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YEAR 9 TERM 1 2023-2024 KNOWLEDGE ORGANISER

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Contents

Introduction	Page 3-4
English	Page 6
Maths	Page 7-13
Science	Page 14-16
History	Page 17-22
Geography	Page 23-24
Spanish	Page 25-27
Computing	Page 28
Religious Education	Page 29
Design Technology	Page 30-32
Art	Page 33-36
Performing Arts	Page 37
Music	Page 38-39

Introduction

Foundational Knowledge and Retrieval Practice

If we try and build a house on sand it will fall down, as the foundations are not secure and over time will disappear. That's a bit like what happens if your teacher tries to get you to understand complex ideas, but you haven't yet grasped the basics on which to connect the new information, and therefore you cannot build on it and develop what scientists call **schema** in your mind.

To support you in having foundational knowledge in each subject, your teachers have identified some key basic knowledge that they will teach you first, but then you will be asked to consolidate this by reviewing it at home and completing a quiz about it for homework - this process is called **retrieval**.

Research tells us that the process of **keep reviewing key chunks** of material by reading it, rehearsing it, trying to recall it and checking you got it right will help you to remember it longer term, so that you feel more confident in your lessons when teachers do refer to it.



Introduction

The Forgetting Curve

A psychologist called Hermann Ebbinghaus discovered that shortly after you have learned something, you quickly forget some of it. He represented this process with this' **forgetting curve'**.

He found however that if you reviewed that information at specific time points after having first learned it – the rate at which you forget can be reduced. He called this 'spaced practice'

To help you to remember key information your teachers will do the following:

- Identify in lesson key terms or pieces of information that are important to learn.
- Tell you which bits of the subject knowledge organiser to review and recall at home.
- Set you a homework quiz to check what you can recall.
- In future quizzes include some questions already tested.
- Revisit key questions that most of the class struggled with.







Learn from failures, work through RESILIENCE problems and never give up. Be better today than you were yesterday. Aim high and set yourself challenging ASPIRATION goals both academically and personally. What does the future hold for you? Accept support and offer it. COMMUNITY Give something back to the Academy and the community. Be responsible for your actions, RESPONSIBILITY celebrate successes and learn from your failures. Do not make excuses.

CONFIDENCE

Don't be afraid to get things wrong. Believe in yourself and your abilities and step outside your comfort zone.

English

Using this knowledge organiser:

Every Week A you will be given ten pieces of vocabulary.

Across this week, you will need to find a coherent definition for each piece of vocabulary and practice the spelling.

This will be tested as part of your English lessons, across that week.

In **Week B**, you will use these same words to complete a short piece of **transactional writing**. You will use the information on this sheet to support you.

At the end of the term, you will complete a project that utilises all you have learnt across this half term.

The Great Gatsby:
 Lost after his experiences in the First World War, Nick Carraway spends a summer in New York, trying to make a career on the infamous Wall Street. Here, Nick finds he lives next door to the mysterious Jay Gatsby. A self-made millionaire, Gatsby's fortune has been won with the intention of impressing Daisy Buchanan, a woman he loved in his younger years.

Fitzgerald often sought to question the American Dream: the belief that anyone, regardless of where they were born or their class, can attain their own version of success. It is built on the idea of the pursuit of happiness, equality and hard work.

The novel is set throughout the Prohibition. Within the United States, this was a nationwide constitutional ban on the production, importation, transportation, and sale of alcoholic beverages from 1920 to 1933. This led to bootlegging (the illegal manufacture and transportation of alcohol) and speakeasies (undercover bars). These were key features of the Jazz Age.

Week A/ 1. Func 2. Cons 3. Unjus 4. Abno 5. Intric 6. Impr 7. Elatic 8. Prom 9. Hesit 10. Scare	<u>B 1</u> : lamental sequence st ormal ate essionability ons ninent ant cely	We 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	ek A/B 2: Motionless Imperceptible Reciprocal Contemptuous Languid Inconsequence Anticipation Profound Fervent Infinitesimal	 ₩ 1. 2. 3. 4. 5. 6. 7. 8. 9. 10 	Assert Assert Inquire Libel Peremptory Nourish Ego Dismal Prosperous Rapture D. Regal
Week A/ 1. Hazy 2. Innu 3. Prop 4. Moc 5. Shrill 6. Rege	<u>B</u> 4 : / merable / ierate ard	Week 1. Po 2. Yi 3. D 4. V 5. Jo 6. C	<u>A/B 5</u> : ersistent ield ignified acuous ovial condescending	We 1. 2. 3. 4. 5. 6.	ek A/B 6: Modest Sceptical Obliged Exhilarating Distraught Enchanting

Conscientious

Unfathomable

Retract

Instinctive

7.

8.

9.

10.

