

KNOWLEDGE ORGANISER YEAR 9 2024/2025

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Student Number:

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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 asyou can. Taking responsibility for your learning will help you to be successful at DAA.

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WEEK 2	
1. tertiary	A job type which involves providing a service.
2. composition	The way elements of artwork are arranged or combined.
3. monotheism	Belief in one God.
4. patriarchal	Ruled or controlled by men.
5. flammable	Sets on fire easily.
6. precipitation	Any form of water falling from the sky.
7. hypothesis	A prediction about what you think will happen in an investigation.
8. exodus	A journey.
9. protagonist	Main character in a narrative.
10. integer	A whole number (not a fraction)

WEEK 3	
1. identity	Characteristics determining who or what something is.
2. pathogens	Bacteria such as food poisoning bacteria.
3. chronology	Historical events in the correct order.
4. misinformation	A deliberate lie to mislead somebody.
5. melody	The main 'tune' of the song that you could sing to
6. segregation	Separating people based on race, class and social factors.
7. progression	Getting better.
8. faith	Having trust in someone.
9. Monarchy	Country where the Head of State is King or Queen .
10. molecule	A group of atoms chemically joined together.

CYCLE 1 SPELLINGS

WEEK 4	
1. empathy	Ability to understand and feel others' emotions.
2. century	Time span of 100 years
3. hoax	A trick in which someone tells people a lie.
4. harmony	Chords that support the melody
5. covenant	A serious promise.
6. regression	Getting worse.
7. accent	The way of pronouncing words associated with an area or place.
8. mixtures	Two or more substances mixed together but not chemically joined .
9.dialogue	The spoken script on stage.
10. source	Evidence made at the time of an historical event.

WEEK 5	
1. activist	Someone who is active in political and social causes.
2. decade	Time span of 10 years.
3. domain	A website name.
4. conductor	Leads the orchestra and any other large ensemble.
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 6	
1. injustice	Unfair behaviour or treatment
2. Millennium	Time span of 1000 years.
3. bias	Feeling or prejudice for or against one person or group.
4. orchestra	A large ensemble of musicians playing instruments.
5. polytheist	Believing in many Gods.
6. colloquial	Informal language used in conversation.
7. opinion	A view or judgement formed about something.
8. gesture	An expression or movement of the body.
9. interpretation	Evidence showing an opinion on an event.
10. atom	A tiny particle.

WEEK 7	
1. status	The level of society a character is in.
2. democracy	System where people can vote for the government.
3. tension	Where the mood atmosphere in a novel is strained.
4. heritage	Range of inherited traditions / cultures.
5. systemic	Implies problems are rooted in the way systems are set up.
6. development	The process of a county improving over time.
7. migration	People moving around.
8. monologue	One person delivering a speech or their thoughts to the audience.
9. intonation	Variation of spoken pitch.
10. liberty	State of being free from oppression.

CYCLE 1 SPELLINGS

WEEK 8	
1. tertiary	A job type which involves providing a service.
2. composition	The way elements of artwork are arranged or combined.
3. monotheism	Belief in one God.
4. patriarchal	Ruled or controlled by men.
5. flammable	Sets on fire easily.
6. precipitation	Any form of water falling from the sky.
7. hypothesis	Prediction about what you think will happen in an investigation.
8. exodus	A journey.
9. protagonist	Main character in a narrative.
10. integer	A whole number (not a fraction)

WEEK 9	
1. identity	Characteristics determining who or what something is.
2. pathogens	Bacteria such as food poisoning bacteria.
3. chronology	Historical events in the correct order.
4. misinformation	A deliberate lie to mislead somebody.
5. melody	The main 'tune' of the song that you could sing to
6. segregation	Separating people based on race, class and social factors.
7. progression	Getting better.
8. faith	Having trust in someone.
9. Monarchy	Country where the Head of State is King or Queen.
10. molecule	A group of atoms chemically joined together.

WEEK 10	
1. empathy	Ability to understand and feel others' emotions.
2. century	Time span of 100 years
3. hoax	A trick in which someone tells people a lie.
4. harmony	Chords that support the melody
5. covenant	A serious promise.
6. regression	Getting worse.
7. accent	The way of pronouncing words associated with an area or place.
8. mixtures	Two or more substances mixed but not chemically joined.
9.dialogue	The spoken script on stage.
10. source	Evidence made at the time of an historical event.

WEEK 11	
1. activist	Someone who is active in political and social causes.
2. decade	Time span of 10 years.
3. domain	A website name.
4. conductor	Leads the orchestra and any other large ensemble.
5. stewardship	To look after the world and each other.
6. faith	Having trust in someone.
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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.

CYCLE 1 SPELLINGS

WEEK 12	
1. injustice	Unfair behaviour or treatment
2. Millennium	Time span of 1000 years.
3. bias	Feeling or prejudice for or against one person or group.
4. orchestra	A large ensemble of musicians playing instruments.
5. polytheist	Believing in many Gods.
6. colloquial	Informal language used in conversation.
7. opinion	A view or judgement formed about something.
8. gesture	An expression or movement of the body.
9. interpretation	Evidence showing an opinion on an event.
10. atom	A tiny particle.

WEEK 13	
1. status	The level of society a character is in.
2. democracy	System where people can vote for the government.
3. tension	Where the mood atmosphere in a novel is strained.
4. heritage	Range of inherited traditions / cultures.
5. systemic	Implies problems are rooted in the way systems are set up.
6. development	The process of a county improving over time.
7. migration	People moving around.
8. monologue	One person delivering a speech or their thoughts to the audience.
9. intonation	Variation of spoken pitch.
10. liberty	State of being free from oppression.

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
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

NOTES

	1.1 Cathia Camanatiana			
		1 Gothic Conventions		
1.	Extreme	Dark, wild, and treacherous place full of		
	landscapes	wrathful weather, malevolent forests,		
		and ghostly graveyards.		
2.	Dark,	Haunted houses, cobwebbed castles,		
	abandoned	derelict churches, and other once-glorious		
	buildings	architecture that has fallen into disrepair.		
3.	Gothic	"Gothic" also alludes to a style of grand,		
	architecture	ornate architecture in France in the 12th		
		century		
4.	Romanticised	In line with its settings, Gothic literature		
	past	often romanticizes and revisits the past.		
5.	Gothic plots	Include revenge, familial secrets,		
		prophecies, and curses. The past is		
		somehow still living, breathing, and		
		controlling the drama.		
6.	Terror	Suspenseful feelings of fear, fear of		
		death, shock, dread, or disgust in the		
		reader.		
_	Cuparpatural	Daniela de la constante de la		
7.	Supernatural	Demons, witches, ghosts, banshees,		
/.	monsters	vampires, and other supernatural		
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9.	Byronic Hero Femme Fatale	vampires, and other supernatural creatures often play parts in Gothic fiction. Portrayed as a flawed, lonesome, isolated, or outcast figure who has to overcome obstacles in order to re-join society. An attractive and seductive woman, especially one who will ultimately cause distress to a man who becomes involved with her.		
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	1.3 Key Writers
Charlotte Bronte	1816-1855 was an English novelist and poet, and the oldest of the three Brontë sisters, native to
	Yorkshire, survived into adulthood and whose novels became classics of English literature.
Mary Shelley	1797 – 1851 was an English novelist who wrote the Gothic novel Frankenstein; or, The Modern
	Prometheus (1818). She also edited and promoted the works of her husband, the Romantic poet and
	philosopher Percy Bysshe Shelley.
Robert Louis	1850-1894 was a Scottish novelist and travel writer, most noted for Treasure Island, Kidnapped,
Stevenson	Strange Case of Dr Jekyll and Mr. Hyde, and A Child's Garden of Verses.
Angela Carter	1940 – 1992 was an English novelist, short story writer, poet, and journalist, known for her feminist
	and magical realism. Carter was especially well known for taking the classic patriarchal fairy tale and
	creating a feminist, macabre twist.
Oscar Wilde	1854-1900 was an Anglo-Irish playwright, novelist, poet, and critic. He is regarded as one of the
	greatest playwrights of the Victorian Era. In his lifetime he wrote nine plays, one novel, and
	numerous poems, short stories, and essays.

	Key Themes
Insanity &	Gothic literature often focuses on psychological 'flips,' losing a grasp of reality, descending into madness
violence	and intense violence against the innocent. Examples include the eponymous Mr. Hyde, who rampages
	through London, maiming and killing anybody in his way.
The 'uncanny'	The uncanny can often be a sinister aspect of the gothic due to its uncomfortable familiarity with the human body which is often distorted . Examples include IT, zombies and dolls.
The 'sublime'	Landscapes which insight both awe and terror. They are often vast and wild.
Death & the supernatural	Humankind's fear of death is often a focal point of gothic literature, explored through vampires, ghosts and supernatural monsters who transcend death .

DAA CYCLE 1 KNOWLEDGE ORGANISER SUBJECT ENGLISH TOPIC(S) GOTHIC LITERATURE YEAR GROUP 9

	The Social and Historical Context of the 19 th Century
Social Class	 By 1860, although most people in Britain could read and write, books were well beyond the income of ordinary people. Many novels were published in parts—in the three-volume form, or by a monthly dose, or even in a weekly magazine. Society was strictly layered - not only into rich and poor, or even upper, middle and lower class, but hundreds of 'grades'. People were expected to 'know their place', and the Church taught them to be content in their 'station'. At the time, many people were becoming aware of the need to improve the condition in which the poor found themselves. Britain had narrowly escaped revolution unlike it's European counterparts.
Industrial Revolution	 From 1780 factory owners in Britain began to use coal-fired steam engines to power the machines in big factories, bringing great fortune. The Victorian period saw many major developments that made travel, communications and trade easier for many people. The railways allowed people to travel cheaply and rapidly, opening up new possibilities for both rich and poor. The 1840s was a time of railway madness. Trains were cheaper and faster than canal boats or horse drawn carriages. Many of the things we take for granted today, such as photography, telephones, electric light bulbs and cars were invented during Queen Victoria's reign. People flocked from the countryside to the cities. London's population between 1800 and 1900 from 1 million to 6 million people. Everything converted from traditional, manual labour to machine-driven, highly-productive labour. This caused a reduction in the amount of men needed for work, which therefore increased poverty levels and crime in the cities. Working with machinery was also was more dangerous and life threatening for the workers. This led to over-crowding and hunger, disease and crime. There were no proper drainage / sewage systems. Many families had to share one tap / toilet. Children suffered the most and were exploited by factory owners who forced them to work long hours in dangerous conditions. The spread of education and affluence in the Victorian era encouraged innovation, experimentation and scientific ideas. Rights and privileges of Victorian women were limited, and both single and married women had to live with hardships and disadvantages. Victorian women were disadvantaged both financially and sexually, enduring inequalities within their marriages and society. There were sharp distinctions between men's and women's rights during this era; men were allotted more stability, financial status and power over their homes and women.
Rights	clean home, to put food on the table and to raise their children. 6. Women's rights were extremely limited in this era, losing ownership of their wages, all of their physical property, excluding land property, and all other cash they generated once married.
Religion	 Christianity held a strong influence in Victorian Britain, especially amongst the middle / upper classes. Good Christians believed in a strict moral code – attending church regularly. Sabbatarianism – when people spent Sunday going to church and resting. Dickens was opposed to this because it meant that working poorer people were denied any enjoyment on their one day off – everything was shut. Charles Darwin's On the Origin of Species (1859) seemed to disprove creation (the belief that God created the world and that it had started with Adam and Eve), and substituted the new idea of 'evolution'. Many people saw science and a belief in religion and the supernatural as being at odds with each other. A lot felt they had to choose between the two. And many believed that science had become dangerous and was meddling in matters which only God had control over.
Capitalism	 The word capital means "something of value". Capitalism is an economic system in which people who own the means of production (factories, land, shops, tools, machines, shipping companies etc.) are able to make a lot of money by producing what people want and need. The profit is not shared with the employees. Some people argue that this system hurts workers, because businesses make more money by selling things than they pay the workers. Business owners become rich while workers remain poor and exploited.

