as it is often prepared and delivered from a larger manufacturer. Makes staff wages lower, saves money. | Food is seen as 'cheap' and therefore prices must reflect this. Restaurant would have to sell in high volumes to make a profit. |
| Party or Function menu | Usually a fixed-price menu offered for parties or functions such as wedding receptions. Some party's menus offer a limited choice. Price is set per head (per person) rather than by dish. | Costing the menu per person helps the chef to budget for ingredients and staff. Food can be prepared and chilled ahead of time as menu items are already decided. | Limited choice, especially for customers with allergens and intolerances. |

Type of Provision 12

When an planning your menu you must consider the following factors:

- Type of function/event
- Date and time
- Type of venue
- Number of guests
- Risk Assessment (allergens and intolerances)

Venues

Once you have chosen your brief, you can begin to think about the style of menu that will suit the occasion. For example, children's' parties may take place at a soft play area where a small buffet style meal would be suitable. You could even create a dinosaur or superhero themed menu with set items. The menu would have to consider the equipment available at a soft play area, which is unlikely to have a fully functioning commercial kitchen onsite. An adult's party may take place at a restaurant where a wider variety and choice is expected. You may even be asked to design a menu for a holiday park bistro, where all ages must be catered for!



Soft Play Areas

Sports Arenas

Type of function: The most important factor to consider is what type of event are you planning? Common functions/events in the hospitality industry are: weddings, charity fundraisers, school proms, awards nights (the Oscars), business networking, opening of a new business, staff Christmas party, christenings, birthdays, confirmations, bar mitzvah, sporting events e.g. football hospitality (private boxes), horse racing (The Grand National). The menu may have to suit the theme, sports club, company or brand. If the event is a special occasion/luxury a silver service may be expected, however work parties and discos may only require a buffet service. The type and purpose of the event will determine every other factor and decision.

Date: Time of year, e.g. Christmas, Easter, Summer, Spring. The time of year might have an impact on the theme you choose or ingredients that are in season. The date may be specific to the client, e.g. a wedding day, date of the school prom, that cannot be changed.

Time: Morning = Breakfast Dishes such as cooked breakfast (Full English), light snacks, fruit, pastries, Danishes, yoghurt. Daytime = Lunch/Snacks such as sandwiches, baked potatoes, wraps, salads, pasta dishes.

> NO IGHT

Corporate Meeting

Outdoor

Marquee



Evening = 2 or 3 course dinner, starters, mains, desserts, vegetarian options.

Children's Party

Stately Homes

The time may dictate the type of food you serve or style of service, e.g. in the evening guests would not expect a breakfast course, in the morning, guests probably don't expect a 3-course meal. When planning a menu always think about the time of <u>day or year!</u>

Number of Guests

The number of guests is <u>VERY important!</u> The catering manager/chef needs to make sure that if 60 guests are expected, 60 guests are catered for, plus some extra in case people turn up unexpectedly. A wedding is a great example of where the number of guests must be correct, as the cost per person is often expensive (around £70 per guest)! If an event expected lots of guests (over 200) the chef may suggest serving a buffet as a 3-course meal for over 200 people may be time consuming (unless there are many chefs and wait staff employed for the event). All these things must be considered so the event runs smoothly, and everyone is catered for.

Portion Control

Portion control is extremely important. Customers need to feel they are getting 'value for money' and having the same size portion as everyone else.

It helps the caterer when planning to know how many portions the ingredients will make? The caterer can then determine a selling price (how much should be charged to cover costs and make a profit?) and avoids waste.

Using standard recipes can help a caterer by determining how many ingredients will make 10, 20, 30 or more portions. Equipment can also be used to control portions:



AC2.2.1 Factors affecting menu planning Environmental Considerations 13 Buying ingredients - what to consider? When planning your menu, you must consider the impact your • Have the ingredients travelled from far away by environmentally damaging transport? choice of dishes • Have the ingredients been processed and purified using a lot of energy carbon footprint and preparation methods will have on the environment. • Ingredients locally produced - saving food miles and environmental damage · Organic ingredients not using excess fertiliser, pesticide or artificial hormones for animals Environmental issues you must consider also include: • Animal welfare e.g. free range or barn eggs, free range meats, organic meats • Fruits and vegetables and meat produced locally or sustainably Conserving energy and water when preparing food ENERGY • Ingredients such as cocoa, coffee, syrup produced • 3 Rs Reduce, Reuse, Recycle SAVING Food sustainability and provenance by fair trade farmers. Choose sustainable food. By this we mean buy local, seasonal and environmentally friendly Food miles/Carbon footprint food. For example, try local farmer's markets, choose products with a Fairtrade stamp. The distance the food or ingredients travel from select fish that has been sustainably farmed. By buying locally your ingredients will travel production/growing to where it is consumed or sold. less miles to reach the kitchen, reducing carbon footprint. Transporting food long distances is harmful to the environment. Some foods can't be grown in this country Using organic foods is also extremely environmentally friendly as these products don't use due to the climate and therefore must be transported any pesticides and fertilisers. However, many supermarkets reject these due to their shape overseas to reach us. and size being 'non-uniform' These are often wasted or used as animal feed. Visit foodmiles com to calculate the food miles of To conserve energy, it's best to keep your pans covered while cooking. Covering your pans your chosen ingredients: REUS will require less cooking time. This is also a good way to prevent grease splatters that will require you to use additional water or cleaning products to remove. While cooking, you can foodmi lift the covers briefly to stir or flip over food so that it doesn't burn. This style of cooking speeds the foods cooking time by 25%. Key Words As induction hobs are more energy efficient than gas hobs, a chef could consider switching to induction hobs, however gas hobs allows better control over cooking temperatures. You could plan your menu around faster cooking methods such as sauteing and stir frying to Reduce lowering the amount of waste produced minimise the amount of energy used. Cutting your food into smaller pieces has long been an effective green cooking method. Reuse using materials repeatedly Smaller meat and vegetable pieces can be heated faster so that less energy will have to be used. This will also make it easier for you to see how well your food is cooking so that you Recycle using materials to make new products can manage your cooking time more effectively without burning anything. Sustainable Cutting meat into smaller portions can also reduce the chances of food borne illness from able to be maintained or continue raw or undercooked meat dishes. Additionally, if you use this method on meat, you should also be able to avoid overcooking and therefore prevent food wastage.