Astounding

Colossal

Vitality

Inconceivable

7.

8.

9.

10.

Triumphant

Majestic

10. Vehement

Deft

7.

8.

9.

Maths



Maths	Finding Functions from Expressions $y = \frac{f+5}{3}$	$f \rightarrow +5 \rightarrow \div 3 \rightarrow y \qquad y = \frac{f}{3}$	$+5 f \Rightarrow \div 3 \Rightarrow +5 \Rightarrow y$
<u>Keywords</u> Function: a relationship that instructs Input: the number / symbol put into Output: the number / expression tha	how to get from an input to an output. a function. t comes out of a function.	Represent Functions GraphiTake the function and gene $y = 2(x + 3)$	cally erate a sequence This becomes
Operation: a mathematical process Inverse: the operation that undoes v operation (the opposite e.g. × & = Commutative: the order of the oper Substitute: replace one variable with	what was done by the previous. $\div + & - & {}^2 & $). ations do not matter. n a number or a new variable.	$Ind_{NI} \rightarrow +3 \rightarrow \times 2 \rightarrow Ind_{INO}$	a coordinate pair (2,10) to plot on a graph
Expression: maths sentence with a n Linear: the difference between term Sequence: items or numbers put in c Term: a single number or variable.	ninimum of two numbers and no = sign. is is the same value from term to term. a pre-decided order.	and the output	1 2 3 T 8 10 12
Two Step Function Machines Calculate the value at the end of each operation	Substituting into Expressions $4y \leftarrow$ 4 lots of yIf y=7 this means you the expression isasking for 4 lots of 7 = 28e.g. $y-2$ $7-2 = 5$	y coordinates 16 14 12 14 12 14 12 14 14 14 14 14 14 14 14 14 14	whs will be linear, with an integer
INPUT → → → OUTPUT The number The number that that goes IN Comes OUT <	y = 2(x + 3) Put the expression into a function machine "add 3 to the input then times 2" 5 5 5	Powers and differently sl	fractions generate haped graphs
To find the input use the INVERSE operations	$ \underbrace{2}_{\text{If } x=10} \xrightarrow{+3} \xrightarrow{+3} \xrightarrow{\times 2} \xrightarrow{+3} \underbrace{5}_{0} \xrightarrow{1}_{0} \xrightarrow{1}_{3} \xrightarrow{1}_{2} \xrightarrow{1}_{2} \xrightarrow{1}_{3} \xrightarrow{1}_{3} \xrightarrow{1}_{2} \xrightarrow{1}_{2} \xrightarrow{1}_{3} \xrightarrow$	INPUT	other values 8

MATHS



MATHS

Keywords Standard (index) form: A system of v	writing very big or very small	Addition and Subtraction		
numbers Commutative: An operation Is comm does not change the result Base: The number that is raised to a Power: The number that tells you ho in multiplication Indices (index): the power Negative: A value below zero	nutative if changing the order power w many times to use the number	6 x 10 ⁵ <u>Method 1</u> 600,000 + 800,000 =1,400,000 =1.4 x 10 ⁵ <u>Method 2</u> (6 + 8) x	More robust method Less room for misconceptions Easier to do with negative indices Can use for negative powers	
Positive powers of 10 1 billion - 1 000 000 000	Standard form with numbers > 1	$= 14 \times 10^{5}$ = 1.4 × 10 ¹ × 10 ⁵ = 1.4 × 10⁵	Only works if the powers are the same	
$10 \times 10 \times$	greater than or equal to 1, less than 10 Any integer (whole number)	Multiplication and Division	On For multiplication and division, look at the values for A and the powers of 10 as two separate calculations	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Example 3.2 x 10 ⁴ =3.2 x 10 x 10 x 10 x 10 = 32000	$\frac{1.5 \times 10^5}{0.3 \times 10^3} $ (1.5	$(10^5) \div (0.3) \times 10^3$	
Any value to the power 0 is always =1	<u>Non – example</u> 0.8 x 10 ⁴ 2.3 x 10 ^{0.7}	$(1.5 \div 0.3))$ $= 5$ $\frac{\text{Addition for Indices}}{a^m \times a^n} = a^{m+n}$	× (10 ³ ÷ 10 ³) × 10 ² $\frac{\text{Subtraction for Indices}}{a^{m} \div a^{n}} = a^{m-n}$	

