

Knowledge Organiser Year 7 – Spring Term 2



Name:

P&A group:

Knowledge Assessment: Friday 22nd March 2024 – Period 1

Vision Minsthorpe Community College: A place where everyone plays a part in strengthening our learning community through **motivation**, commitment and care.

Motivation • Commitment • Care



Minsthorpe Community College

Write



Look at the information carefully. Read it three times. It may help to **say** it as you read it.



Cover it with your hand or a piece of paper.





Check what you have written matches the information exactly. Have you got it correct? If so, tick your work to show it is correct.



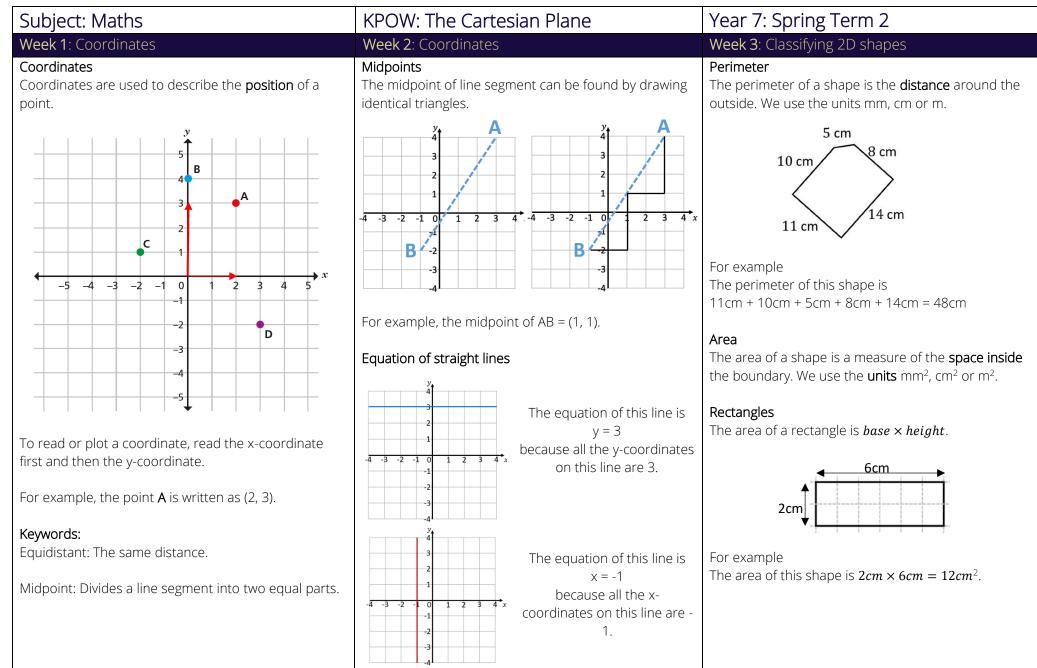
If it **doesn't match exactly,** use **a different coloured pen to correct it. Repeat.** When you get it 100% correct, move on to the **next** piece of information.