SECTIONS 1

PROPERTIE	PROPERTIES OF 3D SOLIDS	
surface	the outside layer of an object, it has an area and can be flat or curved	
face	any of the individual flat surfaces of a solid object	
edge	for a 3D shape, the line segment where two faces meet	
vertex (vertice s)	for a 3D shape, the point where two or more edges meet , a corner	

SECTION 2

2D REPRESENTATIONS OF 3D SHAPES	
plan	a 2D view of a 3D solid as viewed from above, birds-eye view
elevation	the 2D view of a 3D solid from the front or the side
net	a pattern that you can cut and fold to make a model of a 3D shape

SECTION 4

SURFACE AREA		
surface area	the total area of all the surfaces on a 3D shape	
surface area method	find the area of each face separ them together	rately, then add
surface area	$A = 4\pi r^2$	
of a sphere		

SECTION 3

VOLUME			
volume	the amount of space a 3D shape takes up		
volume units	mm ³ , cm ³ , m ³		
prism	volume = area of cross section	n x length	
cube	volume = one side cubed (or, area of square x length of prism)	$V = l^3$	
cuboid	volume = area of rectangle x length of prism	V = lbh	
triangular prism	volume = area of triangle x length of prism	$V = \frac{lbh}{2}$	
cylinder	volume = area of circle x length of prism	$V = \pi r^2 h$	
pyramid	volume = $\frac{1}{3}$ x area of cross s	section x length	
square based pyramid	volume = $\frac{1}{3}$ x area of square base x height of pyramid	$V = \frac{lwh}{3}$	
cone	volume = $\frac{1}{3}$ x area of circle base x height of cone	$V = \frac{\pi r^2 h}{3}$	
sphere	$V = \frac{4}{3}\pi r^3$		

SECTION 5

DISPLAYING BIVARIATE DATA				
bivariate data	data containing two variables			
variable	something that can change or vary			
two-way table	shows information about two variables which do not overlap, the numbers represent frequencies			
scatter graph	a graph to show bivariate da	ata		
correlation	when there is a relationship between two sets of data, but we don't know if one caused the other			
causation	when the independent variable causes the dependent variable			
positive correlation	as one variable increases, the other increases			
negative correlation	as one variable increases, the other decreases	**************************************		
no correlation	there is no relationship between the two variables			
line of best fit	a line that best represents the data on a scatter graph In maths GCSE it is always straight, but in science it car be curved	x x x x x x x x x x x x x x x x x x x		
outlier	a value that 'lies outside' mo values in a set of data, it is n much larger than the other data	nuch smaller or		

SECTION 6

AVERAGES AND RANGE FROM A FREQUENCY TABLE				
mean	method: multiply the variables by their frequencies (fx column), total the fx column, divide by total frequency			
mode / modal class	the most frequent value or class; the one with the highest frequency			
median	use half the total frequency to find the middle position, then locate the row this occurs in using the 'subtotal' column			
range	difference between the largest and smallest values of the variable (first column)			

SECTION 7

DISPLAYING UNGROUPED DISCRETE NUMERICAL DATA				
stem and leaf diagram	a way of displaying a list of numbers	stem	leaf	
	the stem goes down and the leaves go out to the right, It has a key	5 6 7	6 7,7,9 2,4,7,7,8	
vertical line graph	like a bar chart, but the bars have no width, they are just straight lines up the page	10 8 6 4 2 2 0 5	6 7 8	

SECTION 8

COORDINATES	
axis (plural: axes)	the x axis is horizontal the y axis is vertical
quadrant	the four regions separated by the axes
coordinate (3,2) e.g.	give a position of a point on a grid the first number (x) moves left (-) or right (+) the second number (y) moves up (+) or down (-) (x, y) e.g. (3,2) means the point that is 3 to the right and 2 up from the origin
origin	the coordinate (0, 0)
line segment	a line joining two points
length of line segment	distance between two points calculated using Pythagoras' theorem.
Pythagoras' theorem	a relationship between the 3 sides on a right angled triangle $\mathbf{a}^2 + \mathbf{b}^2 = \mathbf{c}^2$
midpoint	the middle of a line segment

TOPIC(S)

SCIENCE

9

SUBJECT

2.2 - Chemical Symbols of Elements					
С	carbon	Не	helium	N	nitrogen
Н	hydrogen	F	fluorine	S	sulphur
О	oxygen	Cl	chlorine	Ве	beryllium
Li	lithium	Br	bromine	Cu	copper
Na	sodium	Mg	magnesium	Fe	iron
K	potassium	Ca	calcium	Ne	neon

2.3 - Properties of Metals and Non-Metals **Properties** Metals **Non-Metals**

Periodic Table	Left hand side	Right hand side	
Do thou conduct?	Conductors of heat and	Insulators of heat and	
Do they conduct?	electricity	electricity	
Appearance	Shiny (when polished)	Dull	
Donaitu	High density (heavy for	Low density (light for their	
Density	their size)	size)	
	Malleable (can be bent or		
Mechanical	hammered into shape)	Brittle (breaks easily)	
Properties	Ductile (can be pulled into		
	wires)		
Sonorous?	Sonorous (makes a ringing	Not compress	
Sonorous?	sound when hit)	Not sonorous	

2.4 - Elements, Compounds and Mixtures				
Element	Substance made up of only one type of atom .			
Compound	Substance made up of two or more types of <u>atom</u> , chemically joined together.			
Mixture	Two or more substances mixed together but not chemically joined.			
Chemical Reaction	A change in which atoms are rearranged and new substances are made. Often irreversible.			
Physical Change	A change in which no new substances are made. <u>E.g.</u> changes of state . Often reversible .			
Namina	Rule 1: Use for metal + non-metal. Metal goes first, then non-metal changes ending to –ide. <u>E.g.</u> iron + sulphur -> iron sulphide			
Naming compounds	Rule 2: Use for metal + non-metal + oxygen. Metal goes first, then non-metal changes ending to –ate. <u>E.g.</u> copper + sulphur + oxygen -> copper sulphate			

2.5 - Chemical Formulae of Substances					
H ₂ O	water	H ₂	hydrogen	C ₆ H ₁₂ O ₆	glucose
CO ₂	carbon dioxide	Cl ₂	chlorine	NH₃	ammonia
O ₂	oxygen	CH ₄	methane	NaCl	sodium chloride
N ₂	nitrogen	со	carbon monoxide	CuSO ₄	copper sulphate

4.1 – Chemical Equations		
Reactants	Substances which react together . Found on left side of equation.	
Products	Substances produced in a reaction. Found on right side of equation.	
Word Equation	Uses names of substances . <u>e.g.</u> iron + oxygen -> iron oxide	
Symbol Equation	Uses chemical formulas of substances . <u>e.g.</u> 4 Fe + 3 O ₂ -> 2 Fe ₂ O ₃	
Balancing Symbol Equations	Must be the same number of atoms of each element on each side of the equation. Balance equations by putting large numbers in front of formulas.	
Conservation of Mass	Mass is conserved (stays the same) in a reaction. No atoms are lost or made. Total mass of reactants = total mass of products.	

SUBJECT

SCIENCE

1.1 - States of N	/latter
Solids	Particles are close together and regularly arranged. Particles vibrate around fixed positions. Strong forces between particles.
	Fixed shape. Fixed volume. Cannot flow. Cannot be compressed. High density.
Liquids	Particles are close together and randomly arranged. Particles move around each other. Weak forces between particles.
	No fixed shape. Fixed Volume. Can flow. Cannot be compressed. Medium density.
Gases	Particles are far apart and randomly arranged. Particles move quickly in all directions. No forces between particles.
	No fixed shape. No fixed volume. Can flow. Can be compressed. Low density.
1.2 - Changes of	f State

1.2 - Changes of State		
Melting	When a solid is heated and turns into a liquid .	
Boiling / Evaporating	When a liquid is heated and turns into a gas .	
Condensing	When a gas is cooled and turns into a liquid.	
Freezing	When a liquid is cooled and turns into a solid .	
Subliming	When a solid is heated and turns into a gas.	
Melting Point	Temperature at which a substance melts when heated or freezes when cooled. (MP of ice = 0°C)	
Boiling Point	Temperature at which a substance boils when heated or condenses when cooled. (BP of water = 100 °C)	

1.3 - Solutions		
Solution	A mixture formed when a solute dissolves in a solvent.	
Solvent	The liquid part of a solution e.g. water , ethanol .	
Solute	The substance dissolved in the solvent e.g. sugar, salt, carbon dioxide, copper sulphate.	
Soluble	Will dissolve in a solvent e.g. sugar in water.	
Insoluble	Will <u>not</u> dissolve in a solvent e.g. sand in water.	
A solution that contains the maximum amount of solute that can be dissolved at that particular temperature.		
1.4 - Separating Mixtures		
Filtration	Separates an insoluble solid from a mixture . E.g. sand from water.	
<u> </u>	Pour mixture through filter paper in a funnel. Collect filtrate in a conical flask. Residue collects in paper.	

SUBJECT

1 – Structure o	1 – Structure of Atoms	
Atoms	All substances are made of atoms. Radius of atom = 0.1 nm (1 x 10 ⁻¹⁰ m)	
Protons	Mass = 1, charge = +1, location = nucleus.	
Neutrons	Mass = 1, charge = 0, location = nucleus.	
Electrons	Mass = very small , charge = -1 , location = shells .	
Nucleus	Most of the mass is concentrated here. Positively charged. Radius of nucleus = 1×10^{-14} m (1/10000 of radius of atom).	
Shells / Energy Levels	1 st shell = 2 electrons max, 2 nd shell = 8 electrons <u>max,</u> 3 rd shell = 8 electrons max.	
Overall Charge on Atom	Zero charge (neutral) because proton charge = +1, electron charge = -1. Same number of protons and electrons so charges cancel out.	
2 <u>- Atomic</u> Nui	mber, Mass Number and Isotopes	
Atomic number	Number of protons . (Also gives number of electrons)	
Mass number	Total number of protons and neutrons.	
Isotopes	Atoms of the same element with same number of protons and different numbers of neutrons.	
Relative Atomic Mass (A _s)	The weighted average of the masses of all of the isotopes of an element	
Calculating A	 Multiply each mass by the % abundance. Add them up. Divide by 100. 	

3 – History of the Atom		
Dalton's Model	Described atoms as tiny solid spheres.	
Plum Pudding Model	Described atoms as a ball of positive charge with negative electrons stuck in it.	
Rutherford's Experiment	Fired positive alpha particles at a thin sheet of gold.	
Rutherford's Result	Most alpha particles went straight through or slightly scattered. Very small number deflected back.	
Rutherford's Explanation	Nucleus is tiny and positively charged. Most of the atom is empty space . Cloud of negative electrons surround nucleus.	
Bohr's Nuclear Model	Discovered that electrons orbit the nucleus in fixed shells .	
Protons &	Rutherford discovered protons. Later, Chadwick discovered	
Neutrons	neutrons.	
4 – Elements, Compounds, Mixtures and Separation Processes		
4 – Elements, Co	mpounds, Mixtures and Separation Processes	
4 – Elements, Co	A substance made up of one type of atom.	
Element	A substance made up of one type of atom . A substance made up of two or more types of <u>atom</u>	
Element Compound	A substance made up of one type of atom. A substance made up of two or more types of atom chemically joined together. A substance made up of two or more substances mixed	
Element Compound Mixture	A substance made up of one type of atom. A substance made up of two or more types of atom chemically joined together. A substance made up of two or more substances mixed together but not chemically joined.	
Element Compound Mixture Filtration	A substance made up of one type of atom. A substance made up of two or more types of atom chemically joined together. A substance made up of two or more substances mixed together but not chemically joined. Separates an insoluble solid from a liquid using filter paper.	
Element Compound Mixture Filtration Evaporation	A substance made up of one type of atom. A substance made up of two or more types of atom chemically joined together. A substance made up of two or more substances mixed together but not chemically joined. Separates an insoluble solid from a liquid using filter paper. Heat solution to evaporate liquid until dry crystals are left. Heat solution until crystals form, leave to cool, filter out	

1 – Modern Pe	1 – Modern Periodic Table	
Periodic Table	118 elements in order of atomic number.	
Groups	Vertical columns. Contain elements with similar chemical properties.	
Group number	Tells you the numbe r of electrons in the outer shell .	
Periods	Horizontal rows .	
Period Number	Tells you the number of shells .	
Metals	Found on left side. Conductors of heat and electricity, strong, malleable and high melting and boiling points.	
Non-metals	Found on right side. Insulators of heat and electricity, dull, brittle, lower melting and boiling points.	
2 – Development of Periodic Table		
Early tables	Fewer elements (e.g. no noble gases). Arranged in order of atomic weight (no knowledge of atomic number yet).	
Newland's table	Not well accepted. Elements in same group often had different properties, some boxes had 2 elements.	
Mendeleev's table	Well accepted. Left gaps for undiscovered elements and switched places of some to ensure elements with similar properties in same group.	
Mendeleev's predictions	Used table to predict properties of undiscovered elements. Turned out to be correct .	

3 – Group 1 Alka	li Metals (lithium, sodium, potassium)
Properties	Soft, low density, shiny when cut but quickly go dull when
	they react with oxygen in air.
Reactions with	Vigorous reactions - produce an alkaline solution.
water	metal (s) + water (l) -> metal hydroxide (ag) + hydrogen (g)
Reactions with	Produce a white metal chloride salt.
chlorine	metal (<u>s) +</u> chlorine (g) -> metal chloride (s)
Reactions with	Forms dull metal oxide layer.
oxygen	metal (s) + oxygen (g) -> metal oxide (s)
Trends down the	Increasing reactivity and decreasing melting and boiling
group	points.
4 – Group 7 Halo	gens (fluorine, chlorine, bromine, iodine)
	Fluorine = pale yellow gas, chlorine = yellow-green gas,
Properties	bromine = red-brown liquid, iodine = grey solid with purple
	vapour.
Diatomic	Made of pairs of atoms -> F ₂ , Cl ₂ , Br ₂ , I ₂ .
Molecules	
Trends down the	Decreasing reactivity and increasing melting and boiling
group	points.
Reactions with	React with metals to form metal halide salts.
metals	A manus manetina balanca and disulant a large manetina balanca
Displacement Reactions	A more reactive halogen can displace a less reactive halogen from its salt.
5 – Group 0 Nobl	e Gases (helium, neon, argon, krypton)
Properties	Inert (very unreactive), colourless gases, non-flammable.
Electrons	Full outer shell of electrons -> very stable -> do not react.
Trends down the group	Increasing boiling point.

1 – Cell Structure	e and Specialised Cells	
Eukaryotic Cell	Complex cell with a nucleus.	
Prokaryotic Cell	Small simple cell with <u>no</u> nucleus.	
Prokaryotic DNA	Stored as single DNA loop or small rings (plasmids).	
Ribosomes	Where proteins are synthesised.	
Cell Wall	Made of cellulose -> strengthens plant and algal cells.	
Sperm cells	Fertilise egg cells. Carry male DNA. Tail for swimming. Many mitochondria. Enzymes in head. Half a set of <u>DNA</u> .	
Nerve cells	Carry electrical signals. Long and branched at the ends.	
Muscle cells	Specialised for contraction . Cells are long and contain many mitochondria .	
Root hair cells	Absorb water and minerals from the soil. Root hair projections provide a large surface area. No chloroplasts.	
Xylem Cells	Form tubes that transport water and minerals around plant - > dead cells -> no end walls.	
Phloem Cells	Form tubes that transport dissolved food around plants -> living cells -> small pores in end walls.	
2 - Microscopy		
Magnification	Higher magnification = larger image.	
Resolution	Higher resolution = clearer image.	
Equation	Magnification = Image size / Actual size	
Units	From mm to μm x 1000. From μm to mm ÷ 1000.	
Preparing an Onion Slide	Peel thin layer with tweezers -> place on slide -> add iodine stain -> lower cover slip gently to avoid bubbles.	
Using a Light Microscope	Place on stage -> use lowest power objective lens -> adjust with course focus then fine focus -> repeat with higher magnification if needed.	
Electron Microscope	Higher magnification and resolution than a light microscope.	