Maths



MATHS

Keywords Multiplying non-unit fractions **Numerator:** The number above the line on a fraction. The number represents how many parts are Shade Repeat on $\frac{3}{4} \times \frac{2}{3} = \frac{6}{12}$ taken. in 3 this many **Denominator:** The number below the line on a fraction. The number represents the total number of parts rows parts. Whole: A positive number including zero without any decimal or fractional parts. 3 2 $\frac{3}{4} \times \frac{2}{3}$ **Commutative:** An operation is commutative if changing the order does not change the result. 3 Unit Fraction: A fraction where the numerator is one and the denominator is a positive integer. **Dividend:** The amount you want to divide up. This This Divisor: The number that divides another number many many Quotient: The answer after we divide one number by another. eg dividend ÷ divisor = quotient. columns rows **Reciprocal:** A pair of numbers that multiply together to give the answer of 1. Multiplying unit fractions **Dividing any fractions** The Reciprocal Remember to use reciprocals When you multiply a number by its Parts shaded $\frac{1}{4}\times\frac{1}{3}=\frac{1}{12}$ Represented reciprocal, the answer is always 1. $3 \times \frac{1}{3} = 1$ 2 5 $\frac{3}{4}$ Total number of Multiply by parts in the a reciprocal diagram gives the same Modelled: $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} = 1$ $\frac{2}{5}$ X $\frac{4}{3}$ outcome 3 The reciprocal of 3 is $\frac{1}{3}$ and vice 8 15 versa 4

MATHS



Science: Atomic Structure & Periodic Table

Structure of an Atom



Elements: made of only one type of atom. **Compound:** made of two or more types of atoms chemically bonded together. **Mixture:** different elements/different compounds/elements and compounds not chemically bonded.

- If there are two elements in a compound add the ending '-ide.'
- Zinc and oxygen is zinc oxide.
- If there are two elements plus oxygen, add the ending '-ate'.
- Lithium, nitrogen and oxygen is lithium nitrate.

In 1869 Dimitri Mendeleev overcame some of the problems of the early Periodic Table by taking 50 elements and arranging them (mainly by atomic weight) with gaps in between. This was to ensure elements with similar properties stayed in the same group. Some of these gaps were undiscovered elements, however Mendeleev could predict their properties based on where the gap was.



In H_2O there is two hydrogen atoms and one oxygen atom. A number belongs to the element to the left of it and tells you how many atoms of that element there are.

Group 1: alkali metals are soft, react with water to produce hydrogen gas and an alkaline solution. They become more reactive down the group.

Group 7: halogens, fluorine and chlorine are gases, bromine is a liquid, iodine and astatine are solids. They are diatomic so are found as two atoms chemically bonded together.

Group 0: noble gases or group 8 are all gases, they are inert (unreactive). They are monoatomic so are found as single atoms.

Science: Cells & Transport

Plant Cell

Parts of a Light Microscope



Parts of Cells

Cytoplasm — Nucleus

Cell membrane

Mitochondrion
 Permanent vacuale

Cellulose cell wall

Animal cell

Diffusion: movement of gases or liquids from a high concentration to a low concentration. Passive process (no energy required). Along the concentration gradient.

Osmosis: movement of water through a partially permeable membrane (has small holes in it) from a low concentration of solute to a high concentration of solute.

Active transport: movement of substances from a low concentration to a high concentration. Energy from respiration is required. Against the concentration gradient.

Nucleus: contains DNA.

Cytoplasm: jelly-like substance where most chemical reactions take place. **Cell membrane:** allows substances into and out of the cell.

Mitochondria: site of respiration (transfers energy to the cell).

Ribosomes: site of protein synthesis (where proteins are made).

Cell wall: outermost part of a plant cell <u>ONLY</u>, made of cellulose so is rigid and keeps the plant cell's shape.

Vacuole: where cell sap is stored, plant cell ONLY.

Chloroplast: site of photosynthesis (a chemical reaction only plants do that forms glucose, a simple sugar) plant cell **ONLY.**

Red blood cells are specialized cells. They have structures which allow them to do their function (carry oxygen around the body). They have a bi-concave disc shape to increase surface area for diffusion and no nucleus, so they have more haemaglobin (protein that oxygen attaches to).



Eukaryotic cells: DNA is enclosed in a nucleus e.g. animal cells, plant cells, protists (single celled organism) and fungi cells.

Prokaryotic cells: DNA is not enclosed in a nucleus and floats freely in the cytoplasm, e.g. bacteria cells.

Science: Particle Model

Density: the 'compactness' of a substance, how much volume it takes up in relation to its mass (kg/m3).



Mass = density x volume Density = mass / volume Volume = mass /density

Physical Change: the material changes state and will recover it's properties if the change is reversed, e.g. ice melting.

Chemical Reaction: a change in bonding leading to new properties, e.g. cooking food.

Conservation of mass: the mass of products made is equal to mass of products reacted. Mass cannot be created or destroyed.

Mass appears to decrease: one of the products is a gas, leaves the reaction and it's mass cannot be found.