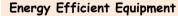
Environmental Considerations 14



Each time that you cook, you should prepare a larger food portion so that you can use it again. Since reheating will require less energy use, preparing a larger portion will save you from having to use more heating power to prepare new meals. This can also help you reduce your clean up times and cut down on your water use. A great example of this is to make 20 portions of lasagne and once cooled, you can portion, freeze and reheat when required.



Occurs when humans take fish from the marine and freshwater sources at a rate faster than fish can repopulate. It's the reason seafood is expected to be depleted from the oceans by 2048. Overfishing is a result of modern advancements in the fishing techniques such as trawling and dredging, which disrupt the physical habitat and biologic structure of ecosystems in the ocean. Fish such as cod, salmon and tuna are in danger as these make up the vast majority of species fished for.



Energy efficiency simply means using less energy to perform the same task – that is, eliminating energy waste. Energy efficiency brings a variety of benefits:

- reducing greenhouse gas emissions,
- reducing demand for energy imports
- lowering our cost

ENERGY SAVING TIPS FOR CHEFS • STAFF INVOLVEMENT

Raise energy awareness among kitchen and waiting staff and appoint "Energy Champions", staff members responsible for turning off lights, ovens and equipment when not in use and making sure that heating and hot water are set at the right temperature. • **RFRIGERATION**

Fridges and freezers should be located away from the hot kitchen. Ensure refrigeration temperatures are set correctly and review the condition of the door seals. Keep fridge doors closed as much as possible – install door closers or alarms to prevent staff members accidentally leaving the fridge/freezer doors open.

· REVIEW EQUIPMENT

A new machine could save money and energy. A <u>combi oven</u>, for example, which offers convection, steam and combination cooking, can save energy, while <u>induction hobs</u> are more energy efficient than a traditional <u>electric hob</u>.

• **REVIEW YOUR DISHWASHER** Don't set the dishwasher away half full, wait until a full load is ready to save water and energy.



When using water to boil anything in a pan, make sure that you only use as much water as is needed to cover the amount of food you're cooking - one of the most common forms of energy wastage is the energy it takes to boil water you don't need. Use the kettle to boil water quickly and transfer to a pan on the hob for steaming and boiling vegetables or pasta. Always use a pan which is the right size for the amount of food you are cooking to ensure that you use less energy in heating a bigger surface area when you don't necessarily need to.

Use a double steamer to cook vegetables so you can layer vegetables on top of each other and still use one ring. Turn down the level of the ring or burner once the cooking temperature or state is reached; most dishes need to simmer, not boil.



Check your fridge regularly to see what food you have, what's going off soon, what can be frozen, what vegetables are on the turn that can be made into a quick side dish? Or even cook to destroy spoilage bacteria and preserve the foods shelf life. By also checking that food has been stored correctly you can prevent food wastage by preventing food spoilage.

Avoid over purchasing ingredients, buy ingredients with your menu in mind and the number of customers you are likely to serve. Avoid serving large portions to prevent food wastage by customers. Don't forget, food waste can be composted and used to grow more crops. You could even serve some fruits and vegetables with the skin on to prevent waste and increase the fibre content of the dish!

Cattle Farming



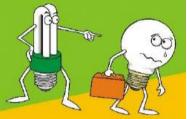
Reduce how much meat and dairy you use! By using less beef and dairy products you can reduce health risks and greenhouse gases. Beef's environmental impact exceeds that of other meat including chicken and pork, experts believe that eating less red meat would be a better way for people to cut carbon emissions than giving up their cars. The heavy impact on the environment of meat production, research shows a new scale and scope of damage, particularly for beef. The popular red meat requires 28 times more land to produce than pork or chicken, 11 times more water and results in five times more climate-warming emissions. When compared to staples like potatoes, wheat, and rice, the impact of beef per calorie is even more extreme, requiring 160 times more land and producing 11 times more greenhouse gases, in particular 'methane'.

Conserving Energy 15

Conserving energy by:

- Keep equipment clean and maintained so it uses less energy including filters on ventilation and refrigeration
- Descale equipment used for boiling
- Keep lids on saucepans
- Energy efficient lighting, auto switch off
- Turn off equipment and lights when not in use
- Don't put hot food in fridges, uses more energy to cool down
- Energy efficient boilers etc for hot water, don't have water too hot (above 55°C for legionella)
- Replace old equipment with more energy efficient models
- Gas heats up and cools down more rapidly but needs ventilation





Conserving water by:

- Taps that disperse only short bursts of water
- Motion sensor taps
- Only use minimum water to cook food
- Use a steamer instead of boiling in water
- Reduce flow of taps, use a spray head for washing
- Have taps which turn themselves off
- Use a bowl, keep the plug in when washing up
- Full loads for washing machines and dishwashers
- Serve water on tables at customer's request
- Reduce flow rate to equipment such as pot peelers
 Water metering





- REDUCE
- Only buy what is needed for preparation
- Storage check temperatures, use airtight containers label food with dates, use first in first out for ingredients
- **Preparation** do not over trim, use carcasses and trimmings to make soups, stocks and sauces
- Portion sizes do not offer excessive portion sizes people will leave lots of food, wastes energy in preparing food that is not going to be eaten
- Write menus that consider using offcuts such as chicken trimmings used to make a pie
- Turn dry fruit and veg into powders and seasonings
- Turn excess fruit and veg into chutneys, sauces, jams, pickles
- Freeze leftover food for later use in dishes.