3 – Cell Cycle and	d Stem Cells	
Chromosomes	Molecules of DNA , 23 pairs found in nucleus , carry genes .	
Cell Cycle	Three stages -> growth & DNA replication, mitosis and cell division.	
Growth & DNA Replication	Cell grows -> number of subcellular structures increases -> DNA replicates -> forms X shaped chromosomes.	
Mitosis	Cell division. Chromosomes line up in centre -> pulled apart by fibres -> two nuclei formed -> cytoplasm and cell membrane divides. Creates two identical daughter cells.	
Differentiation	Process by which cells become specialised .	
Stem Cells	Undifferentiated cells -> can become different types of <u>cell</u> .	
Embryonic Stem Cells	Grown in lab -> made to specialise -> used to replace faulty cells -> treats disease e.g. diabetes and spinal damage.	
Adult Stem Cells	Cells transferred from bone marrow -> replaces faulty blood cells in patient.	
Plant Stem Cells	Found in meristems (tissues in the tips of roots and shoots) -> used to produce clones of rare species and crops with desired features (e.g. disease resistance).	
4 – Cell Transpor	t	
Diffusion	Net movement of particles -> from a higher to lower concentration -> down a concentration gradient.	
Osmosis	Net movement of water molecules -> across a partially permeable membrane -> from a higher to lower water concentration -> down a concentration gradient.	
Active Transport	Movement of particles -> from a lower to higher concentration -> against a concentration gradient -> requires energy.	
Factors that Increase Rate of Cell Transport	Steeper concentration gradient, larger surface area, shorter diffusion pathway.	

2.1 - Living Org	zanisms		
Living	Living things that are made of cells and carry out the seven life		
Organisms	processes.		
Seven Life	Movement, Reproduction, Sensitivity, Nutrition, Excretion,		
Processes	Respiration, Growth. (MRS NERG)		
Unicellular	Living organisms made from only one cell.		
Multicellular	Living organisms made from many cells.		
2.2 - Parts of t	he cell found in both plant and animal cells.		
Nucleus	Controls the cell's activities. Contains genetic information (DNA).		
Cell Membrane	Controls what enters and leaves the cell.		
Cytoplasm	Jelly-like fluid where chemical reactions occur.		
Mitochondria	Where respiration occurs which releases energy for the cell.		
2.3 - Parts of t	he cell found in only plant cells.		
Cell Wall	Supports and strengthens the cell.		
Chloroplasts	Where photosynthesis occurs which makes food for the plant. Contains a green chemical called chlorophyll which absorbs light .		
Vacuole	Contains cell sap.		
2.4 - Specialise	ed Cells		
Sperm Cell	Fertilise egg cells. Carry male DNA. Tail to help it swim. Many		
	mitochondria. Enzymes in head. Half a set of <u>DNA</u> .		
Egg Cell	Contains female DNA . Cytoplasm contains nutrients . Cell membrane only allows one sperm in. Half a set of DNA .		
Red Blood Cell			
	Carry oxygen. No nucleus. Large surface area.		
White Blood Cell	Fight infections caused by micro-organisms.		
Cilia Cell Tiny hairs to sweep mucus (containing bacteria) out of t			
Name 6 II	airways.		
Nerve Cell	Carry electrical signals . Long and branched at the ends.		
Root Hair Cell	Absorbs water and minerals from the soil. Root hair projections provide a large surface area . No chloroplasts .		
	Found in leaves. Contains many chloroplasts for photosynthesis.		

2.5 - Body Organisat	ion	
Cell	Basic building block of life.	
Tissue	Group of similar cells working together.	
Organ	Different tissues working together.	
Organ System	Different organs working together.	
Organism	Different organ systems working together.	
2.6 - Respiration		
Respiration	Chemical reaction that occurs in all living organisms.	
Kespiration	Releases energy for movement, growth and warmth.	
Aerobic Respiration	Requires oxygen.	
Aerobic Respiration	glucose + oxygen -> carbon dioxide + water (+ energy)	
	Does not require oxygen – happens in muscle cells	
Anaerobic	during exercise.	
Respiration	glucose -> lactic acid (+ energy)	
	Lactic acid causes muscle cramps.	
2.7 - Photosynthesis		
	Produces food (glucose) for plants. Occurs in chloroplasts.	
Photosynthesis	•	
	carbon dioxide + water> glucose + oxygen	
Chlorophyll	Green chemical which absorbs energy from sunlight	
	needed for photosynthesis .	
2.8 - Diffusion		
Concentration	Number of particles in a given volume.	
Diffusion	Movement of particles from an area of higher	
	concentration to an area of lower concentration.	
Factors increasing	Large surface area.	
the rate of diffusion	Short distance e.g. thin cell walls	
into / out of cells.	Steep concentration gradient <u>i.e.</u> large difference	
	between the higher and lower concentration.	

Key terms (Week 1&5)		
Birth rates	Number of births per 1000/ year	
Death rate	Number of deaths per 1000/ year	
Natural	Difference between birth & death rate (can be increase or decrease)	
Change		
Rural	Area characterised as a sparse population and open space with mainly green	
	areas	
Urban	Area characterised as a dense population with limited open space and many	
	buildings	
Urbanisation	An increase in the proportions of people living in towns and cities	
Migration	The movement of people from one place to another to live	
Push factor	A reasons why people leave a place e.g. a lack of access to healthcare	
Pull factor	Something attracting people to an area to live e.g. Better job opportunities	
Mega city	City with a population of over 10 million people. Tokyo is the biggest with 38	
	million people	
Squatter	Poorly constructed, illegal area of a city built by people due to a lack of houses.	
settlement	Often called shanty towns or slums. Limited services found in them.	
Informal	Jobs made by people themselves in cities due to a lack of formal employment	
sector	e.g. rag-picker. People in these jobs don't pay taxes	

Rural to urban migration (week 2)

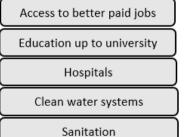
Poorly paid primary jobs

Limited education

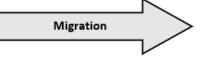
Lack of healthcare

Limited access to clean water

Little or no sanitation









3. Importance of Mumbai (week 3)



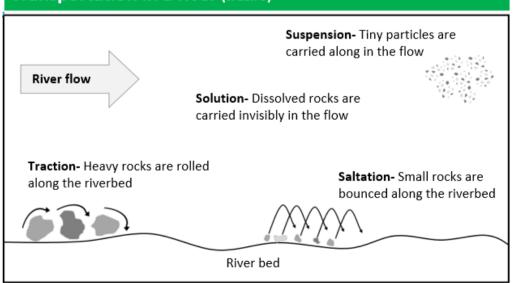
YEAR GROUP

9

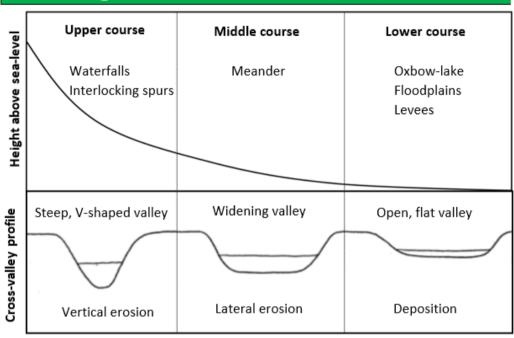
Mumbai challenges & solutions (week 4&6)		
Challenges	Solutions	
Improving housing for the 40% of residents in slums	Plans to flatten the slums, replace them with high-rise buildings	
Increasing access to clean water . Over 50% lack access to this	New high-rise buildings will have clean piped water	
Sanitation in the slums; up to 500 people share one public toilet	Build community toilet blocks in areas that aren't redeveloped	
Poor air quality from industrial practice and vehicles fumes	Urban Air Quality Management Initiative (UAQMI) set up	
Level of waste ; Mumbai produces 75000+ tonnes of waste daily	New housing & road development will allow waste collection	
Traffic congestion, over 3 million commute into the city daily	New technology to use traffic lights to maximise vehicle flow	
Crime , nearly one third of the population have been victims	New buildings will be more secure and police can access more easily	
Overcrowding, diseases spread easily, e.g. dysentery & typhoid.	Building high-rise apartments will allow more to live in same space	

Key terms	(week 7 & 13)
Erosion	The wearing away and removal of material by the moving force of the
	river. Can be vertical (straight down), lateral (to the sides), or both
Weathering	The break-up of rocks where they are found due to natural forces
	such as temperature and vegetation
Long profile	The gradient of a river, from its source to its mouth
Source	Start of the river, normally in mountainous areas
Mouth	The end of a river where it enters the sea or a lake
Cross-profile	The side to side cross-section of a river channel or valley
Discharge	The quantity of water that passes a given point on a stream or river-
	bank within a given period of time.
Flood	When river discharge exceeds river channel capacity and water spills
	out of the channel onto the surrounding areas
Hydrograph	A graph which shows the discharge of a river, related to rainfall, over
	a period of time
Hard	Building artificial structures using various materials such as rock or
engineering	concrete to reduce, disrupt or stop river processes.
Soft	Uses the natural environment surrounding a river, using schemes that
engineering	work with the river's natural processes.

Transportation in a river (week 9)



River changes from source to mouth (week 8)

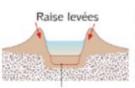


Hard Engineering (week 11)



Build Dams & reservoirs: Hold back flood water, even out river flow

Straighten: Water leaves area quickly



Embankments: Make the channel bigger, less flooding

Soft engineering (week 12)



Flood warning: Give people time to prepare in advance of floods

Plant tree: Less water reaches the river as trees soak it up



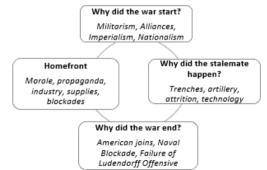
Zonation: Keep houses & business away from rivers, use these for crops & parks

1 Militarism		
Key Term	Definition	
Arms Race	Competition to make the largest military	
Dreadnought	Largest battleship created (1906)	
Navy	Military used at sea	
Militarism	Desire to have the strongest military	

Nation	Key Facts 2
Britain	Largest Navy. Largest empire. Experienced army
Germany	Strong military culture. Growing navy. Well- prepared
France	Outdated army. Aging military leaders. Large army
Russia	Largest army by far. Outdated equipment and tactics. Politically unstable
America	Modern army. Unaffected by the war in Europe. Isolationist until 1917

4 Crisis	Consequence
1905 First Moroccan Crisis	Germany embarrassed at international conference, alliances strengthen
1908 Austria Hungary annex Bosnia	Pan-Slavism increases, Russia back down from war, tension increases
1911 Second Moroccan Crisis	Germany back down and lose colonies, tension at its highest point
1912-1913 Balkan Wars	Austria-Hungary defeated, Ottomans pushed from Europe, nationalism increases

5 Imperialism	
Key Term	Definition
Crisis	A time of difficulty or danger
Place in the Sun	Germany's desire to have an Empire
Annex	To take someone else's territory
Imperialism	The desire to increase the size of an Empire
•	



3	Alliances	Date	Alliance	
Key Term	Definition	1879	Dual Alliance (Germany and	
Triple Entente	Britain, France, Russia		Austria-Hungary)	
Trials Allians	Triple Alliance Germany, Austria-Hungary,		Triple Alliance	
Triple Alliance			Franco-Russian Alliance	
Encircled	Surrounded by other nations		(France and Russia)	
Alliana	, 	1907	Triple Entente	
Alliance Agreement between nations				

6 Nationalism		
Key Term	Definition	
Weltpolitik	Germany's desire to be a world power	
Pan-Slavism	The movement towards Slavic unity	
Isolationism	Desire to take no part in international affairs	
Nationalism	Zealous love of one's country over other countries	

⁷ Nation	Culture
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

1				
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 German • 400,000 French	France defends Verdun Britain supports defenders
Somme July-Nov 1916	Britain France Germany	Heavy British losses in early stages First use of tank	420,000 British440,000 German200,000 French	Minimal territorial gain Germany eventually fall back to Hindenberg line
Passchendaele July-Nov 1917	Britain France Germany	Quagmire conditions Constant heavy rain	 240-400,000 British and French 200-400,000 German 	British victory Very heavy losses Germany badly weakened

3 End of the War				
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 Revolution February 1917	Russia suffers heavy casualties on Eastern Front Russian population starving and angry Russian Tsar deeply unpopular	Russia leaves the war German troops redeployed to Western Front		
America joins the war 1917	Lusitania sunk May 1915 Zimmerman Telegram 1917 Submarine warfare damages US ships	USA commits 2 million troops to war 90,000 tonnes of meat USA finances allies		
Ludendorff Offensive March 1918	Germany has more troops on Western Front America is joining war, German chance of victory is shrinking	Initial German victory Unsustainable German advance German troops cut off and captured		
100 Days Offensive August 1918	Germans are weakened and on brink of defeat Unified command under General Foch American troops join allies	Significant allied territory gains German army in full 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		

Definition ²
When neither army could make a decisive move
Defensive ditch or fortification soldiers fought and lived in
Long-range explosive weapon
Prolonged artillery attack on defences
PTSD for soldiers following bombardments
Grinding down the enemy
Foot condition soldiers contracted standing in muddy trenches
Heavily armoured fighting vehicle
Metals shards that came from explosives, wounding soldiers
Area of land between two armies' trenches
Move around the enemy to attack from a better position
Cutting a location off from all supplies and trade
German submarine
Monarch gives up their title
Elite German shock-troops
Soldiers refusing to follow commanders' orders
Agreed ceasefire
The civilian world during war
The overall mood of a group of people

Trinity	God is the Father, Holy Spirit & Son	Salvation Saving the soul from sin	
Incarnate	God is Jesus/Human in flesh	Resurrection	Jesus raised from dead
Ascension	Jesus rose up to heaven 40 days after	Omnipotence	All-powerful
4.0.0	his resurrection & teaching his final	Omniscience	All-knowing
1 & 2	lessons.	Omnibenevolence	All-loving
Just	God is fair	Impersonal	God is beyond human
Crucifixion	The killing of Jesus/suffering on cross		understanding
Stewardship	Humans are carers of the earth	Grace	God's unconditional love

Influence – How does something affect you, inspire you, does it compel certain actions?