Mass appears to increase: one of the reactants was a gas, it is now part of a solid product. Its mass could not be found when it was a gas. **Specific Heat Capacity:** the energy needed to raise the temperature of 1kg of substance by 1°C (J/kg°C). The higher the number the more energy the substance holds.

$\Delta E = m x c x \Delta \theta$

 ΔE : change in thermal energy (J).

m: mass (kg).

C: specific heat capacity (J/kg°C)

 $\Delta \theta$: change in temperature (°C).

Temperature: measure of the average kinetic energy of particles in a substance (°C).

Heat: a type of energy that transfers into the kinetic energy of particles (J).

Internal energy: total kinetic and potential energy of particles in a system.

Specific Latent Heat: the amount of energy required to change the state of 1kg of a substance with no changes in temperature.

$E = m \times L$

L: latent heat (J/kg)

History: World War 1

Write like an Historian



Key term: alliance		Key term: nationalism		Key term: naval	
Variations: Alliances	Definition: A union or association formed for mutual benefit, especially between countries or organizations.	Variations:Definition:Nationalisticidentification withone's own nation andsupport for itsinterests, especially tothe exclusion or detriment of the interestsof other nations.		Variations: Navies	Definition: Relating to a navy or navies
Use it in a sentence:		Use it in a sentence:		Use it in a sentence:	
A defensive alliance between Britain, Russia and France was known as the Triple Entente.		Their nationalism is tempered by a desire to join the European Union.		Pearl Harbour was a naval base that was attacked by the Japanese in 1941, destroying many ships in the process.	
Links to: Association Union League Treaty	Digging deeper: How might alliances cause problems for countries?	Links to: Jingoism Flag-waving Ethnocentrism	Digging deeper: What factors lead a person to feel a strong sense of nationalism?	Links to: Shipping Boats	Digging deeper: Why do you think naval power has been so historically important to Britain?

History: World War 1

Write like an Historian



Key term: imperialism		Key term: militarism		Key term: conscription	
Variations: Imperial Imperialistic	Definition: A policy of extending a country's power and influence through colonisation, use of military force, or other means.	Variations: Militaristic Military	Definition: The belief that a country should maintain a strong military capability and be prepared to use it aggressively to defend or promote	Variations: Conscripted Conscript	Definition: Compulsory enlistmen t for state service, typically into the armed forces. "conscription was extended to married men"
Use it in a sentence: Imperialism was a key cause of WWI, as different countries tried to build their empires.		Use it in a sentence: In the lead up to WWI, the policy of militarism followed by many nations led to great tension.		Use it in a sentence: The German army grew larger as conscription meant men over 18 had to sign up.	
Links to: Empire Expansionism Colonies	Digging deeper: What are the benefits of having an empire?	Links to: Aggression Belligerent Warmonger	Digging deeper: To make a country feel safe, what are the alternatives to militarism?	Links to: Enlistment Drafting Service	Digging deeper: What emotions might people feel when they are conscripted to join the armed forces?

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History: World War 1

Write like an Historian



Key term: munitions		Key term: propaganda		Key term: artillery	
Variations: Munition Munitionette	Definition: Military weapons Ammunition Equipment Stores.	Variations:Definition:PropagandistInformation, especiallyPropagandiseof a biased ormisleading nature,used to promote apolitical cause or pointof view.		Variations:	Definition: Large calibre guns used in warfare on land
Use it in a sentence: The production of munitions was essential for the war effort.		Use it in a sentence: The Nazi Party were particularly skilful in using propaganda to brainwash people.		Use it in a sentence: The sound of artillery fire was deafening.	
Links to: Artillery Guns Weapons Equipment Gear supplies	Digging deeper: What would have happened in WWI had women not been so productive in making munitions?	Links to: Information Promotion Advertising publicity Brainwashing Indoctrination Persuade	Digging deeper: What makes effective propaganda? What makes propaganda less effective?	Links to: Big guns Cannon Battery	Digging deeper: How has artillery changed over the years?

History: Civil Rights

Write like an Historian



Key term: civil rights		Key term: passive resistance		Key term: active resistance	
Variations:	Definition: The rights of citizens to political and social freedom and equality.	Variations: Definition: Non-violent opposition to authority, especially a refusal to cooperate with legal requirements.		Variations:	Definition: Achieving justice by using form of force or violence.
Use it in a sentence: Rosa Parks is a famous example of a person fighting for civil rights, refusing to give up her seat on a bus.		Use it in a sentence: Martin Luther King encouraged his followers to use forms of passive resistance, such as marching and boycotting.		Use it in a sentence: Malcolm X encouraged his followers to use forms of active resistance, such as fighting back or using weapons.	
Links to: Human rights Equal rights Liberty Justice Fair treatment	Digging deeper: What 'civil right' do you feel is most important to your life?	Links to: Peace Moral high ground	Digging deeper: What are the positive and negatives sides to this form of protest?	Links to: Violence Conflict Challenge	Digging deeper: What are the positive and negatives sides to this form of protest?