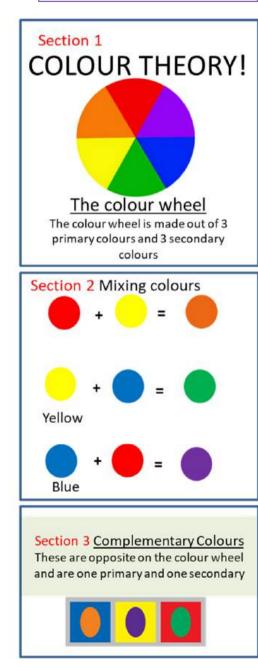
- Keep food in reusable containers
- Serve water in glass bottles or carafes
- Use refillable containers for condiments, salt and pepper, sauces etc instead of single serve
- Use food not served to make new meals e.g., bubble and squeak with left over potato and green veg, stir fries with small pieces of veg, trifle with left over cake, meringue with left over egg white, soup with veg and meat leftovers, Bread and butter pudding or croutons with bread.



- Recycle sturdy containers for food storage
- Send food waste to be used for compost or animal feed instead of throwing it away
- **Recycle used cooking oil**. Some companies collect it for free and then turn it into bio diesel
- Recycle paper, cardboard, cans, glass bottles and jars. Councils will collect for recycling.
- Buy recycled glass, food grade plastic containers, recycled paper
- Use the correct recycling bins train staff

TOPIC(S) LETTERS

YEAR GROUP 9



Section 4

Harmonious Colours These are next to each other on the colour wheel and are similar shades



Section 6 Health & Safety & Important stuff with Clay

- No drinking or eating when working with clay
- Make sure you wash your hands well after using clay
- Always wipe any bits of clay up when you have finished
- Keep clay covered up in plastic if you need to keep working on it so it doesn't dry out
- When you've finished, you can leave it uncovered to dry
- DO NOT THROW CLAY / TAKE CLAY = UNIT
- NO WANDERING AROUND THE CLASSROOM –
- PUT YOUR HAND UP IF YOU NEED ANYTHING OR NEED TO MOVE



Poly Printing

- 1. Draw and carve a letter into a piece of poly print
- 2. Roll layers of even ink onto the poly print
- Place the paper over the top and roller with a dry roller
- 4. Peel off the paper



Section 7 Making a clay letter



Use guide sticks to roll the clay out evenly. It should be the same thickness all the way along!







Section 8

Clay is a naturally occurring material that is taken from the ground. Over long periods of time, rocks are broken down into tiny particles – minerals. These particles are weathered for thousands and even millions of years and can form clay



Dry frying

During year 9 you will use a wide range of foods and skills to design and make a variety of sweet and savoury products with a Mexican theme.

In practical work you will work out your ideas with some precision, considering how food products will be made, stored and eaten and who will use them. You will use a range of equipment safely with a moderate to high degree of accuracy.

Facts about the day of the dead Section 1

· It's not the same as Halloween.

· It originated in Mexico and Central America.

· It's a celebration of life, not death.

· The ofrenda is a central component.

• Flowers, butterflies and skulls are typically used as symbols.

· Following the Aztec tradition, skulls remain a vital part of

Día de Muertos today—but thankfully for the squeamish among us, they're mostly made of sugar.





Baking

Beating Batter



Stir frying



Reducing sauce

Boiling





Key Vocabulary: Section 3

Cross contamination, (noun) bacteria are spread from equipment, by air or touch from one food to another. Aesthetically pleasing (adjective) how a product looks, smells, and tastes.

9

Layering (noun) he process of joining together ingredients Vitamins (noun) Are found in food and only needed in small amounts.

Pathogenic bacteria (noun) Are bad bacteria that can cause food poisoning.

Glaze (noun) shiny layer used on pastries and breads to make them appealing.

Tolerance (noun) The correct colour, thickness and size of food

Function of ingredients. (noun) the job that the ingredient does in cooking.

Design Brief (noun) a task with detailed points to include in the solution.

Temperature probe. (noun) used for checking the temperature of high risk food eg. Meat.

Plating (noun) is the process of arranging and

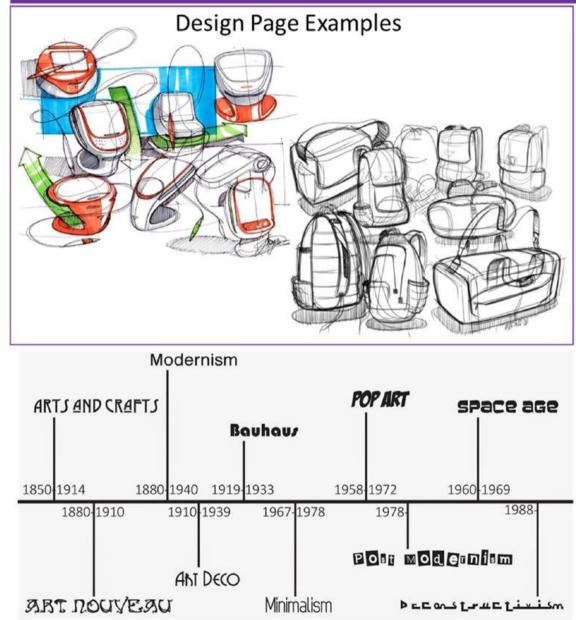
decorating food to enhance its presentation. Improving the presentation of a dish .

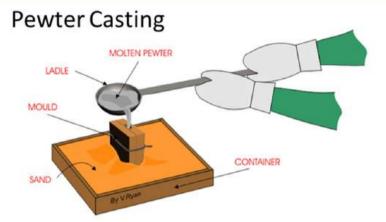
Boil (noun) to cook at full heat with the liquid rapidly bubbling.