Similar – Are there any beliefs, teachings & quotes that are similar?

3	Nature of God	The Trinity	The Bible teaches,	Atheists argue,
•	Christians see God as: Just, graceful, omnipotent,	Christians see God in 3 ways: The Father in heaven,	'I am always with you' 'You'll receive power	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	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; Day 1: God made light Day 2: heavens & earth Day 3: land & sea Day 4: Sun, Moon/Stars Day 5: Fish & birds Day 6: Animals/humans Day 7- God rested We are stewards of the earth 	If an all-loving God exists, how can He allow humans to suffer in the world? Moral (human) evil / natural (beyond this) Floods, famine, diseases, war	 'God made the heavens & earth' The Prodigal Son: A father forgives & welcomes his son back after his losses The Story of Job: life is a test. Job loses his wealth & family but God returns it testing his faith through suffering. 	 God should not make people suffer; If God created the world why is it not perfect? Why are their floods, 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
:	Everyone sins no one is perfect (Adam/Eve) Sin breaks God's Law causes separation Jesus' death atones (makes up) for our sins.		'Christ died for our sins'		right intention 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
Jesus' risen body was different & glowed	'The body raised is imperishable'	Shows God's power

9	Salvation		The Bible teaches,		Influence
l .	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

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

11	Afterlife & Judgement	The Bible teaches,			Influence
	fterlife, God will judge you fairly Heaven, Hell or Purgatory (in between)	•	The Parable of Sheep & Goat (evil)	:	Ask for forgiveness Give charity & share
	The point of life is to aim for heaven	•	'Do not judge for you will be judged'	•	Not steal or lie

2	Tip : Always	Where is it from?	What does it mean?	Why is it important?
	unpack quotes	The Bible / Jesus	This means / Some Christians believe	This signifies / highlights,
		teaches,	This influences,	This supports / challenges,

9.1 What do you do during the summer?				
En verano / En invierno ↓	In summer / In winter ↓			
Chateo en la red	I chat online			
Cocino para mi familia	I cook for my family			
Descargo canciones	I download songs			
Escucho canciones	I listen to songs			
Hago natación / esquí / windsurf	I go swimming / skiing / windsurfing			
Monto a caballo / en bici	I horse ride / I ride my bike			
Nado en la piscina	I swim in the pool			
Nado en el mar	I swim in the sea			
Salgo con mis amigos	I go out with my friends			
Toco la guitarra	I play the guitar			
Voy de paseo	I go for a walk			

9.2 Where do you go on holiday and how do you travel?				
Voy de vacaciones a ↓	I go in holiday to ↓			
España	Spain			
Francia	France			
Gales	Wales			
Escocia	Scotland			
Italia	Italy			
Pakistán	Pakistan			
Cuba	Cuba			
Alemania	Germany			
Voy en ↓	I go by ↓			
avión	plane			
barco	boat			
coche	car			
tren	train			
autocar	coach			

9.3 Where do you stay on holiday?				
Me alojo / me quedo en ↓	I stay in↓			
un hotel de cinco estrellas	a five star hotel			
un parador	a luxury state-run hotel			
un albergue juvenil	a youth hostel			
un camping	a campsite			
un apartamiento	an apartment			
una pensión	a guest house			
una tienda	a tent			

9. 4 What do you do on holiday?		
Voy a la playa	I go to the beach	
Visito un castillo	I visit a castle	
Tomo el sol	I sunbathe	
Juego al voleibol	I play volleyball	
Me baño en el mar	I bathe in the sea	
Voy al parque	I go to the park	
Como en los restaurantes	I eat in restaurants	
Me quedo en la cama	I stay in bed	
Leo libros	I read books	
Esquío	l ski	
Hago senderismo	I go hiking	
Cuando ↓	When ↓	
hace sol	it is sunny	
hace calor	it is hot	
hace viento	it is windy	
Llueve	it is raining	
hay niebla	it is foggy	
hace mal tiempo	it is bad weather	
hace buen tiempo	it is good weather	
nieva	it is snowing	

9.5 Where did you go on holiday?		
El año pasado / El verano pasado /	Last year / Last summer / (Three)	
Hace (tres) años ↓	years ago ↓	
Fui de vacaciones a	I went on holiday to	
Fui con ↓	I went with ↓	
mi familia	my family	
mi instituto	my school	
mi mejor amigo	my best friend	
mis abuelos	my grandparents	
mis primos y mis tíos	my cousins and my aunt and uncle	
Me alojé en / Me quedé en	I stayed in	
Lo mejor / peor fue cuando	The best / worst thing was when	
Aprendí a <u>hacer</u> vela	I learned to sail	
Comí helados	I ate ice-cream	
Compré recuerdos	I bought souvenirs	
Descansé	I relaxed	
Fui a la playa	I went to the beach	
Fui al acuario	I went to the aquarium	
Fui al parque acuático	I went to the water park	
Hice turismo	I went sightseeing	
Saqué fotos	I took photos	
Perdí mi pasaporte / móvil	I lost my passport / mobile	
Tomé el sol	I sunbathed	
Vi un partido	I saw a match	
Visité	I visited	
Hizo sol / calor / frío / viento	It was sunny / hot / cold / windy	
Hizo buen / mal tiempo	It was good / bad weather	
Hubo niebla / tormenta	It was foggy / stormy	
Llovió	It rained	
Nevó	It snowed	

9.6 Accor	nmodation	
Estaba cerca de la playa	It was close to the beach	
Estaba en el centro	It was in the centre	
Estaba en las afueras	It was on the outskirts	
Era ↓	It was ↓	
acogedor(a)	welcoming	
antiguo/a	old	
barato/a	cheap	
caro/a	expensive	
lujoso/a	luxurious	
moderno/a	modern	
pequeño/a	small	
ruidoso/a	noisy	
tranquilo/a	quiet	
grande	big	
Tenía / Había	It had / There was / were	
No tenía ni ni	It had neithernor	
No había ni ni	There was neithernor	
Tampoco tenía	Neither did it have	
(un) aparcamiento	a car park	
(un) bar	a bar	
(un) gimnasio	a gym	
(un) restaurante	a restaurant	
(una) lavandería	a launderette	
(una) piscina (cubierta)	a (indoor) swimming pool	
(una) playa privada	a private beach	
muchos espacios verdes	lots of green spaces	

	9.7 Verb tenses & time phro	ases
Voy	Present tense	I go
Viajo	Present tense	I travel
Me alojo / Me quedo	Present tense	I stay
Es	Present tense	It is
Son	Present tense	They are
Hay	Present tense	There is / there are
Me gusta	Present tense	l like
Prefiero	Present tense	I prefer
Hice	Preterite tense	I did
Celebré	Preterite tense	I celebrated
Fui	Preterite tense	I went
Fuimos	Pretertite tense	We went
Hice	Preterite tense	I did
Monté	Preterite tense	I rode
Vi	Preterite tense	I watched
Salí	Preterite tense	I went out
Nadé	Preterite tense	l swam
Leí	Preterite tense	I read
Recibí	Preterite tense	I received
Saqué	Preterite tense	I took
Mandé	Preterite tense	I sent
Voy a <u>ver</u>	Immediate future	I am going to watch
Voy a <u>ir</u>	Immediate future	I am going to go
Vamos a comprar	Immediate future	We are going to buy
Voy a <u>comer</u>	Immediate future	I am going to eat
Voy a <u>hacer</u>	Immediate future	I am going to do / make
Vamos a <u>beber</u>	Immediate future	We are going to drink
Me gustaría <u>ir</u>	Conditional	I would like to go
Me gustaría <u>montar</u>	Conditional	I would like to ride
Me gustaría <u>jugar</u>	Conditional	I would like to play

9.8 How was the holiday?		
Me gustaron las vacaciones	I liked the holidays	
Me encantaron mis vacaciones	I loved my holidays	
Lo pasé bomba / fenomenal	I had a great time	
Lo pasé bien / mal / fatal	I had a good / bad / awful time	
Fue ↓	It was ↓	
inolvidable / increíble	unforgettable / incredible	
impresionante / flipante	impressive / awesome	
horroroso	awful	
un desastre	a disaster	

9.9 Ideal holidays		
Si tuviera mucho dinero ↓	If I had a lot of money ↓	
Si tuviera la oportunidad ↓	If I had the opportunity ↓	
Si pudiera ↓	If I could ↓	
Si ganara la lotería ↓	If I would the lottery ↓	
iría a	I would go to	
viajaría en	I would travel by	
me alojaría en	I would stay in	
sería	it would be	
Sacaría fotos	I would take photos	
Haría piragüismo	I would do canoeing	
Haría sol / calor	It would be sunny / hot	

9.10 At the accommodat	ion and making a booking	
¿Cuánto cuesta una habitación?	How much is a room?	
Quisiera <u>reservar</u> una habitación	I would like to reserve a single /	
individual / doble	double room	
con / sin balcón	with / without a balcony	
con bañera / ducha	with a bathtub / shower	
con cama de matrimonio	a double bed	
con desayuno incluido	with breakfast included	
con media pensión	with half board	
con pensión completa	with full board	
con vistas al mar	with a sea view	
¿Para cuántas noches?	For how many nights?	
Para (siete) noches	For (seven) nights	
¿A qué hora se sirve el desayuno?	At what time is breakfast served?	
¿Cuándo está abierto/a (el cine / la	When is the (cinema / café) open?	
cafetería)?		
¿Se admiten (perros)?	Do you admit (dogs)?	
¿Hay wifi gratis?	Is there free wifi?	
¿Hay aire acondicionado?	Is there air conditioning?	

9.13 Essay writing 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	ginar As you can imagine	
Suelo (+ infinitivo)	I usually (+ infinitive)	
Siempre he pensado que	I have always thought that	
Tengo que <u>admitir</u> que I have to admit that		

9. 12 Future holidays		
El año que viene ↓ Next year ↓		
En el futuro ↓	In the future ↓	
iré a	I will go to	
viajaré en	I will travel by	
me alojaré / me quedaré en	I will stay in	
Será	It will be	
Sacaré fotos	I will take photos	
Tomaré el sol	I will sunbathe	
Haré piragüismo	I will do canoeing	
Nadaré en el mar	I will swim in the sea	
Comeré platos típicos	I will eat typical dishes	

9.11 Making a complaint		
Quiero <u>hablar</u> con el director	I want to speak with the manager	
Quiero <u>cambiar</u> de habitación	I want to change rooms	
El ascensor no funciona	The lift isn't working	
La ducha no funciona	The shower isn't working	
La luz no funciona	The light isn't working	
La habitación está sucia	The room is dirty	
Hay ratas en la habitación	There are rats in the bedroom	
No hay	There is no	
Necesito	I need	
papel higiénico	toilet paper	
jabón	soap	
champú	shampoo	
toallas	towels	
¡Socorro!	Help!	
Lo siento / Perdone	I'm sorry	

9.1 Greetings			
Urdu	Roman Urdu (pronunciation)	English	
السلام عليكم	Ass slaa mu a lay kum	Hello (peace be upon you)	
وعليكم السلام	Wa a lay ku muss slaam	(reply – peace be upon you too)	
تام	naam	name	
JE.	umar	age	
آپ	aap	you	
آپکاکیاحال ہے؟	aap kaa kyaa haal hai?	How are you?	
خصيک	Teek	good/well	
میک نہیں	Teek nehi	not good/well	
خداحافظ	khudaa hafiz	Bye! (May God protect you)	
خوش آمدید	khush aamdeed	Welcome!	
صبح بخير	subah bakhair	Good Morning!	
شب بخير	shab bakhair	Good night!	
ڪرب	shukriya	Thank you	

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).

Year 9 Urdu: Cycle 1

	9.2 Nu	mbers (continu	ied)
ایک	1	ayk	one/1
9)	۲	doe	two/2
تغين	٣	teen	three/3
	٨	chaar	four/4
چار پانچ	۵	paanch	five/5
æ,	۲	chhay	six/6
سات	4	saat	seven/7
南下	۸	aaTh	eight/8
نو	9	nau	nine/9
وی	1.	dass	ten/10
حمياره	11	gyaarah	eleven/11
ياره	11	baarah	twelve/12
تيره	11	tayrah	thirteen/13
1992	10	chaudah	fourteen/14
يندره	10	pandrah	fifteen/15
سوله	14	solah	sixteen/16
70	14	satrah	seventeen/17
انخاره	IA	aThaarah	eighteen/18
انیس	19	unneess	nineteen/19
بيں	۲٠	beess	twenty/20
آپ کی عمر کیا ہے؟	aap kee umar kyaa hai?		What is your age?
میری عمر_ سال ہے۔	mayree umar saal hai.		my age is (years).