History: Civil Rights

Write like an Historian



Key term: boycott		Key term: segregation		Key term: freedom	
Variations: Boycotts Boycotted Boycotting	Definition: Withdraw from commercial or social relations with (a country, organization, or person) as a punishment or	Variations: Segregated Segregates Segregating	Definition: The action or state of setting someone or something apart from others.	Variations: Freed Free Freeing	Definition: The power or right to act, speak, or think as one wants.
protest. Use it in a sentence: A bus boycott was used in Montgomery, Alabama in 1955 to fight against racist laws.		Use it in a sentence: Black and white children had to attend different schools in the South of the USA until 1954, due to segregation policies that were followed.		Use it in a sentence: Many enslaved people gained their freedom after the Abolition of Slavery in 1833.	
Links to: Spurn Snub Cold-shoulder Shun Avoid	Digging deeper: Why is boycotting something an effective form of protest?	Links to: Keeping apart Separating Exclusion Shielding Division Quarantine	Digging deeper: Why did some people feel that segregation was something to be encouraged?	Links to: Liberty Liberation Release Emancipation Prerogative	Digging deeper: What impact did the lack of freedom have on different groups you have studied?

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History: Civil Rights

Write like an Historian



Key term: emancipation		Key term: lynch		Key term: racism	
Variations: Emancipated	Definition: The fact or process of being set free from legal, social, or political restrictions; liberation.	Variations: Lynching Lynched	Definition: Kill (someone) for an alleged offence without a legal trial, especially by hanging.	Variations: I Racist I i i i t t	Definition: Prejudice, discrimination, or antagonism by an Individual, community, or Institution against a person or people on the basis of heir membership of a particular racial or ethnic
Use it in a sentence: Abraham Lincoln led the calls for emancipation from slavery in the United States. Use it in a sentence Her father had be didn't commit.		Use it in a sentence: Her father had been lyn didn't commit.	e: n lynched for a crime he Use it in a sentence: The government set up a program racism.		up a programme to combat
Links to: Freedom Liberation	Digging deeper: Do you think enslaved people were truly 'emancipated' the moment the slave trade was abolished?	Links to: Hang Execute Put to death	Digging deeper: Why did so many people get away with lynching African Americans in the United States?	Links to: Prejudice Discrimination Xenophobia Intolerance	Digging deeper: Is the problem of racism in Britain growing or reducing?



Geography



Spanish

			Me gusta ver	Un concurso	Cramitica Land
Todos los días	leo un libro	l read a book.	I like to watch	A quiz show	Acabar de
(everyday) De vez en cuando (From time to time)	hago la compra descargo música subo fotos veo vídeos	I shop online. I download music. I upload photos. I watch videos.	No me gusta ver I don't like to watch	Los dibujos animados Cartoons	The verb <i>acabar</i> means 'to finish', but when used with the preposition <i>de</i> and an infinitive, it means 'to have just'.
Siempre (Always) Los fines de semana (At the weekend) Normalmente (Normally)	juego videojuegos Ilamo por vídeo Ilamada saco fotos	I play videogames. I video call I take photos	Acabo de ver l've just watched Acabas de ver You've just watched Acaba de ver He/she has just	Un documental A documentary Una película A film Un programa de deportes A sports programme	acabo I have just acabas you (sing.) have just acaba + de + infinitive he/she/it has just we have just acabamos you (pl.) have just acaban they have just acabamos de ver una película we have just watched a film acabo de descargar música I have just downloaded music
(sometimes) Cada semana (every week)			Acabamos de ver We've just watched	Un programa de humor A comedy programme Un programa musical	
Nunca (Never) Casi nunca (almost never) Ya no (No longer)	leo un libro hago la compra descargo música subo fotos veo vídeos juego videojuegos llamo por vídeo llamada saco fotos	I read a book. I shop online. I download music. I upload photos. I watch videos. I play videogames. I video call I take photos	Acabáis de ver You've just watched (+1) Acaban de ver They've just watched	A music programme Una serie A series El telediario / las noticias The news Una telenovela A soap	