Simmer (verb) to cook or cook in a liquid at or just below the boiling point.

Designing (adjective) creating ideas, sketches, plans and products.

Finish (noun) the final look and presentation of food. Forming (noun) shaping an ingredient into a shape e.g. meat into a burger. This cycle we will be conducting a full design and make project focusing on creating jewelery inspired by a chosen period of art and design.





Key Vocabulary:

Marking out (verb) is the process of transferring a design or pattern to a workpiece.

Metal Rule (noun) is a basic measuring tool used to create accurate measurements.

Try-square (noun) is a tool used to check and mark right angles in construction work.

Imperfection (noun) a fault, blemish, or undesirable feature. **File (noun)** is a*tool*to remove fine amounts of material from a workpiece.

Sand paper (noun) with sand or another abrasive stuck to it, used for smoothing or polishing woodwork or other surfaces. Design (noun) a plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.

Surface (noun) the outside part or uppermost layer of something.

Decoration (noun) the process or art of decorating something. **Evaluation (noun)** the making of a judgement about the amount, number, or value of something; assessment.

DAA CYCLE 3 Knowledge Organiser

This cycle we will be conducting a full design and make project focusing on creating jewelery inspired by a chosen period of art and design.

TOPIC(S)

JEWELERY DESIGN

A flate

1 - Draw the 3-Dimensional Cardboard Boxes below

SUBJECT

What is 3D (three dimensions or threedimensional Design)?

3D, or three dimensional, refers to the three spatial dimensions of width, height and depth.

The physical world and everything that is observed in it are three dimensional.

Package Protection Symbols 3 - Draw and label

4.Don't Open with Knife









2 - Draw and laBel



Triple wall

4 - Key Vocabulary:

Marking out (verb) is the process of transferring a design or pattern to a workpiece.

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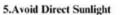
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Surface (noun) the outside part or uppermost layer of something.

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6.Temperature Sensitive

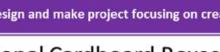
3.Handle with Care

7.Avoid Placing Near

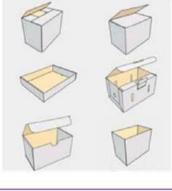
Magnets







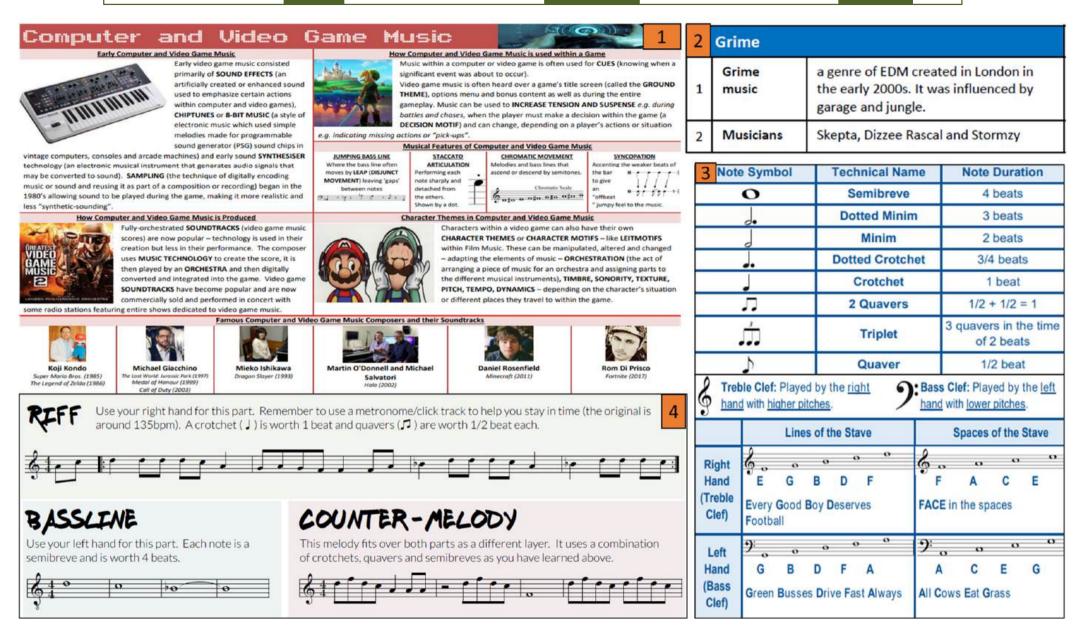
DESIGN TECHNOLOGY



YEAR GROUP

9

YEAR GROUP 9



| DAA CYCLE 3 Knowledge Organise | er SUBJECT | ICT & COMPUTING | TOPIC(S) PRE | -PRODUCTION DOCUMENTS | YEAR GROUP 9 |
|--------------------------------|------------|-----------------|--------------|-----------------------|----------------|
| Digital Graphics Keywords: | | | | | |
| Purpose | Audience | | Layout | Graphics | House Style |
| Text | Images | | Design | Create | Client |
| Vector | Bitmap | Co | ntingency | DPI | Pre-Production |
| Copyright | Assets | Со | mpression | Lossy | Lossless |

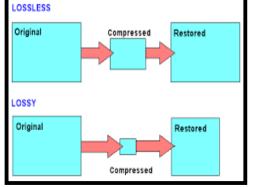
A graphic is a visual representation, they are visual images or designs. Graphics can be captured or created. They can be displayed digitally or physically (electronic or paper based).