9.3 Likes & Dislikes — pasand & naapasand					
مجھ_ پند ہے۔	mujhay pasand hai	l like			
مجھے ناپند ہے۔	mujhay naapasand hai	l dislike			
مجھ_ اتناپیند نہیں ہے۔	mujhay itnaa pasand nehi	I don't like that much			
مجھ_ بہت پندے۔	mujhay bahut pasand hai	l like a lot			
مجھے ہے نفرت ہے۔	mujhay _ say naffrat hai	I hate			
میں برداشت نہیں کر سکتا/سکتی۔	mai barrdaasht nehi karsaktaa/ee	I can't stand			
مجھ دلچپ لگناہے۔	mujhay dillchasp lagtaa hai.	I find interesting.			
مجھ_ کاشوق ہے۔	mujhay kaa shawq hai.	I am interested in			
10 - 2		is.			

Pronouns

Urdu does not have different pronouns

(he,she,they etc.) for masculine/feminine or singular/plural. All you need to look at is if someone/thing is here or there. If it is here, we use yay. If it is there, we use wo. So, the word wo is used for that and also, he, she, they and it. Similarly, yay is used for this and also for he, she, they and it.

9.4/	5 Birthd	ays, Months and	Higher Numbers	
آپ کی سالگرہ کب ہے؟		aap kee saal- ghira kab hai?	When is your birthday?	
ساتگره	میری	mayree saal- ghira	My birthday	
-40	r.*	may hai	is in	
وي۔	·	ko hai	is on	
	کم -	yakam	first of (month)	
اکیس	rı	ikkeess	twenty-one/21	
بائيس	rr	baaeess	twenty-two/22	
تنكي	rr	taeess	twenty-three/23	
۲۳ چين		chaubeess	twenty-four/24	
پچيل	ro	pacheess	twenty-five/25	
حجبيل	r	chhabbeess	twenty-six/26	
ستأكيس	12	staaeess	twenty-seven/27	
اٹھائیس	۲۸	aThaaeess	twenty-eight/28	
انیس	19	unteess	twenty-nine/29	
لين	r.	teess	thirty/30	
اكتيس	۳۱	ikatteess	thirty-one/31	
پينيس	ro	painteess	thirty-five/35	
عاليس	۴٠	chaaleess	forty/40	
پينتاليس	۳۵	paintaaleess	forty-five/45	
۵۰ پچاس		pachaass	fifty/50	

9.	6 Feeling unwell	
آپ کو کیامسکلہ ہے؟	Aap ko kya mas'alah hai?	What is the problem?
مجھے درد سرے۔	Mujhay dard- e-sarr hai	I have a headache
مجھے بخارہے۔	Mujhay bukhaar hai	I have a fever
میراگلاخراب ہے۔	Mayra galaa khraab hai.	I have a sore throat
مجھے زکام ہے۔	Mujhay zukaam hai.	I have a cold
دانت میں در د	Daant may dard	Toothache
کان میں در د	Kaan may dard	Earache
پیٹ میں در د	payT may dard	Stomach ache
مجھے تھکن ہے	Mujhay thakan hai	I feel really tired

Tenses					
میں نے کھیلا	Mai nay khaylaa	l played			
میں کھیاناہوں۔ میں کھیلتی ہوں	Mai khayltaa hoo / Mai khayltee hoo	l play			
میں کھیلوں گا میں کھیلوں گ	Mai khayloongaa Mai khayloongee	l will play			
مجھے کھیلناچاہیے تھا	mujhay khaylna chahiyay thaa	I should have played			
میں کھیلاتھا۔ میں کھیلتی تھی	Mai khaylta tha / khayltee tee	I used to play			

/	sarr	head	
آنکھ/ آنکھیں	aankh/ay	eye/s	
کان	kaan	ear/s	
گر دان	garrdan	neck	
بازو	baazoo	arm/s	
پيٺ	payT	stomach	
يني	peeT	back	
ٹانگ/ٹائلیر	Taang/ay	leg/s	
گھٹنہ / گھٹنے	ghuTna/ay	knee/s	
بير	pair	foot/feet	
مُنه	moo	mouth	
باتھ	haath	hand/s	
ناک	naak	nose	
کندہ /کندے	kanda/ay	shoulder/s	
دانت	daant	teeth	
انگلی / انگلیاں	ungli/yaa	finger/s	
پیرول کی انگلیاں	pairo ki ungliyaa	toes	
ہونٹ	haunt	lips	
انگوځما	angooTa	big toe / thumb	

9.7 Parts of the body

9.8 Going to the Doctor's						
کتنی دیرہے آپ بیار ہیں؟	kitnee dayr say aap beemaar hai?	How long have you been ill?				
کل ہے	kal say	since yesterday				
دودن سے	do din say	for two days				
آپ کو آرام کرنایڑے گا۔	aap ko aaraam karnaa paRay ghaa.	You must rest.				
آپ کوزیادہ پانی پیناپڑے گا۔	aap ko zyaada paani peena paRay ghaa.	You must drink more water.				

]				
	صحت مندرہنے کے لیے میں۔۔۔	sihhat-mand rehnay kay liyay	To stay healthy I	
	تھوڑا کھا تا / کھاتی ہوں_	mai thoRa khaata/khaati hoo	eat less.	
۔۔۔روزانہ دوڑ تا / دوڑتی ہوں۔		mai rozaana daRta/dauRti hoo	run everyday.	
	جلدی سو تا / سوتی ہوں_	mai jalldi sota/soti hoo	go to sleep early.	
	۔۔۔ پھل سبزی کھا تا / کھاتی ہوں۔	phal sabzi khaata/khaati hoo	eat fruits and vegetables	

9.10 Exercise					
ورزش کرنا	warrzish karrna	to exercise			
کھیلوں کامر کز	khaylo kaa marrkaz sports centre				
وزن اٹھانا	wazn uTaana	to lift weights			
سائنكل چلانا	cycle chlaana	to cycle			
عمومأ	umooman	normally			

Notes $\underline{\mathbf{n}}$ – an underlined $\underline{\mathbf{n}}$ is pronounced with a very soft n sound from the nose. It sounds like the letter n in the word $u\underline{n}cle$ or long.

CaPiTal LeTtErS — any <u>Roman Urdu</u> 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*.

Masculine and Feminine

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DAA CYCLE 1 KNOWLEDGE ORGANISER SUBJECT URDU				TOPIC(S)	IIGH-FREQUENCY	WORDS		YEAR 9	
میں	تم	آپ	ہم	60	~	ہیں	4	پېند	<u>\$.</u>
mai	tum	аар	ham	wo	yay	hai <u>n</u>	hai	pasand	mujhay
I	you (informal)	you (formal)	we	that/he/she/ it/they	this	are	is	like	me
الحچمی	اچھا	اس کی	اس کا	تجى	کیونکہ	نہیں	ہوں	میری	ميرا
achee	achaa	uss kee	uss kaa	bhee	kyoonkay	nehi	hoo <u>n</u>	mayree	mayra
good (feminine)	good (masculine)	his/her (feminine)	his/her (masculine)	also, as well	because	no/not/don't	(am) سی used with	my (feminine)	my (masculine)
بجهل	اگلے	هر روز	عام طور پر	مجهجي	ليكن	خوبصورت	بڑا/بڑی	بری	11.
pichhlay	aglay	har roz	aam taur par	kabhi	laykin	khoobsoorat	baRee/baRaa	buree	buraa
previous/ last	next	daily	normally	sometimes	but	beautiful	big (feminine/ masculine)	bad (feminine)	bad (masculine)
تاريخ	انگریزی	حساب	سكول	<u> </u>	آگے	میں	تين	9)	ایک
taareekh	angrayzee	hisaab	school	peechay	aagay	may	teen	do	ayk
History	English	Maths	school	behind	in front	in	three	two	one

ART: Year 9 Basic Skills

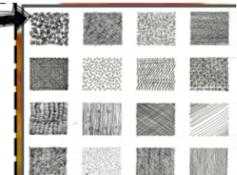


Section 1 Making objects look 3D

To prevent your drawings from looking flat, you should use a range of tones and marks. Pressing harder and lighter and layering with your pencil creates different tones. Use the direction of your pencil to help enhance the 2D surface, and you can also include shadows which will also help objects appear 3D.

Section 2 Markmaking

To make your drawings look more realistic, you should try to use different marks to show textures and surfaces. You can do this by changing the direction, pressure or length of your marks.



Key Vocabulary: Section 4

Scale (noun) SIZE. The size or level of something, especially when this is large.

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.

Ellipse (noun) a regular oval shape.

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.

Perspective (noun) representing 3D objects on a 2D surface so as to give the right impression of their height, width, depth, and position in relation to each other.

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. "skin texture and tone"

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

Still Life (noun) a painting or drawing of an arrangement of objects, typically including fruit, flowers and

Painting Techniques Section 3

Sfumato the technique of allowing tones and colours to shade gradually into one anoth-

er, producing a softened look.



Pointillism the practice of applying small dots of colour to a surface so that from a dis-

tance they visually blend together



Scgraffito a form of decoration made by scratching through a surface to reveal a lower layer

of a contrasting colour





Texture Background adding papers and other materials to the surface of an artwork, this creates texture when you paint over it.



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.

- ◆ Research artists, find imagery and annotate your thoughts using content, form, process, mood method.
- ◆ 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 capture photographs of. Think creatively using hands on/physical photography e.g. Hand drawn textures.
- ◆ Photographing a variety of subjects that link to the theme. This could include a range of portrait, building, landscape, object photography outside the classroom.
- ◆ Photographs of your chosen subject/theme but in a variety of angles, styles, edits.
- ◆ 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 2 The Formal Elements

Black & White— Images that have zero colour. It consists of shades of grey tone.

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.



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, 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.



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.

SUBJECT

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.

Section 3 Key Vocabulary

Ambient light/Natural light Is the light that is already present in the scene you are shooting.

Camera Angle Is the specific location at which the camera is located so it can take the shot.

Contrast (noun) Is the difference between the light and dark areas within your images. High contrast means the blacks are darker and whites are brighter, vice versa.

Depth of Field (noun) is the distance between the closest and farthest subjects in a scene that look noticeably sharp in an image.

Exposure (noun) Is the amount of light entering the camera's sensor. Too much light and the image is overexposed and not enough light and it's underexposed.

Focal Point (noun) Is the main part of the image or a point of interest within the image.

Midtone (noun) Or middle tone, describes the middle tones between two colours. For example, grey is the midtone of black and white.

Saturation (noun) Can provide a colour boost to your image by allowing you to change selective colours within the image. Monochrome images are 100% desaturated as there is no colour.

Useful Websites

https://www.pinterest.co.uk/seanr1132/formal-element-photography/

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

http://ushphotographygcse.weebly.com/formal-elements.html

Section 4

Threshold Concept #5



Cameras 'see' the world differently to the way we see the world with our eyes We tend to see only the subject depicted rather than the photograph itself. All photographs are, to some extent, abstractions. All photographic images have been shaped by the technology the photographer chooses and by a process of selection, editing and manipulation. Each and every photographic image is therefore made or constructed, rather than being a window onto the world.

The ability to:

understand photographic vision and the ways in which the camera transforms the subject, creating an image which appears to be real but is actually an abstraction.



Challenging assumptions



Tolerating uncertainty



Reflecting critically

"I photograph to find out what something will look like photographed."

- Garry Winogrand

"Every photograph is a fiction with pretensions to truth ... photography always lies; it lies instinctively, lies because its nature does not allow it to do anything else."

Joan Fontcuberta

Section 5 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.

Clock project – Design, model and make a prototype clock for a client.

Section 1 Art Deco

Art Deco is a popular design style of the 1920s and '30s characterized especially by sleek geometric or stylized forms and by the use of man-made materials.

Section 2 Walter Dorwin Teague

Walter Dorwin Teague's radios from the mid-1930s are among the most iconic early radio designs. Their streamlined, curving, silhouettes epitomize the Art

Moderne, or Art Deco, style that began about 1925. The striking blue mirrored glass that clads this radio was a clever use of a pre-existing material to add to the radio's novelty and sense of newness.

This radio resembles an automobile grill and dashboard. his radio would have brought the machine aesthetic, first seen in factories and public spaces, into a domestic setting.



Section 3 William Van Alen

The Chrysler Building is considered a leading example of Deco. is constructed of a steel frame in-filled with masonry, with areas of decorative metal cladding. The structure contains 3,862 exterior windows. Approximately fifty metal ornaments protrude at the building's corners on five floors reminiscent of cathedrals. The 31st-floor contains gargoyles replicas of the 1929 Chrysler caps, the 61st-floor eagles, a nod to America's bird.

















Identity (noun) Who a person is, or the qualities of a person or group that make them different from others.

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.

Coping saw (noun) is a saw with a very narrow blade stretched across a D-shaped frame, used for cutting curves in

Tenon saw (noun) is a small saw with a strong brass or steel back for precise work.

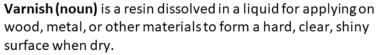
Dovetail saw (noun) is a smaller tenon saw with a small blade and fine teeth, used mainly for making joints.

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.





1.4.1 Food related causes of ill health

Types of contamination

Physical

Such as alass, fingernails, packaging and hair



Alleraenic

Such as peanuts, tree nuts, eggs and shellfish

SUBJECT

Such as pesticides and cleaning chemicals

Chemical

Microbiological

Such as bacterial, moulds, viruses and parasites

Chemicals

Remnants of cleaning chemicals

- Pesticides Insecticides
 - Paint (wall surfaces)

Moulds

Tiny funai which grow from spores found in the

- Settle on food products and multiply
- When visible, food is described as 'mouldy' Causes food spoilage

Pesticides and Herbicides

Some of the chemicals used in farming may remain on or in the food we eat. These may cause us harm.



Farmers spray pesticides on crops to kill the insects that may reduce crop yield. They also spray herbicides to kill weeds that may compete with the crops.