Spanish

Prefiero	las películas de acción	porque son	Cautivadores	peores	
l prefer	action films	because they	Captivating	worse	
Me encantan I love	las películas cómicas comedies	are	Complejas Complex	predecibles predictable	
Me gustan I like No me gustan I don't like Odio I hate	las películas de ciencia ficción science fiction films las películas de dibujos animados animations las películas de miedo horror films		Decepcionantes Disappointing Entretenidas Entertaining Espeluznantes Terrifying impactantes striking	profundas deep sangrientas gory tristes sad	Gramática Mejor and peor As adjectives, mejor (best) and peor (worst) are placed before the noun and can be singular or plural. Ia mejor pelicula the best film Ios peores libros the worst books As nouns, the expressions lo mejor and io peor can be used to describe the best or worst thing. Lo mejor de la pelicula es la música. The best thing about the film is the music. Lo peor de mi profesor es que es muy estricto. The worst thing about my teacher is that he is very strict.
	western films los musicales		mejores better / best		
	musicals		memorables		
			memorable	me da miedo	it scares me
	las películas de misterio			me hace pensar	it makes me think
	mystery films		nuevas	me hace reir	it makes me lauah
	las películas románticas romantic films		new		

Spanish

	Toco	la guitarra	Quiero ser	Actor / actriz – actor / actresses agradableArquitecto/a – architectit's pleasant					
	i pidy		I wain to be						
	Tocas	la batería	Me gustaría ser	Bibliotecario/a – librarian					
	rou pidy	ine droms	I WOULD LIKE TO DE	Bloguero/a – blogger	es estimulante	Gramática			
	Toca Ha/sha plays	la flauta	Voy a trabajar	Carnicero/a – butcher	it's stimulating	The future tense			
			l'm going to	Científico/a – scientist		The Spanish simple future tense is the			
	Tocamos Wo. play	la gaita	work as	Cocinero/a – chef	es exigente	equivalent of the English 'will' or 'shall'. It is formed by adding the appropriate ending to			
			Trabajaré de	Dentista – dentist	it's demanding	the infinitive.			
	Tocáis You play	la pandereta	I will work as	Electricista – electrician		yo é			
	100 pidy		Mi padre trabaja	Enfermero/a – nurse	es gratificante				
Tocan	Tocan They play	la trumpeta	de My dad works as	Escritor/a – writer	it's satisfying	nosotros/as emos			
				Fontanero – plumber		vosotros/as éis			
	Prefiero tocar	el violín the violin	Mi madre trabaja de	Fotógrafo/a – photographer	el sueldo es alto	ellos/as án			
			My mum works	Granjero/a – Farmer	the wage is high	jugarê I will play			
Tocaba I used to play	Tocaba Lused to play	el teclado the keyboard	as	Jugador/a de fútbol – football player		trabajar as you will work ser emos we will be			
				Mecánico/a – mechanic	tengo que trabajar	n and a state of the state of t			
To I p	loqué played	la guitarra eléctrica		Médico/a – doctor	durante la noche				
				Pescadero/a – fishmonger	I have to work at night				
	Voy a tocar I'm aoina to play			Piloto/a – pilot					
То				Professor/a – teacher	el jefe es agradable				
	locaria I would play			Policía – police officer	The boss is pleasant				
	· · · · · · · · · · · · · · · · · · ·			Recepcionista – receptionist					
	Me gustaria tocar I would like to play			Secretario/a – secretary	no vale mucho				
				Jefe/a - boss	It's not very worthwhile				

Computing

 <u>What is the World Wide Web?</u> The internet is a global network of computers. The World Wide Web is the part of the internet that can be accessed through websites. Websites consist of webpages which allow you to see information. Websites are accessed using a web browser. A browser is a program designed to display the information held on a website. Every website has an address at which it can be found, a bit like a house address. 	Using HTML to create websitesAll web pages on the internet are created using a language called Hypertext Markup Language (HTML). HTML describes:• what information appears on a webpage• how it appears on the page (formatting)• any links to other pages or sitesHTML can be written in specialist software, or in a simple text editor like Notepad++. As long as the document is saved with the file extension '.html' it can be opened and viewed as a webpage from a browser.This example HTML code displays a message on a webpage: <html></html>	CSS (Cascading Style Sheets) HTML defines the structure and content of your web page CSS defines the style and layout of web pages CSS can be used to change the style of a whole website, one web		
Considering your audience Define your audience clearly •For example, young or old! • What is the purpose of your website?	<body> <h1>Hello world</h1> This is my first webpage </body> The code uses tags to describe the appearance of the	page or a single occurrence of an element, e.g. <h1 style="text-
align:center"></h1>		
How will this affect your design?	 <html> - states that the document is a HTML</html> 	<u>Common web</u> Design Features		
Responsive Design Websites are viewed on different size screens. Webpages must automatically adjust to fit. To achieve this, set widths as percentages rather than pixels	document <body>- states what will appear in the body of thepage<h1>- formats the text to appear as a prominentheading- formats the text to start a new paragraph</h1></body>	 Basic colour palette and font selection Consistent pages Navigation bar 		

Religious Education



There are also examples when people have used religion to perpetrate great evil, one such example in the Holocaust. During WW2, a man called Adolf Hitler murder over six million Jewish people because he believed that they were not a god as other people, he blamed them for problems that were not their fault. Hitler believed that he was a Christian and that he was being guided by the Bible. There are many examples that we know of where a person's religion has guided them to do great good. One example of this was the Christian, William Wilberforce. Wilberforce was an abolitionist and Member of Parliament in 17th Century. At a time when most MPs were in favour of the slave trade, he stood up and spoke out, guided by the Christian principle that all people are equal and created by God.