| | | | | | | (6/6 | | er buscuj. |
|-------------------------------------|---|---|--|---|--|---|---|------------|
| Se | Section 1 | | | | | | | |
| Di | Different graphics | | Purp | ose | Examples | | | |
| Ac M Ca Bi W D Si | LogosInfeAdvertisementsPerMagazine coversAdvertisementsCartoonsProBillboardsEduWebsite imagesWaDVD and book coversGui | | Adve Pron Educ War Guid | uade ertise note cate n | | | | |
| 2 | of lines and shapes li e.g., a plan of a f room in a house, a company logo. E | | lines and front or remains Disadva | ages: Does not take u d shapes can be grou behind each other; t t the same as image i ntages: Only the col- es can be changed. | iped and placed in he quality s made bigger. | Software Adobe Illustrator | File Types: SVG Software: Al | |
| Section 2 | Bitmap | Created from rows of different coloured pixels that together form an image e.g. image taken from a | | our of each individua | uffers as the ng can be added | Software Adobe Photoshop Serif Draw Plus | File Types: JPEG, TIFF, PNG, GIF, BMP Software: PSD DPP | |

| | Section 3 |
|---------------|---|
| | Documents: created to plan and design before you dia product. Allows communication with the client and money. |
| Client Brief | A written report show that outlines your client and audience requirements for the media product. Content: purpose, audience, audience requirements, client requirements, success criteria, initial ideas. |
| Mind Map | Shows your ideas for the media product. Content: central node, sub nodes, connectors, text, images. |
| Mood board | Shows your creative ideas and overall theme. Content: colour scheme, images, typography Digital: sound, video and animation Physical: objects, materials, fabrics. |
| Script | A written document to show dialogue. Content: scene description and direction, characters, location, shot types. |
| Storyboard | A storyboard is used to illustrate a sequence of moving images and has a flow of scenes that follow a timeline. Content: timing, location, scene number, scene description, lighting, shot types, camera movements. |
| Visualisation | To plan the layout of a static or still image in a visual manner. To show what the finished item might look like. Content: size, dimensions, house style, colour, annotation. |

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| | Section 4 |
|-------------|---|
| Client | The client is the person who has asked you to create something, for |
| | example a local magazine. |
| Audience | The audience are the people who will use your product and who you |
| | must think of when designing and creating. |
| Software | Software is a set of instructions, data or programs used to operate |
| | computers and execute specific tasks. Adobe Photoshop is a program |
| | we use to edit and manipulate graphics. |
| Composition | The arrangement of text and images within a graphic. |
| Compression | Making a file smaller in some way, i.e., reduce its size for many |
| | reasons, such as transporting (e-mail, disk, usb etc.), or displaying on |
| | the web. |
| | The average person only waits 10 seconds for an image to load |
| | online. Images must be small enough in file size (KB) to load quickly. |
| Lossy | Permanently removes parts of an image that the human eye cannot |
| Compression | normally see. |
| | Depending upon the level of compression, the viewer may not notice what has been removed. |
| | Lossy can have different ranges of compression (e.g., low, medium, high), which affects the quality and file size of an image. Examples of file format is JPEG. |
| Lossless | Doesn't remove any parts of the image when compressing. Removes |
| Compression | 'redundant' data that is not needed in the image. The compressed |
| | version is the same as the original. Just a smaller files size. Used |
| | when the compressed image cannot have anything removed. |
| | Example file formats include GIF and PNG. |
| | LOSSLESS |



| | Section 5 |
|-------------|---|
| White Space | Alternatively referred to as spacing or whitespace, white space is any section of a document that is unused or space around an object. |
| DPI | Resolution determines the image quality. The higher the resolution, the better the quality of the image. DPI Determines the print/display quality of an image. The more 'dots' (pixels) that an image is made up of, the better the quality (resolution). In a <u>low-resolution image</u>, the pixels are larger and therefore, fewer are needed to fill the space. This results in images that look blocky or pixelated. An image with a <u>high resolution</u> has more pixels. 72 DP1 lower resolution, takes up less space, suitable for the web. 300 DPI higher resolution, takes up more space, suitable for printing. |
| Resolution | = DPI |
| File Size | = Width X Height |

N

| | | Section 6 | | | |
|---|-----------------|---|--------|-------|-------|
| Image File Types | • // | Image File Types used, some are better for web display, some for printing or both. | | | |
| JPEG | for compressing | Joint Photographic Experts Group WEB: Millions of colours. Good for compressing photos. Small files, but "lossy." Commonly used for photographs and web images. | | | |
| TIFF | | Tagged Image File Format: High colour quality and large file size, used for printing. | | | ze, |
| Web Images | Print Images | Software | Images | Sound | Video |
| JPEG – compressed PNG – transparency | TIFF PDF | PSD | JPEG | MP3 | MP4 |
| GIF – animated | | PPT | TIFF | WAV | MOV |
| BMP – bitmap SVG – vector | | DOC | PNG | | WMV |
| | | XLS | GIF | | |

PUB

TOPIC(S)

| | Section 7 |
|--------------------|--|
| Brand | A type of product manufactured by a particular company under |
| | a particular name. |
| Brand Identity | Is what other people think about you, your company, your |
| | product or service. Communicates values and core principles to the user or customer. |
| | |
| Examples of Brands | Nike, Adidas, Starbucks, IKEA. |
| Purpose | The reasons a product exists e.g. to entertain, promote, inform, |
| | educate, persuade, guide, warn. |
| Logo | Google Walmart 🛠 📑 Microsoft |
| Examples of logos | |
| | |
| | Hilton TARGET COCA Cola |
| | 🔉 XBOX <u></u> amazon |
| Visual Identity | What the brand looks like, a preview of your brand e.g. text, |
| | slogan, colour scheme, logo etc |
| Visual Identity | |
| Example | It is the <u>visual identity</u> for Asda. |
| | |
| | Save money. Live better. |
| | big big big big big big big big big big |
| | proud ASDA |

| | | Section 8 |
|--------------------|----|--|
| Components of | 1. | Name |
| /isual Identity | 2. | Logo |
| | 3. | Strapline |
| | 4. | Typography |
| | 5. | Colour scheme (colour palette) |
| | 6. | Layout |
| | 7. | Graphics (shapes and symbols) |
| here are 4 main | 1. | Recognition/Familiarity- People need to be able to |
| reas linked to the | | recognise the brand |
| ourpose of visual | 2. | Establish a Brand- Make the brand or business a |
| dentity. | | familiar name |
| | 3. | Develop brand loyalty- Buy the new products when |
| | | they are released |
| | 4. | Visual communication with |
| | | audience/consumer- Have a clear message to the |
| | | audience. |
| | | |
| | | |