Some of these chemicals may remain on the surface of, for example, fruit. Others may be absorbed by the plant and therefore be present in the crop.

Signs of Food Spoilage

Odour - break down of proteins (rotten egg smell)



Sliminess - tissue breakdown

Discolouration - green/blue moulds on foods like bread, fruits and vegetables.



Sourness - production of acid, sour milk

Gas Formation -swollen packaging

Physical

Physical Contaminants Include:

- Hair
- Finger nails Broken utensils
- Pests



Don't mind me!



Bacteria

Bacteria are microscopic organ isms which are commonly referred to as 'GERMS'. They are found everywhere, including on and in people, on food, in water, soil and air. Some are good for us, and some are bad!

A small number of bacteria are known as SPOILAGE BACTERIA. They cause food to spoil or become unfit to eat! Food will smell or be slimy!



Pathogens



As well as bacteria that cause food spoilage, there are bacteria that have no effect on food and therefore cannot be detected easily.

These are known as PATHOGENS.

Salmonella



Raw meat, poultry Symptoms:

and unwashed vegetables

Caused by: Large numbers







Can take 48hrs

Fever

Vomiting

Diarrhoea

Can be fatal!

for symptoms to show:

Abdominal pain

2nd most common form of food poisoning!

Clostridium Perfringens

Found in:

Animal poo, soil, manure, sewage, raw meat, and poultry

- Nausea
- Abdominal pain 3
- Diarrhoea Can be fatal!

Symptoms can last 3 weeks!

show:

Can take 8-18hrs

for symptoms to

Symptoms:



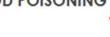
Produces spores which may not be killed by cooking!

MICROBIOLOGICAL PATHOGENS



SUBJECT

FOOD POISONING



INFECTIVE POISONING

Result of eating contaminated food with bacteria itself: Examples: Salmonella, Listeria

E.coli



The gut of animals and for symptoms humans.

E Coli 0157 found in raw and undercooked A meats and raw vegetables.

- Sever stomach cramps
- Diarrhoea Vomitina
- Can be fatal!

Illness caused by small numbers.

TOXIC POISONING

Some bacteria produce toxins, which cannot be destroyed with cooking. Examples: Staphylococcus Aureus, Clostridium Perfringens

Symptoms: Can take 5 days

to show:



Can survive refrigeration and freezina!





Pregnant women Elderly

Listeria

Found in:

salad

Soil, vegetation,

soft cheese and

meat, poultry,

vegetables.

Symptoms:

Can last 3

weeks!

Very Young











Campylobacter Symptoms:

Found in: Can last for 10 days Raw meat and poultry

Caused by: Small numbers



- Fever Headache
 - Abdominal pain
 - Diarrhoea

Most common form of food A poisoning!

Bacillus Cereus

Found in:

Soil and dust as well as rice dishes.

Symptoms:

Usually last less than 24hrs:

- After 1-5hrs
- Vomitina After 8-18hrs
- Diarrhoea and Abdominal pain



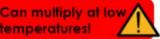


Illness can be caused by a small number of bacteria.

Forms spores that resistant to heat!





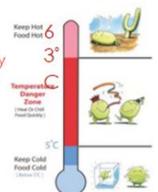


Conditions for Growth of bacteria

Temperature:

The best temperature for bacteria to multiply is 37°C (body temperature). Bacteria can also multiply quickly between 20°C and 50°C.

To prevent bacteria multiplying, food should be kept out of the danger zone (5°C-63°C).



Food:

Bacteria need food to grow, just like us.

They also prefer a pH of around 6.5-7, not too acidic or alkaline.



High Risk Foods

These foods support the multiplication of harmful bacteria.

These foods are usually high in protein and moist.

They must be protected from contamination and require refrigeration storage to prevent bacteria multiplyina.

Time:

Bacteria can divide into two every ten minutes by a process called binary fission.

For example, in 2 hours 1,000 bacteria can become millions, more than enough to cause food poisoning.

Therefore, food should not be left in the danger zone, especially between 20°C and 50°C.

Moisture:

Bacteria prefer foods that contain a lot of moisture, such as raw or cooked meat, poultry and dairy foods.

Dried foods, such as milk powder and cereal, do not provide the moisture necessary for bacteria to grow.





Indirect Contact or Cross-Contamination

Contamination is the presence or introduction of a hazard.

The transfer of bacteria from contaminated food (usually raw) to ready to eat foods using objects (vehicles) such as:

- Cutlery
- Hands
- Cloths
- Work surfaces
- Chopping boards

Physical Contamination

These include foreign bodies which may be brought into the food premises with the raw materials or introduced during storage, preparation, service or display.

Examples:

Cigarettes Glass Money Metal Packaaina Screws Cleaning materials Nails

Pests

Jewellery

Food Safety Act and the Environmental health officer

(EHO)

Under the act, EHOs can:

- Can close dirty premises
- Can impose fines of £20,000 or prison
- Can take legal action

All premises must be registered with the local authority and can be inspected at any time!

The rating is assessed by looking at compliance in three greas:

- Food hygiene and safety procedures how hygienically food is handled?
- The condition of the structure of the premises.
- How food safety is managed and documented, including food hygiene training and awareness?



- 2 Improvement necessary

- 5 Very good





If a business prepares or serves food, it must be registered using either the food business registration service on GOV.UK or via the local authority website.



0 - Urgent improvement necessary 1 - Major improvement necessary

3 - Generally satisfactory

4 - Good

The Environmental Health Officer's (EHO) role is to inspect premises in order to ensure the food an establishment produces is safe to eat.

At the end of their visit, in England, Wales, and Northern Ireland. the EHO will present the establishment with a score from the Food Hygiene Rating scheme of 0 - 5.



FOOD HYGIENE RATING









Allergic Reactions

Symptoms can occur anywhere from a few minutes after exposure to a few hours later, and they may include some of the following:

- Swelling of the tongue, mouth or face
- Difficulty breathing
- Low blood pressure
- Vomiting
- Diarrhea
- Hives
- Itchy rash



In more severe cases, a food which can quickly become

Common Allergens

COW'S MILK



Milk, Milk powder, Cheese, Butter, Margarine, Yogurt, Cream, Ice Cream

SHELLFISH



Shrimp, Prawns, Crayfish, Lobster, Sauid, Scallops

Define what is a food intolerance

A food intolerance is....a longterm condition where certain foods cause someone to feel unwell and have a range of symptoms. It is not usually life threatening but can be very hard for doctors to detect. It can cause people to feel unwell most of the time.

Lactose intolerance

Lactose is the natural SUGAR found in milk. People with lactose intolerance cannot **DIGEST** it properly leaving the **BACTERIA** in the large intestine to break it down instead. This bacteria produces a lot of GAS this causes bloating, flatulence, stomach pain, diarrhoea and nausea. If you have lactose intolerance you will feel unwell MOST of the time.

To control the condition they must avoid drinking MILK and eating milk products such as: CHEESE, YOGHURT, BUTTER AND CREAM. They also must look on food LABELS to see if any milk has been used to make the product.

There are many dairy free 'milks' on the market made from RICE, OATS and SOYA beans than can be used instead of cows milk.



Coeliac disease

Coeliac disease is caused by their immune system reacting to GLUTEN, which is found in WHEAT, barley, OATS and rye and food products that contain them. The immune system 'thinks' that the gluten will ATTACK the body so it sends out ANTIBODIES to destroy it. But these then damage the VILLI lining the small intestine. This means they are unable to ABSORB as many nutrients. This can lead to malnutrition and symptoms can include: ANEAMIA, WEIGHT LOSS, TIREDNESS, LACK OF ENERGY. Children with coeliac disease will not GROW properly.

There are many aluten-free food products available. Coeliacs can also eat: POLENTA, ALMONDS, CHESTNUTS, CORN, PEAS, BEANS, RICE.



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.



Skills completed in year 9 Section 2 Crushing Dry frying Rolling Stir frying Baking Reducing sauce **Beating Batter 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.

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

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 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.

<u>Squeegee:</u> 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,

<u>Batik:</u> 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.

<u>Tjanting Tool:</u> 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.

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 5mm 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

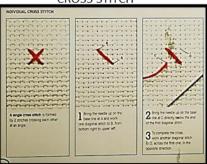


. Tie the threads together and trim.

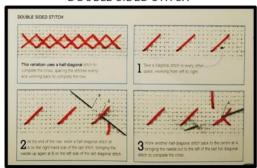
gathering easier.

Section 2

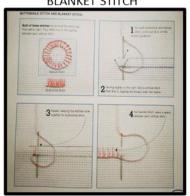
CROSS STITCH



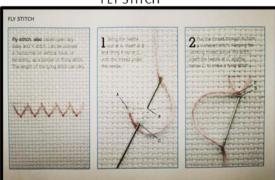
DOUBLE SIDED STITCH



BLANKET STITCH



FLY STITCH



Computer and Video Game Music

1

Early Computer and Video Game Music



Early video game music consisted primarily of SOUND EFFECTS (an artificially created or enhanced sound used to emphasize certain actions within computer and video games), CHIPTUNES or 8-BIT MUSIC (a style of electronic music which used simple melodies made for programmable sound generator (PSG) sound chips in

vintage computers, consoles and arcade machines) and early sound SYNTHESISER technology (an electronic musical instrument that generates audio signals that may be converted to sound). SAMPLING (the technique of digitally encoding music or sound and reusing it as part of a composition or recording) began in the 1980's allowing sound to be played during the game, making it more realistic and less "synthetic-sounding".

How Computer and Video Game Music is Produced



Fully-orchestrated SOUNDTRACKS (video game music scores) are now popular – technology is used in their creation but less in their performance. The composer uses MUSIC TECHNOLOGY to create the score, it is then played by an ORCHESTRA and then digitally converted and integrated into the game. Video game SOUNDTRACKS have become popular and are now commercially sold and performed in concert with

some radio stations featuring entire shows dedicated to video game music.

SUBJECT

How Computer and Video Game Music is used within a Game

Music within a computer or video game is often used for CUES (knowing when a significant event was about to occur).

Video game music is often heard over a game's title screen (called the GROUND THEME), options menu and bonus content as well as during the entire gameplay. Music can be used to INCREASE TENSION AND SUSPENSE e.g. during battles and chases, when the player must make a decision within the game (a DECISION MOTIF) and can change, depending on a player's actions or situation

e.g. indicating missing actions or "pick-ups".

Musical Features of Computer and Video Game Music STACCATO CHROMATIC MOVEMENT

Where the bass line often moves by LEAP (DISJUNCT MOVEMENT) leaving 'gaps' between notes

ARTICULATION
Performing each
note sharply and
detached from
the others.
Shown by a dot.



" jumpy feel to the music.

Character Themes in Computer and Video Game Music



Characters within a video game can also have their own

CHARACTER THEMES or CHARACTER MOTIFS – like LEITMOTIFS

within Film Music. These can be manipulated, altered and changed

– adapting the elements of music – ORCHESTRATION (the act of
arranging a piece of music for an orchestra and assigning parts to
the different musical instruments), TIMBRE, SONORITY, TEXTURE,

PITCH, TEMPO, DYNAMICS – depending on the character's situation
or different places they travel to within the game.

amous Computer and Video Game Music Composers and their Soundtracks



Koji Kondo Super Mario Bros. (1985) The Legend of Zelda (1986)



Michael Giacchino te Lost World: Jurassic Park (19: Medal of Honour (1999) Call of Duty (2003)



Mieko Ishikawa Drogon Sloyer (1993)



Martin O'Donnell and Michael Salvatori Halo (2002)



Minecroft (2011)



Fortnite (2017)

RIFF

Use your right hand for this part. Remember to use a metronome/click track to help you stay in time (the original is around 135bpm). A crotchet (J) is worth 1 beat and quavers (J) are worth 1/2 beat each.



BASSLINE

Use your left hand for this part. Each note is a semibreve and is worth 4 beats.



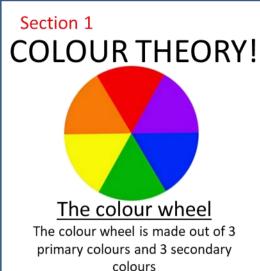
COUNTER-MELODY

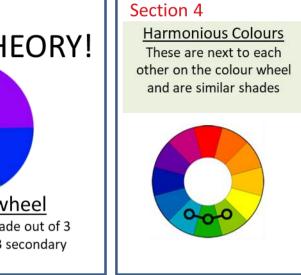
This melody fits over both parts as a different layer. It uses a combination of crotchets, quavers and semibreves as you have learned above.