People disagree on whether following a religion makes a person more likely to be moral than someone who doesn't. Some people believe that we need religion to guide our morals and ensure that society doesn't fall into chaos. Others believe that human beings are capable of making moral choices without the framework that religion offers.

Key Words:

Morals- An accepted way of behaving that most people agree on.

Immoral- When an action goes against agreed morals.

Religious teachings- Rules and principles that are set out in holy books.

Abolitionist-Somone who took action to end the slave trade.

Holocaust- An event during WW2 when millions of Jews and others were systematically murdered.

Transatlantic Slave Trade- In the mid 17th Century millions people from Africa had their freedom taken away and were forced into a life of slavery.

Situation Ethics- A way to decide on what is most moral by following the principle of love.

Sewa- In the Sikh religion Sewa means selfless service to others

Langar- Every Sikh temple (Gurdwara) has a kitchen, where free meal are given out daily. The langar is a symbol of equality.

Zakat- One of the five pillars of Islam. Zakat is giving a set amount of your income to charity each month.

Equality- The belief that all humans are equal, regardless of race, religion, gender, sexuality etc.

Design Technology

Characteristics of materials

• **Malleability** - being able to bend or shape easily would make a material easily malleable, eg sheet metal such as steel or silver is malleable and can be hammered into shape

• **Ductility** - materials that can be stretched are ductile, eg pulling copper into wire shows it is ductile

- Hardness the ability to withstand impact without damage
- **Durability** the ability of a material to withstand wear or damage
- **Toughness** the ability of a material to absorb shock without breaking
- Elasticity the ability of a material to bend without cracking
- **Tensile strength** the ability of a material to withstand a pulling force without stretching
- **Compressive strength** the ability of a material to withstand a pushing force without being squashed

Types of materials.

Metals

Most metals are strong, hard and shiny materials that can be hammered into different shapes without breaking. They are good conductors of heat and electricity and some are magnetic. Their properties make them useful for objects such as cutlery, saucepans, cars and coins.

Plastics

Plastics are materials made from chemicals and are not found in nature. They are strong and waterproof. They can be made into any shape by applying heat. Plastics are not magnetic. They are good insulators and don't conduct heat or electricity. They're used to make things like bags, bottles and toys.

Wood

Wood comes from trees. It is strong, flexible and long-lasting. It is an insulator of heat and electricity. It's used to make things such as furniture.

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Design Technology - Tools

Coping saws:

are used for cutting a range of woods and are very useful for cutting unusual shapes or curves. In a modern workshop these shapes are normally cut using machine fretsaws. However, there are times when these machines are not available. Also, using a coping saw is a test of skill as it can be difficult to control and requires practice. The Tenon saw:

is quite heavy; this weight of the saw as well as the forward cutting motion enables the saw to cut relatively easily. The Tenon saw is a type of back saw this is because it has a steel or brass back to the saw. The tenon saw is generally used for cutting mortise and tenon joints. The tenon saw is good at cutting straight lines in wood.





A Pillar drill:

is a fixed drill that is mounted or fixed to a floor so it cannot be pushed over. It can drill larger pieces of material quickly and easily. It is made up of a base, a pillar, a table and a drill head. The drill table can be adjusted vertically and is moved up and down depending on the what you are drilling. A pillar drill can only drill down at 90 degrees unlike a hand drill, however it is very stable and is relatively safe as you can clamp your work to the table.



Design Technology - Tools

The wood workers try-square:

is used for marking straight lines on wood. The try-square is pushed against a straight edge of wood and a marking knife or pencil is used to cut a straight line across the wood. The try square has a brass face plate which is added to its stock. The metal section attached to the stock or handle is called the blade



Steel rules:

are more accurate than plastic rulers. Steel rules measurements start at the beginning of the rule unlike plastic rulers whose measurements start around half a centimetre from the beginning.

A chisel:

is used to remove wood by carving it. A chisel has a shaped cutting end made of metal and a wooden handle. The chisel is pushed into the wood using a mallet to gain force. Chisels are named by the shape of the chisel the main types are bevel, firmer and paring.