DAA CYCLE 3 Knowledge Organiser

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SUBJECT BUSINESS STUDIES

TOPIC(S) MONEY MATTERS C3

YEAR GROUP 9

| Key outcomes | Topics covered | Key outcomes | Topics co |
|----------------------------------|---|--|--|
| ext steps after school | Start and apprenticeship Employment Go to university Student loans Student finance | Potential negative consequences of taking financial risk | Health and mental wellbeing Credit history Bankruptcy Lifestyles |
| orld of work | Earnings Payslips Tax codes National Insurance Gros pay Net pay | How to protect yourself against financial risk | Understanding your attitude to risk Budgeting and planning How insurance works Preparation and research Spread the risk Insurance |
| orld of work | Self employed Methods of payment Why we pay income tax Government spending State pension | Types of insurance | Home Contents Motor Life Health Travel |
| | Workplace pension Automatic enrolment for work place pensions Advantages of automatic enrolment for young people | Other forms of protection against financial risk | Industry regulators Statutory rights |
| o for people on low mes | National minimum wage National living wage Welfare system | Security and fraud | What is fraud? What is identity theft |
| and Reward | Risks associated with income Risks associated with spending and borrowing Risk that you might lose assets (mortgage repayments) | Methods used to carry out identity theft (Physical) | Bank card skimming Bank card scanning Theft |
| estment | Shares Collective investments Property and other commodities Investments – art, antiques, wine and classic cars | | Bin raiding Changing your address |
| nbling and taking ncial risks | Cryptocurrency Other rewards -Improved lifestyle -personal and moral satisfaction | Digital identity theft Social identity theft | Hacking/malware Phishing Vishing Smishing |

YEAR GROUP 9

Box No 1 : Methods of training: Flexibility

| Static Stretching | | |
|--|---|--|
| Static – Active: Active stretching, which is performed independently where the performer applies internal force to stretch and lengthen the muscle. Static – Passive: Passive stretching, also known as assisted stretching, which requires the help of another person or an object such as a wall. The other person/object applies external force causing the muscle to stretch. | | |
| Advantages | Disadvantages | |
| Safest method to use – less chance of injury Doesn't need other to support | Doesn't replicate movements from the sport Can lead to injury if not done correctly. | |

| Ballistic | | |
|---|---|--|
| Ballistic – This is where the performer makes fast, jerky movements through the complete range of motion, usually in the form of bobbing or bouncing. | | |
| Advantages | Disadvantages | |
| Replicates movements from the sport – | Can lead to injury if not done properly | |
| Specificity. | Can cause muscles to tighten | |
| Can do on your own without others. | | |

| PNF - Proprioceptive neuromuscular facilitation | | |
|--|--|--|
| PNF - This is used to develop mobility, strength and flexibility. The technique may be performed with the help of a partner or alternatively by using an immovable object. PNF stretches can be used in rehabilitation programmes. | | |
| Advantages | Disadvantages | |
| Flexibility training can be made sport specific. | Needs to be an experienced person to perform PNF stretching safely. | |
| Little cost involved | May require two individuals working together to perform the technique. | |
| Can be part of rehabilitation and reduce injuries. | | |

Box No 2 : Methods of training: Aerobic endurance

| Continuous Training | | |
|---|---|--|
| Continuous – This is training at a steady pace and moderate intensity for a minimum period of 30 minutes. | | |
| Advantages | Disadvantages | |
| Running is cheap/free Can really improve aerobic endurance Can be done with no equipment. | Individuals can have problems with motivation as it can be repetitive and boring. | |

| Interval Training | | |
|--|--|--|
| This is where the individual performs a work period followed by a rest or recovery period. Typical work time can vary from training for 30 seconds to five minutes; recovery periods can be complete rest, walking or light jogging. | | |
| Advantages | Disadvantages | |
| Can be used to develop a number of fitness components such as aerobic endurance and speed. Low cost and little equipment | Fatigue can occur quite quickly so hard to continue intensity. Risk of injury Overtraining could happen. | |

| Fartlek Trai | ining |
|--------------|-------|
|--------------|-------|

This is where the intensity of training is varied by running at different speeds or over different terrain. The training is continuous with no rest period. It is important to know about other ways in which intensity of training can be increased, including the use of equipment (harness, running with weights or weighted backpack).

| Advantages | Disadvantages |
|--|--|
| Suitable for games players e.g. footballer | Motivation levels |
| Can be made sport specific. | Having access to different terrains. |

YEAR GROUP 9

Box No 3 : Methods of training: Aerobic endurance

Free weight training:

Use of barbells or dumb-bells to perform different types of dynamic exercises. - concepts to use when training for strength (low reps and high loads) - when training for endurance (high reps and low loads).

| Advantages | Disadvantages |
|---|---|
| Training can be sporting specific targeting specific muscles and muscle groups. Effective method for strength and endurance gains. | Session needs careful organisation, ensuring correct, safe technique. May need access to a gym/sports centre for equipment. Can be expensive equipment May need a spotter. |

Plyometric Training

This type of training develops sport-specific explosive power and strength. It is used by sports performers such as sprinters, hurdlers, and netball, volleyball and basketball players. Plyometric exercises need maximal force as the muscle lengthens (eccentric action) before an immediate maximal force as the muscle shortens (concentric action). Types of exercises include lunging, bounding, incline press-ups, barrier hopping and jumping.