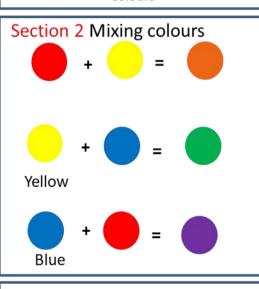


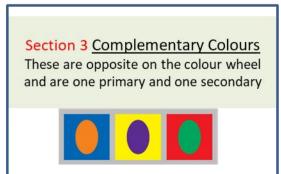
2	Grime	
1	Grime music	a genre of EDM created in London in the early 2000s. It was influenced by garage and jungle.
2	Musicians	Skepta, Dizzee Rascal and Stormzy

2	A CONTRACTOR OF THE PARTY OF TH					
3 Note	Symbol	Technical Nan	ne	Note	Dura	tion
	0	Semibreve	Semibreve		beats	
	.	Dotted Minin	Dotted Minim		beats	
		Minim		2	beats	
	J.	Dotted Crotch	et	3/	4 beat	s
	J	Crotchet			1 beat	
	л	2 Quavers		1/2	+ 1/2 :	= 1
-	ń	Triplet		3 quavers in the time of 2 beats		
	J	Quaver	Quaver		1/2 beat	
/-	ole Clef: Played with higher pit	The state of the s		Clef: Pla with lowe	T	
	Lines	of the Stave		Spaces	of the	Stave
Right Hand (Treble Clef)	E G B D F		& . FAC	A E in the sp	C paces	E
Left Hand (Bass Clef)	9: G B Green Busse	D F A s Drive Fast Always	AII C	C Cows Eat 0	E Grass	G









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 clav
- · 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
- 3. 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





SUBJECT

Section 1

Modern Materials are materials that have been developed recently		
Material	Key info	Examples
Corn- starch Polymers	These are plant-based polymers that are a replacement for plastics that are biodegradable but cannot be recycled.	Plastic bottles, tubs, food containers, etc
Flexible MDF Made in the same way as normal MDF but with grooves cut into the surface so it is flexible. Flexiply is the same but for Plywood. These can easily be shaped into curves		Modern furniture, interior walls and room dividers
Titanium	High strength to weight ratio. Doesn't corrode or rust. Suitable for medical use as its hypo-allergneic	Prosthetics, medical applications, sports cars, etc
Kevlar A woven polymer with a high strength to weight ratio.		Bullet-proof vests, tyres, helmets, etc

Section 3

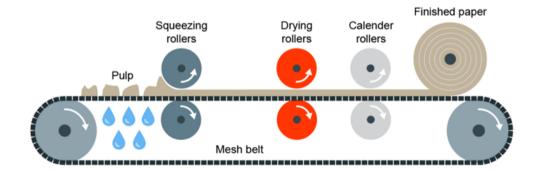
Smart Materials are materials that change and react to the stimuli **Key info** Material **Examples Thermochro** Change colour in reaction to Kettles, baby mic heat bottles, etc **Pigments** Colour changing Change colour in reaction to **Photochromi** glasses, windows, light c Pigments etc Shape Returns to its original shape, in Braces and glasses Memory reaction to heat Alloy Granules that once exposed to hot water, become a modelling Modelling and **Polymorph** material (like a dough or clay) repairs

Section 2

Papers and Boards come from trees. The Stock forms for papers are: rolls, sheets, A4, A3, etc				
Material	Key info	Uses/ Examples		
Cartridge Paper Thick white paper, completely opaque and more expensive than photocopy paper Sketching, ink drawi		Sketching, ink drawings		
Layout Paper Light, semi-translucent, good for blending inks and artist markers Sketching, drawing some tracing		Sketching, drawing and some tracing		
Corrugated Strong but light. Rigid triangles of card sandwiched between a top and bottom layer.		Outer packaging, food packaging		
Duplex Board	Light card with white outside layers. Waxy coating can be added	Cheap packaging. If waxy coating is applied, can be used for food		
Foil-lined Board	White card coated with a thin aluminium layer. Foil is great for insulation and water resistance	Takeaway containers		
Solid White Board	High-quality white card with a smooth finish. Stiff and holds colours well	Greetings cards, packaging and advertising		

Section 4

Primary Processing of Papers and Boards



Paper is made by first making pulp. Pulp is a mix of tree fibres and water. This is cooked and bleached white, and adding any other additives.

The pulp is then drained and goes through **Calendering** where the pulp is drained and goes through rollers to convert it to its stock forms

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.

The digital camera has the capability to take photographs and store them digitally through memory cards. They have limited functions and

their capture method is to

'point and shoot'.



Section 3 Photography Rules

	Rule of Thirds Position subject on the crosshairs	Framing Frame subject with surrounding objects -
••••	Repetition Look for repeating objects - pile of fruit, row of poles etc	Leading Lines Road, rails, lines of lampposts, buildings etc leading to subject
À	Negative Space Leave space for subject to move into	Colour Use complimentary or opposing colours in background
3 2	Balancing Elements Balance background interest with foreground subject	Differential Focus Subject in sharp focus to guide the eye
the res	Symmetry Half of the image is a mirror of the other half	Patterns Look for naturally occurring & constructed patterns
	Depth (layers) Position subject in front of and behind objects to create 3D depth	Depth of Field Blur background &/or foreground to separate your subject
₩ Å	Viewpoint Photograph from different angles - get low, get high	Triangles & Diagonals Look for diagonals in a scene, create triangles
3	Fill the Frame Get in close and fill the frame with your subject	Simplicity Cut out distractions - get close, blur background, darken background
Å → →	Left to Right Rule Moving subjects should go from left of frame to right of frame	Rule of Space Leave space around your subject
***************************************	Rule of Odds Look for odd numbered design elements - 3 arches, 5 windows etc	brought to you by www.thelenslounge.com

Section 4 Slinkachu and Peter Root

Slinkachu (Devon, UK) has been "abandoning" his miniature people on the streets of cities around the world. His work embodies elements of street art, sculpture, installation art and photography and has been exhibited in galleries and museums

plobally. Peter Root's work involves turning staples into Cityscapes. Thousands of staples are stacked and aligned to look like cities. These are then Photographed using strong depth of field and focus. There are many hours put into these.





Section 5 Key Vocabulary

Ambient light/Natural light Is the light that is already present in the scene you are shooting.

Camera Angle Is the specific location at which the camera is located so it can take the shot.

Contrast (noun) Is the difference between the light and dark areas within your images. High contrast means the blacks are darker and whites are brighter, vice versa.

Depth

of Field (noun) is the distance between the closest and farthest subjects in a scene that look noticeably sharp in an image.

Exposure (noun) Is the amount of light entering the camera's sensor. Too much light and the image is overexposed and not enough light and it's underexposed.

Focal Point (noun) Is the main part of the image or a point of interest within the

Blur (noun) The loss of sharpness in a photographic image resulting from motion of the subject or the camera during exposure.

Section 6 The Formal Elements

Black & White— Images that have zero colour. It consists of shades of grey tone.

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.



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, 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.



DAA CYCLE 1 KNOWLEDGE ORGANISER SUBJECT ICT & COMPUTING TOPIC(S) PRE-PRODUCTION DOCUMENTS YEAR GROUP 9

Pre Production Keywords:

Pre-Production	Documents	Client brief	Purpose	Audience
Audience requirements	Client requirements	Success criteria	House style	Mind map
Mood board	Visualisations	Storyboards	Layout	Timing
Annotation	Script	Plan	Design	Hardware
Software	Legislation	Work plan	File types	Evaluate

		Section 1	
Mood board	A mood board is a collection of sample materials and products. Generate ideas by collecting a range of material. To show creativity	Mood boards can be digital or physical. Images, colours, typography (text) Digital: sound and video Physical: fabrics, materials, objects	SHADES OF BLUE The colour of my mood, thoughts and behaviors
Mind Map	A way of organising thoughts and ideas. To develop and show links between different parts of the project. To show connections and link between different parts of the project.	Central node Sub nodes Connectors Text Images	Test Topic 4 Topic 1 Test Topic 2 Test Topic 2 Test
Visualisation	This is rough drawing or sketch of what the final product is intended to look like. Usually, hand drawn. To plan the layout in a visual manner. To show what the finished item might look like.	Image (description, size, type) Text (style, size, colour) Background colour Dimensions Annotations	The state of the s

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		Section 2:	
Storyboard	A storyboard is used to illustrate a sequence of moving images and has a flow of scenes that follow a timeline. To provide a visual representation of how a media project will look on a timeline. Provide an illustration of what the sequence of movements will look like.	Storyboards may include: Number of scenes Camera Shots Camera Movement Timings Lighting Sounds SFX Locations Camera Shots LS: Long Shot MS: Medium Shot CU: Close Up Camera movements Zoom, pan, tilt, dolly, truck Camera angles High, low, wide	SHOT THE DINNER HALL. SHOT THE DINNER HALL. The children and feasiblest hands stated by the but the state has surprised to the state of him. SHOT THE DINNER HALL. THE DINNER HALL. But the sate flair SHOT THE DINNER HALL. But the sate flair CU State for sale sate flair SHOT THE DINNER HALL. But the sate flair CU State flair SHOT THE DINNER HALL. But the sate flair CU State flair C
Scripts	A script is a piece of written work that can be for a movie, audio, audio- visual or screenplay. It includes information about the media product. To identify the location of where the action takes place, the scene and actors. It provides direction for actors and production crew. It also provides the dialogue.	Dialogue Set or location Scene direction Camera shot Camera movement Character names	SHREK Face it, Donkey! We're lost. DONKEY We can't be lost. We followed the King's instructions exactly. "Head to the darkest part of the woods" Past the sinister trees with scary-looking branches." The bush shaped like Shirley Bassey!

Legislation Keywords

		Section 3	
Legislation	Intellectual Property: Refers to creations of the mind. A way of protecting your creation so you benefit from your own work. A form of protection.	Copyright Creative Commons Fair Use Patent Trademark	TM P C R
Copyright	Introduced to protect people who have created original pieces of work.	Trade Secret	A secret device or technique used by a company in manufacturing its products.
Patent	A government authority or licence conferring a right or title for a set period, especially the sole right to exclude others from making, using, or selling an invention.	Creative Commons	They allow the copyright owner to say exactly what other people can and can't do with or to their work. Must give credit to the owner.
Trademark	A symbol, word, or words legally registered or established by use as representing a company or product.	Fair Use	The legal right to use copyrighted images as long as the images are used for educational, research purposes
		Section 4	
Copyright, Designs and Patent Act 1988	Copyright protects your work and stops others from using it without your permission.	Stealing someone's creation Loss of income	Consequences No limit to fine Maximum of ten years in prison
Trademark Act 1999	The current law that covers: the registration of trademarks and. the protection of registered trademarks in the UK.	Impact Causes harm to reputation	Consequences £5,000 fine Between 6 months to 10 years in prison
	McDonald's R	← TM	 R = A registered trademark is a trademark registered under the Trademarks Act, 1999. TM = Unregistered trademarks are trademarks not registered under the Trademarks Act of 1999. These are protected in a limited or specific area where they have gained a reputation.

Key outcomes	Topics covered
Savings	Saving or savings Delayed gratification Ways to save Types of account Current accounts
Savings	Interest Compound interest Why do banks pay interest? Comparing interest Features of a savings account
Saving	Impact of inflation Premium bonds Money and mental health
Making the most of your money	Spending Needs and wants Influences on spending Digital marketing Ways to pay – cash – card - digital
Making the most of your money	Budgeting Committed spending Discretionary expenditure
Making the most of your money	Multiple money pots Manage a cash book Budgeting apps
Making the most of your money	Value for money Shopping around Price comparison sites Online perusal
Making the most of your money	Information and review sites Comparing prices in supermarkets Know your rights

Key outcomes	Topics covered
Borrowing	Good debt Bad debt Repayment interest Compound interest
Borrowing	APR How banks make decisions Credit history
Borrowing	Personal loans Credit card Store card
Borrowing	Overdraft Hire purchase Student loan Mortgage
Borrowing	Payday lenders Loan sharks Manageable and unmanageable debt
Borrowing	Debt advice Debt solutions Payment plans IVA's Bankruptcy

- •All organisations must have a safeguarding policy that states their ways of working and procedures to follow any safeguarding related incidents.
- •All staff must be trained so that they are aware of the policy.

Designated safeguarding lead (DSL)

•The person in an organisation/service that has responsibility for safeguarding.

Common safeguarding issues in adult care environments

- •Maladministration of medication incorrect, late or inappropriate.
- •<u>Pressure sores</u> service users who are frail and have restricted mobility can develop bed sores/blisters on parts of their body which receive the most pressure. If untreated, these can become infected and deep.
- Falls residents not being assessed on their risk of falls and walking aids not being provided.
- •Rough treatment being rushed, shouted at, ignored.
- <u>Poor nutritional care -</u> appropriate food not provided which is suitable for chewing/swallowing, religious/dietary needs.
- •<u>Lack of social inclusion -</u> no stimulation, activity, opportunities for social interaction
- Physical abuse between residents or residents and staff.
- •<u>Financial abuse</u> theft of money or possessions, staff accepting inappropriate gifts.
- •<u>Institutional abuse -</u> providing poor/inadequate standards of care such as ignoring the dignity, privacy, choice and independence of service users.

The 'Five Rs'

- •<u>Recognise (all staff)</u> <u>Recognising signs and symptoms of abuse or harm.</u> Sometimes it may be a direct disclosure made by the service user.
- •Respond (all staff) Any issue must be reported such as a disclosure or just a suspicion (do not ask questions, reassure them that they have done the right thing, inform them that the information must be passed on).
- •Report (all staff) Any concerns must be reported to the DSL immediately so that they can take further action.
- •Record (DSL) The concern will be recorded about the disclosure/suspicion raised with them.
- •Refer (DSL) An investigation will be carried out into any complaints, allegations or suspicions and will contact the police if a crime is suspected.

Disclosure and Barring Service (DBS)

- •Closely linked with the police and helps prevent unsuitable people from working with vulnerable service users.
- •DBS checks are required for anyone aged over 16 years old for roles that involve either working/volunteering with children or vulnerable adults or wanting to foster or adopt a child.

Three types of DBS checks:

- •<u>Standard -</u> checks from criminal convictions, cautions, reprimands and final warnings.
- •Enhanced an additional check of any information held by police that is relevant to the role being applied for.
- •Enhanced with barred list checks additionally checks the barred list (list of individuals who are on record as being unsuitable for working with children or vulnerable adults). Therefore, would not be allowed to work in a health or social care setting.

- Different care settings have different equipment and types of furniture which will all need to be cleaned regularly.
- Methods of maintaining general cleanliness will vary depending on the setting. However, there are standard ways to maintain a clean and hygienic environment.

General cleanliness

Germs grow easily in most environments that are warm and light. In order to prevent the spread of infection, general cleaning should take place regularly, such as:

- •Using anti-bacterial sprays on surfaces.
- •Clean toys and play equipment regularly.
- •Mop floors and vacuum carpets daily.
- •Clean and disinfect toilets regularly.
- •Dispose of hazardous waste (colour coded disposal methods).