AO1 Develop ideas through investigations, demonstrating critical understanding of sources.	AO2 Refine work by exploring ideas, selecting and experimenting with appropriate media, materials, techniques and processes.	AO3 Record ideas, observations and insights relevant to intentions as work progresses.	AO4 Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language.			
25% of your project mark	25% of your project mark	25% of your project mark	25% of your project mark			
Theme exploration. Mindmaps / Collected images. Facts & statistics. Interviews. Artist research & analysis. Art movements & time periods. Trips, museums & galleries.	Experimenting with different materials. Improvements. Testing ideas. Contact sheets with selections. Repeating ideas in materials. Developed ideas.	Observational drawings. Photography. Annotations. Ideas. Planning for tests or photoshoots. Thumbnail sketches.	Final outcomes. Final design plan explaining links to prior learning. Meaningful connections within the work.			

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Tone is the darkness or lightness of an object.

Lighter tones are used to indicate the light source, 2 mind cy or where the light reflects off of, and/or shines on an object.

Darker tones are used to indicate the lack of light.

Highlight - Where light directly hits the object it is the lightest part.

Midtone - A medium tone, one that is neither very dark nor very light.

Shadow - Is the dark side on an object not facing the light.

Continuous line drawing – Drawing without taking your pen or pencil off the page.

Shading pencils – get darker the higher the number B. To create lighter tones – lessen the pressure applied on your pencil. To create darker tones add pressure to your pencil.

								Pe	encil	Grad	les								
9H	8H	7H	6H	5H	4H	ЗН	2H	н	F	НВ	B	2B	3B	4B	5B	6B	7B	8B	9B
Hard	←																		► Soft

In school we use HB, 2B, 4B and **6B** pencils

To create darker areas, start with a mid-tone and build it up in smooth layers.

The parts of the object on which the light is strongest are called highlights and the darker areas are called shadows.

Tone can be used for a range of effects:

- to create the illusion of form
- to create a particular atmosphere •
- to create contrast and focus attention
- to suggest depth and distance

Shadina

Shading is used to create different tones in a drawing. A range of different techniques can be used to build up tones.

Hatchina

Hatching involves building tone using lines. The thickness and number of lines and the distance between them creates the illusion of form. There are different types of hatchina:

Hatching uses parallel lines.

Crosshatching uses lines that cross at different angles to each other. Contour hatching uses curved lines that follow the form of a subject.



The grid drawing method is used to create realistic drawings based on an image such as a photo or magazine.

Lino in printmaking

The use of Lino to create art is attributed to German Expressionists such as Erich Heckel (1883-1944) and Gabriele Munter (1877-1962). Black-and-white linocuts appeared in the UK in 1912, with one of the first being by Artist Horace Brodzky.

Positive space – Areas where lino remains and will print. Negative space - Areas where lino will be removed and no colour will print. **Reduction print** – A multicolour print in which the separate colours are printed from the same lino piece at different stages. Monochrome - single colour



Features, textures and details are added through varying the use of the Lino cutting tool to produce different marks and patterns, in monochrome pieces, you can use directionality to define different sections.



Erich Heckel **Gabriele Munter** Picasso is known to have produced linocuts between 1939 - 1960s. Picasso was one of the first artists to use reduction **linocuts**, where a piece of lino is used multiple times in one print, being recut after each colour has been printed.

Lino can be used in many different ways, and before being used by artists, was used by commercial printers to create posters.

The development of color linocuts was influenced by Claude Flight (1881-1955) who taught linocut in London at the Grosvenor School of Modern Art between 1926 and 1930.



Horace Brodsky



John Ndevasia Muafangejo





Claude Fliaht





Steve Bennet



Deborah Klein



Anna Gawlikowska

- Pay attention Do not mess around and make sure you concentrate!
- Do not run with these tools. These are SHARP. Do not 'playfight'. 'throw' them or 'poke' people with them.
- Cut away from your hand! (and yourself!) Keep your free hand closer to your body.
- Keep your lino on the table, not on top of paper as it is more likely to slide.
- Move the lino NOT your body!
- Never use a defective cutting tool such as one with a broken handle or blade.
- Return each lino cutter to the rack when finished.
- Never leave cutting tools lying around.





Please ensure you have the one like is shown – a dipped nib like a scooper

Otherwise it will be harder to cut!!

Adigraph This a polymer version of lino much easier and smoother to cut into!

Roller and Ink Used to transfer your Design onto paper!

APRON Wear me as soon as the ink comes out!!!

A **Bench hook** can be used if you are struggling to keep the lino still!

Lino Cutting Health and Safety

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Performing Arts - Grease



Text related terminology



MUSIC – The Music Industry

- Full time
- Part Time
- Fixed Term
- Permanent
- Freelance

- Salary
- Instrument Technician
- Instrument Repairer
- Stage Manager
- Sound Engineer

- Live Performer
- Recording Artist
- Composer
- Songwriter
- Rehearsal
- Recording



ROYALTY BREAKDOWN



38





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