| Advantages | Disadvantages |
|---|---|
| Can be adapted to suit a variety of sports. | Not suitable for young athletes Need to be careful with technique to avoid injury. |

| Free weight training: | | |
|--|--|--|
| This is where different stations/exercises are used to develop strength, muscular endurance and power. The stations/exercises use different muscle groups to avoid fatigue. | | |
| Advantages | Disadvantages | |
| Can be adapted to suit a variety of sports. | Often requires lots of space and specialist equipment. | |

Box No 4 : Methods of training: Speed

| Hollow Sprints | | |
|--|--|--|
| Hollow Sprints – A series of sprints separated by a 'hollow' period of jogging or walking. | | |
| Advantages | Disadvantages | |
| Low cost | Motivation levels | |
| Can improve speed | Need to be careful not to overtrain. | |

| Acceleration Sprints | | | | | |
|--|-------------------------------|--|--|--|--|
| This type of training develops sport-specific explosive power and strength. It is used by sports performers such as sprinters, hurdlers, and netball, volleyball and basketball This is where the pace is gradually increased from a standing or rolling start to jogging, then to striding, and then to a maximum sprint. Different drills can be used, such as resistance drills and hill sprints. Rest intervals of jogging or walking are used in between each repetition. | | | | | |
| Advantages | Disadvantages | | | | |
| Low cost | Beginner needs to know how | | | | |
| Easy to conduct training | Be careful not to over train. | | | | |
| No/Minimal equipment. | | | | | |

| Interval Training | | | | | | |
|---|---------------------------|--|--|--|--|--|
| The individual performs a work period followed by a rest or recovery period. For speed training, the work intervals will be shorter and more intense – performed at a high intensity, close to maximum. Increase the number of rest periods and increase work intensity to develop speed. | | | | | | |
| Advantages | Disadvantages | | | | | |
| Sports specific to games players | Careful not to over train | | | | | |
| Can improve speed | | | | | | |
| Low cost | | | | | | |

Key Terms Topic area 1—The rights of service users in health and social care settings Topic area 3-Effective communication in health and social care settings Jargon-specialist or technical language, or terms and abbreviations, that are difficult for non-specialists to Law - These are passed by Parliament and state the rights and entitlements of service users. If someone breaks the law, they can be prosecuted by being taken to court. understand. Equality Act 2010 – a law intended to prevent discriminatory practice, to ensure service users are treated Sonographer – A health professional who is specially trained to carry out ultrasound scans. fairly. Obstetrician – A doctor specialising in the care and births of pregnant women if there are any Confidentiality - Limits access or places restrictions on sharing certain types of sensitive infor-mation such complications. as medical records, so that is private. Anaesthetist – A doctor who specialises in pain relief and anaesthetics during surgery. Need to know basis - Information is only shared with those directly involved with the care and support Podiatrists – A practitioner who provides foot care such as removing ingrowing toe nails. of the service users. Dementia—A group of symptoms that affect how a person thinks, remembers, solves prob-lems, uses Safeguarding – Actions taken to protect service users by ensuring a safe and healthy environ- ment where language, communicates and carries out tasks and activities. the risks of danger, harm or abuse are reduced. Topic area 4—Protecting service users and service providers in health and social care Manual handling - Using the correct procedures when physically moving any load by lifting, putting down, Disclosure—This is when a service users tells you directly/indirectly through their behaviour, that they have pushing or pulling; for example transferring a client from a chair to a bed. been/are being abused. **Consultation** – The process of discussing an issues with another person in order to receive their thoughts, Vulnerable — A word to describe someone who is less able to protect themselves from harm or exploitation advice or opinion, so that a decision can be made that is acceptable and ap-propriate for all involved. due to things such as mental health problems, learning/physical disabilities such as mobility, hearing or sight problems. Empowerment - Giving someone the authority or control to do something. The way a health or social care service provider encourages a service user to make decisions and to take control of their own life. Hygiene—Practices that keep yourself and your surroundings clean in order to prevent illness or the spread of disease. Self-esteem – How much a person values themselves and the life they live. High self-esteem is associated with people who are happy and confident. A service user with low self-esteem experiences feelings of Infection—What happens when germs invade the body and cause disease or illness. unhappiness and worthlessness. Sharps—Needles that are inserted into veins to administer medication which can cause acci-dental injuries if not used properly. Topic area 2—Person-centred values Equality - This means treating people fairly and valuing them for who they are. Everyone should be Safety procedure/measure—A set process that is followed, such as a fire drill or risk assess- ments/A provided with the same rights and opportunities, this should not be affected by their age, ability, particular action such as putting up a wet floor sign gender, culture or religion. First aid— The immediate treatment provided for a service user who has an accident or is suddenly taken ill. Valuing diversity – Accepting and respecting individual differences such as faith, diet, sexuali-ty, ethnicity Anaphylactic shock—An extreme allergic reaction commonly caused by nuts, seafood and insect stings. An and customs. Adrenaline auto-injector (EpiPen) is used to administer a dose of adrenaline.