Personal hygiene measures

- •Hair tied back/covered.
- •Regular brushing of teeth.
- Appropriate protective clothing.
- Open wounds covered.
- Regular showering and hair washing.
- •Appropriate use and disposal of tissues and antiseptic wipes.
- No jewellery/nail polish.
- Correct hand-washing routines.

Personal Protective Equipment

PROTECTING SERVICE USERS AND SERVICE PROVIDERS IN H&SC SETTINGS

•Wearing Personal Protective Equipment (PPE) is a barrier method of preventing the spread of infection.

Examples of Personal Protective Equipment:

- •Disposable aprons, disposable gloves, rubber gloves after each procedure these should be removed and replaced with a new one.
- Face masks retains droplets released when talking, sneezing and coughing.
- Hair nets and hygiene hats when serving food, changing dressings to open wounds.
- Overalls, over shoes reduces the likelihood of transferring germs.
- •Surgical garments/scrubs protect the service provider and patient from infection when having surgical procedures carried out.

How personal hygiene measures protect service users

Personal hygiene measures can protect service users in the following ways:

- •Correct hand washing routines can destroy germs and stop them from being transferred.
- •The service user carries fewer germs, which reduces opportunity for spreading infection.
- •Barrier methods reduce and prevent the transfer of germs and spread of infection. E.g. disposable gloves
- •Not wearing jewellery removed places for germs to be trapped.
- Not wearing nail polish removes the risk of it flaking off and contaminating food or a wound.
- •If hair is tied back or covered, it can't drop into food and contaminate it with any germs that may be present.

YEAR GROUP

Fitness Test methods for components of fitness

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Box No 1: Fitness testing – Flexibility – Sit and reach

Test and purpose	Advantages + Disadvantages	Validity – Reliability - Practicality
Flexibility – Sit and reach test (Usually measures in cm or inches).	Advantages: • It is Quick and easy to conduct.	Validity – Only a valid test of flexibility in the hamstrings and lower back not the rest of the body.
Purpose: To test/measure flexibility in the lower back and hamstrings. Equipment: Sit and reach box.	Only tests flexibility in the hamstrings Trunk and arm length can make comparisons hard.	Reliability - You need to make sure that you have the same length and type of warm up each time you do the test as warming up may increase flexibility.
	compansons nard.	Practicality – Practical test – only takes a short amount of time to conduct. However, you do need the sit and reach box.

Box No 2: Fitness testing - Muscular Strength - Hand grip dynamometer

Test and purpose	Advantages + Disadvantages	Validity – Reliability - Practicality
Muscular strength – Hand grip dynamometer test (measured in KgW) Purpose: To measure muscular strength by squeezing	Advantages: It is Quick and easy to conduct. Can be conducted anywhere Little equipment needed.	Validity – The hang grip test would not be a suitable test to measure leg strength so be careful when answering questions!
muscles in the hand.	Disadvantages:	Reliability – Make sure you complete the test three times each hand and take an average to get more reliable results.
Equipment: A grip dynamometer.	 Equipment is specialised Can only test one person at a time. 	Practicality – Easy to conduct – but need specialised equipment.

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Box No 3: Fitness Testing – Aerobic Endurance – Multi stage fitness test.

Test and purpose	Advantages + Disadvantages	Validity – Reliability - Practicality
Aerobic Endurance – Multi Stage Fitness Test (MSFT) Purpose: To measure your predicted maximum oxygen	Advantages: The test is very easy to conduct. Can be conducted indoors or out.	Validity - The test is more valid for a long-distance runner than a long-distance swimmer as it more closely reflects their activity.
uptake (Aerobic Endurance) Definition of VO2 max (ml/kg/min): the maximum amount of oxygen uptake, usually measured in ml of oxygen per kg of body mass per minute. It is a measure	 You can test large amounts of people at once. Disadvantages: Must have a copy of MSFT audio. 	Reliability - The reliability of this test relies on the distance being accurately measured every time and the environment the test is conducted in remaining constant.
of cardiorespiratory endurance. Equipment needed: A flat non slip surface, a 30m tape	The spacing of the cones must be precise in order for reliable results.	Practicality – Very practical test to conduct can test many people at once.
measure, cones, MSFT CD, CD player, someone to record the results.		

Box No 4: Fitness Testing – Aerobic Endurance – Forestry Step Test

Test and purpose	Advantages + Disadvantages	Validity – Reliability - Practicality
Aerobic Endurance – Forestry Step Test Purpose: To measure your aerobic endurance/V02 Max. Definition of VO2 max (ml/kg/min): the maximum amount of oxygen uptake, usually measured in ml of oxygen per kg of body mass per minute. It is a measure of cardiorespiratory endurance. Equipment needed: A step bench 40cm high for males 33cm high for females, a metronome set a 90BPM (22.5 steps per minute) a stopwatch.	Advantages:	Validity – More valid for some performers than others, depends on the situation. Reliability - Help ensure reliability by measuring the height of the step and making sure the pulse is taken at the correct time. Practicality – A practical test to conduct as can be self-administered.

Box No 5: Fitness Testing – Speed – 30m Sprint test

Test and purpose	Advantages + Disadvantages	Validity – Reliability - Practicality
Speed – 30m sprint test Purpose: To measure your speed (s) Equipment needed: Two cones, a tape measure, stopwatch and a flat surface.	Advantages:	Validity – More valid for a sprinter than a swimmer/cyclist measuring speed. Reliability - The test must be conducted the same way each time to ensure reliability. The 35m distance must be measured carefully each time, and the test should be completed in the same weather conditions and terrain. Also, same warm up must be complete each time. Practicality – A practical test to conduct very easy to set up and minimal equipment/space needed.

Box No 6: Fitness Testing – Speed and agility – Illinois Agility Test

Test and purpose	Advantages + Disadvantages	Validity – Reliability - Practicality
Agility – Illinois agility test	Advantages: • The test is very easy to set up and	Validity – Not an accurate representation of sporting situations.
Purpose: To measure your speed and Agility (s)	conduct on any non-slip surface. • Requires minimal equipment	Reliability - It is really important that the distance between
Equipment needed: 8 cones, a tape measure, stopwatch.	Can be conducted in or outside.	the cones is accurately measured every time the test is conducted to ensure that the course remains the same.
	Disadvantages:	
	 Human error when timing scores You may need another person to help you with the test. 	Practicality – Practical test to conduct.

Box No 7: Fitness Testing – Anaerobic Power– Vertical Jump Test

Test and purpose	Advantages + Disadvantages	Validity – Reliability - Practicality
Power – Vertical Jump Test Purpose: To measure Anaerobic power in the legs. Equipment needed: Jump test board, large ruler, marker pen.	 Advantages: The test is very easy to set up Requires minimal equipment Can be conducted in any setting. Disadvantages: Human error when taking measurements You need another person to help you with the test. Technique plays a part in maximising score. 	Validity – This test is a valid measure of anaerobic power in the legs; it would not be a valid measure of anaerobic power in any other body part. Reliability - To ensure reliability each time the test is completed it should be: - Conducted at the same time of the day - Conducted after the same warm up - Conducted in the same conditions - Measurements should be taken by the same person using a metre ruler or a vertical Practicality – Practical test to conduct.

Box No 8: Fitness Testing – Muscular Endurance – One minute press up test

Test and purpose	Advantages + Disadvantages	Validity – Reliability - Practicality
Muscular Endurance – One-minute press up Test Purpose: To measure muscular endurance in the upper body.	Advantages: The test is very easy to set up Requires minimal equipment Can be conducted in any setting.	Validity – To ensure the results are valid make sure you make not of what type of press up you completed. Validity can vary as people can do easier or harder press-ups – is this a fair comparison? Only valid for upper body.
Equipment needed: Exercise mat and stopwatch.	Disadvantages:	Reliability - Ensure the test conditions remain the same. Difference in press up technique can make results unreliable.
		Practicality – Practical test to conduct.

Box No 9: Fitness Testing – Muscular Endurance – One minute sit up test

Test and purpose	Advantages + Disadvantages	Validity – Reliability - Practicality
Muscular Endurance – One-minute Sit up Test	Advantages:	Validity – Only valid for abdominal muscles.
Purpose: To measure muscular endurance in the abdominal muscles	 The test is very easy to set up Requires minimal equipment Can be conducted in any setting. 	Reliability - To ensure the test is reliable it is important that the same warm up is completed each time the test is conducted.
Equipment needed: Exercise mat and stopwatch.	Disadvantages:	Practicality – Practical test to conduct.

Box No 10: Fitness Testing –Body composition – Skinfold test.

Test and purpose	Advantages + Disadvantages	Validity – Reliability - Practicality
Body composition – Skinfold Test	Advantages:	Validity – A valid test of body fat percentages.
Purpose: To predict percentage of body fat.	An accurate test of body fat. Disadvantages:	Reliability - To ensure the test is reliable it is important that the same person conduct the test and that each site is
Equipment needed: Skinfold calipers, tape measure, pen to mark the sites.	 Can be uncomfortable The participant may feel uncomfortable when removing clothing which may be 	measures 3 times to take an average result. Results can be hindered if people don't remove clothing fully.
Male sites: Chest, abdominal, thigh	embarrassing.	Practicality – Practicality can be affected as people may feel uncomfortable.
Female sites: Thigh, Triceps, suprailiac		

Box No 11: Fitness Testing –Body composition – BIA

Test and purpose	Advantages + Disadvantages	Validity – Reliability - Practicality
Body composition – BIA	Advantages:	Validity – The most valid test of body fat percentages.
Purpose: To predict percentage of body fat. Equipment needed: Bioelectrical impedance analysis machine	 Most accurate way to distinguish between muscle and fat in the body. You only have to uncover your right hand and right foot so it is less embarrassing than the skinfold test. Disadvantages: Equipment is specialised and expensive The test relies on the participant being well hydrated and to have not done any vigorous exercise 	Reliability – You must be well hydrated and have not exercised before the test. Practicality – Practical to conduct but equipment is expensive and specialised can only conducted with the equipment and someone who can read the data correctly.

Box No 12: Fitness Testing -Body composition - BMI

Test and purpose	Advantages + Disadvantages	Validity – Reliability - Practicality
Body composition – BMI	Advantages: • Simple and easy to conduct – no specialist	Validity – The test is not always valid – it does not take into consideration muscle mass.
Purpose: To predict percentage of body fat.	equipment. • The test is non invasive Disadvantages:	Reliability – Ensure calibration of scales is correct each time and accurate reading of height is taken – do not wear shoes.
Equipment needed: Scales, Long ruler, calculator.	Not always accurate for muscular individuals. Test is not always valid.	Practicality – Practical and non-invasive test to conduct.

Impacts on service users due to a lack of safeguarding

•If safeguarding procedures are not followed, the impacts on service users can be known as PIES (Physical, Intellectual, Emotional, Social)

Physical impacts

- Anxiety.
- Broken bones.
- Bruises.
- Depression.
- •Illness.
- Injury.
- ·Lack of sleep.
- Pain.
- Poor health/deterioration.
- •Self-harm injuries.



These relate to a service users body and can quite often be visible

Intellectual impacts

- Confusion.
- Can't think straight.
- Denial.
- Lack of skills development.
- Lack of interest.
- · Lack of motivation.
- Lack of understanding.
- Loss of concentration.
- Not asking questions.



These relate to the service users thought processes such as thinking skills, understanding, learning, reasoning, comprehension and knowledge

Emotional impacts

- ·Feeling betrayed.
- Feeling disempowered.
- ·Feeling excluded.
- Feeling unsafe.
- ·Feeling afraid.
- •Feeling upset.
- •Feeling unhappy.
- •Loss of self-confidence.
- Loss of self-esteem.
- ·Poor mental health.
- Self-harm.
- ·Being withdrawn.

These relate to a service users feelings

Social impacts

- Becoming anti-social.
- Aggression.
- ·Behavioural problems.
- Being isolated.
- · Lack of trust in others.
- •Refusal to use the service.
- •Un co-operative.
- ·Withdrawal from other people.





These relate to the service users relationship with others

Stay safe,

tell someone...

All the staff are here to help and support you



Safeguarding Team:

Mr Bibby (Designated Safeguarding Lead)

Ms McDonald (SENDCO)

Safety and well-being...

If you are worried about your welfare or safety, or that of a friend you could access the NSPCC services. www.childline.org.uk 0800 1111

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

For support with your mental health and staying happy and healthy visit the Mental Health Foundation. www.mentalhealth.org.uk

For non-emergency advice you can email

DAA safeguarding@dixonsaa.com. Give your full name and Year group.

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

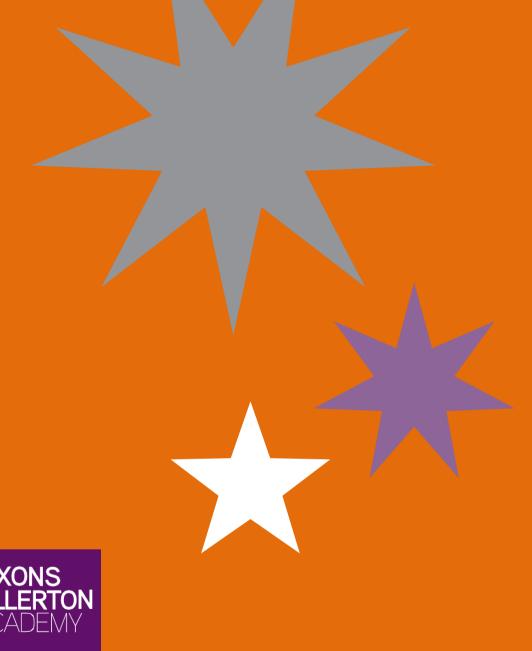




Happiness

Industry

Responsibility





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