1.1 Types of care settings

| Health care settings | | | Socia | Social care settings | | | | | |
|--|--|---------|---|--|---|---|--|--|--|
| Examples: Description | | ription | Examples: | | Description: | | | | |
| 1. 2. 3. 4. 5. 6. 7. | Hospitals Pharmacy Nursing home Optician GP Surgery Dentist Clinic | • | Health care is when efforts are made to maintain or restore physical, mental, or emotional well-being especially by trained and licensed professionals. A health care setting represents a broad array of services and places where people can visit to receive help and advice of how to deal with medical conditions that they may be suffering from. Some health care services are provided in private offices or homes. | 1. 2. 3. 4. 5. 6. 7. | Retirement home Day centre Residential home Community centre Support groups Social services department Lunch club | • | Social care services provide support to people with learning disabilities, physical disabilities/illnesses and mental illnesses. This support can cover practical activities, personal care and social work, intended to help the people receiving social care to live comfortably. It includes all forms of personal care and other practical assistance for children, young people and adults who | | |
| 8. | Drop in centre | | | 8. | Medical centre | | need extra support. | | |

1.2 The rights of service users - Triple C, P, E

| | Rights are what everyone is legally entitled to. Rights are set out and supported by government legislations. | | | | | | | | | |
|---|---|--|--|---|---|--|---|----|--|--|
| Choice | | Confidentiality | | Consultation | | Equal and fair treatment | | | Protection from abuse and harm | |
| Allowing the service user to make decisions about the care they receive, where it is received and what it includes. | | information about themselves restricted to | | Clearly setting out to the service user the options available to them. Asking the service user their permission before carrying out treatment. | | Treating an individual fairly based on their needs, this may involve giving some individuals more care than others e.g. disabled. | | | Care workers protecting vulnerable people from: physical, emotional, sexual and verbal abuse, and neglect. | |
| Examples: | | Examples: | | Examples: | | Exam | Examples: | | Examples: | |
| 1. | Residential care home, residents should be given a choice of food options that takes into account dietary requirements or religious requirements. | 1. | Meetings about service users should take place in private where information cannot be overheard by people who do not need to know about that | 1. | Before any medical treatment is given, a service user should be informed about different options and given the opportunity to share their own opinion about | 1. | Care plans should be personalised to reflect the likes, dislikes, personal history and beliefs of each individual. Providing entertainment within a | 1. | Unexplained injuries, to a service user are reported to the nearest safeguarding lead to ensure that it is documented and can be investigated. | |
| 2. | In a GP practice, patients should be given a choice of who their GP is and where and how they receive treatment. | 2. | individual. A service users personal details should not be shared as it could put them at risk. | 2. | what type of car they would like. A wheel chair should be asked if they would like assistance with something before it is given | | care home setting where there are residents with hearing and visual impairments who are not catered for. | 2. | Ensuring that there are adequate supports and handle bars for a older adult tot move safely around their care house. | |

9

| 1.3 The benefits to service users' health and wellbeing when rights are maintained | | | | | | |
|---|--|--|--|--|--|--|
| Empowerment | High Self-esteem | Service users needs are met | Trust | | | |
| Meaning: | Meaning: | Meaning: | Meaning: | | | |
| The process of becoming stronger and more confident, especially in controlling one's life and claiming one's rights. | Self-esteem is an individual's subjective evaluation of their own worth. Self-esteem encompasses beliefs about oneself as well as emotional states, such as triumph, despair, pride, and shame. | If a service users needs are met, any physical, social or mental issues which they may have will have been considered and plans will be made and actioned to support them. | Having a firm belief in the reliability, truth, o ability of someone or something. | | | |
| Encourages independence and being self | Feeling valued and confident | Appropriate care or treatment | Reassured that service users will not harm | | | |
| reliant | • A child will feel valued if their opinion | Dietary requirements met | them | | | |
| Often allowing service users the opportunity to complete tasks such as getting dressed on their own | or contribution is listened to during group activities, making them feel more confident around others. | Support given when needed to allow inclusion for service users during activities such as mobility aids | Build good relationships with service users Confident that service providers have service | | | |
| Feeling in control of their own lives | Feeling respected | Adaptations make to treatment plans | users best interests in mind | | | |
| Allowing service users to make decisions for themselves such as activities they want to get involved in, food choices and choice of clothing. <u>Gives service users choice, control and</u> independence Enabling the service user to input on all aspects of their own care such as choosing their medication based on the symptoms and side effects explained by the doctor. | If a person's needs are catered for such as having alternative food options such as halal, vegetarian/vegan options will make their views feel respected and more included. <u>Having positive mental health</u> Making a person feel included in activities or discussions will improve their self-esteem, thus improving their mental health which will therefore improve their quality of life. | and activities to promote inclusion of all needs and abilities <u>Results in good/improving physical and mental</u> <u>A plan for treatment for the service</u> user will lead to an improvement in injury/illness. Improvement in physical and mental health will encourage a healthier lifestyle and quality of care for each | All treatment/care and activities are carefully planned and adapted to cate for the individuals needs and abilities <u>Confident in the care that they receive</u>. Service providers and practitioners will provide a safe environment and will explain the treatment/care to the individual so that they understand why this is being provided for them. | | | |
| empower health | Self care isn't selfish. It's self esteem | individual/group Patients' Rights | supporting the emotional wellbeing and mental health of children and young people | | | |

1.3 The benefits to service users' health and wellbeing when rights are maintained

Stay safe,

tell someone...

All the staff are here to help and support you

Safety and well-being...

If you are worried about your welfare or safety, or that of a friends you could access the NSPCC services. <u>www.childline.org.uk</u>

Free anonymous NHS online counselling for young people can be accessed via a platform called Kooth. <u>www.Kooth.com</u>

For support with mental health and staying happy and healthy visit the Mental Health Foundation. <u>www.mentalhealth.org.uk</u>

For non-emergency advice you can email <u>scholarsupport@dixonsaa.com.</u> Give your full name and Year group.



Online safety...

Thinkuknow is the education programme from NCA-CEOP, a UK organisation which protects children both online and offline.

Explore one of the six ThinkuKnow websites for advice about staying safe when you are using a phone, tablet or computer.

Happiness Industry







Safeguarding Team:

Mr Bibby (Designated Safeguarding Lead) Mr Douro (Vice Principal)

Physical activity...

It is recommended that young people should be physically active for at least 1 hour a day. This can be anything from organised sport to going on a bike ride with your friends. For more ideas visit; www.nhs.uk/change4life/activities





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