Subject: English	KPOW: How do writers create characters?	Year 7: Spring Term 2
Week 1 & Week 2: Lord of the Flies	Week 3 & Week 4: Lord of the Flies	Week 5: Reading, Speaking & Listening
Chapters 7 - 8	Chapters 9 - 12	Key Word Definitions:
The Tempest' extract, Protagonists and Antagonists	Key word Definitions:	Brutal: excessively cruel and harsh.
	Propaganda: information of a biased or misleading	Intimidate: to frighten someone, usually in order to
Key Word Definitions:	nature used to promote a political viewpoint.	make them do what you want.
Usurp: to take a position of power illegally or by force		Permeate: to spread throughout something.
Tension: a feeling of unease, stress, or strain.	typically one who has obtained control by force.	Zeitgeist: from German, literally 'the spirit of the age',
Tyrant: a cruel and oppressive ruler.	Vulnerable: exposed to the possibility of attack,	the defining mood of a certain historical period.
Context: the time period in which the text was written		Anomaly: the odd one out in a set of results;
Protagonist: the leading character in a play, novel, filr		something considered different to what is expected.
etc.	organisation are ranked according to their status and	Contentious : something likely to cause an argument, controversial.
Antagonist: the character in a text who causes	authority.	CONTROVERSIAL
problems for the protagonist.	Ostracised: to be excluded from a society or group.	Key skills: Debating
Key learning points:	Key skills: Reading and essay writing	 A debate is a structured discussion between two
CON/WM Golding fought in World War	Rey skills. Reduing and essay writing	people with opposing views.
Two and was horrified by the cruelty and	Write a sentence which answers the question.	 Both partners need to have a range of ideas and
violence he witnessed. He was shocked	CF Write a sentence which answers the question.	examples to back up their perspective.
that it was not only the enemy who were	Say who said the quotation and when.	 The discussion needs to be fairly balanced
cruel, but also the British soldiers. He		between partners.
came away believing that all people have	Include a quotation from the text.	 Both partners need to listen and respond to each
the capacity to be evil, in fact, it is only	Explain what it shows about a character & why.	other's views.
society that stops us from doing this.		Both partners need to speak clearly.
It is important to understand the context of a text so	Include terminology e.g. word classes.	Both partners need to speak in full sentences with
we understand what the writer may be trying to show	Zoom in on a key word.	effective vocabulary.
about society.		-
	WM What is the writer's message?	
Grammar:	Ŭ	
Subject: the subject of a sentence is the person or		
thing (noun or pronoun) which is doing the (action/		
process) verb.		
Object: the object of a sentence is the person or thin	-	
(noun or pronoun) which is having the verb done to i	t.	







Subject: Maths	KPOW: The Cartesian Plane	Year 7: Spring Term 2
Week 4: Transformations		Week 5: Transformations
Week 4. HanstonnationsKeywordsPerpendicular: Lines that meet at a right angle (90°).Compound shape: A shape made up of more than one geometric shape.ParallelogramsThe area of a parallelogram is base \times perpendicular height $\overbrace{base \times perpendicular height}$ $\overbrace{base \times perpendicular height}$ For example The area of this parallelogram is $5cm \times 9cm = 45cm^2$.Triangles The area of a triangle is	TranslationTranslations are movements in a direction. To translate a shape, you need a column vector. $\begin{pmatrix} x \\ y \end{pmatrix}$ A positive x value is a move of x spaces to the right. A negative x value is a move of x spaces to the left. A positive y value is a move of y spaces up. A negative y value is a move of y spaces down.For example, the translation of vector $\begin{pmatrix} -3 \\ 4 \end{pmatrix}$ shows a move of 3 to the left and 4 up from the corresponding vertices.Rotation To rotate a shape means to	Reflection We can reflect a shape in a mirror line. The points and their reflections will be equidistant from the mirror line. To reflect a shape, we need to know where the mirror line is. For example, triangle A has been reflected in the line y = 1. Mirror line
$\frac{base \times perpendicular \ height}{2}$ 9cm 3cm For example The area of this triangle is: $\frac{3cm \times 9cm}{2} = \frac{27cm}{2} = 13.5 \text{ cm}^{2}.$	turn a shape around a centre point. To carry out a rotation of a shape, we need a direction, degrees, and centre of rotation. For example, this S has been rotated 90° clockwise about the point (4, 6).	 Keywords: Isometry: Transformations that don't change the shape or size of an object. This creates congruent shapes. Enlargement: To change the size of a shape by multiplying by a scale factor. This creates similar shapes. To enlarge a shape, we need a scale factor and centre of enlargement.
		Motivation • Commitment • Care



Subject: Chemistry	KPOW: Neutralisation	Year 7: Spring Term 2	
Week 1: Metal oxides	Week 2: Reactions of metals	Week 5: Incomplete combustion	
 Keyword definitions Oxide – A substance formed when something reacts with oxygen. Oxidation – The process of a substance reacting with oxygen. Reactants – Substances that react together in a chemical reaction. Products – Substances that are produced (made) in a 	Reactions of metals with acids Metals react with acids to produce a salt and hydrogen. Metal + acid → salt + hydrogen Sodium + hydrochloric → sodium + hydrogen acid chloride Na H Cl H Cl H	 Keyword definitions: Incomplete combustion – Combustion that takes place with a limited supply of oxygen resulting in the formation of carbon monoxide and carbon. The equation for the incomplete combustion of a fuel is: Fuel + Oxygen → carbon monoxide + carbon + water 	
chemical reaction. Conservation of mass – Mass cannot be created or destroyed so the mass of reactants is always equal to the mass of the products. Examples of oxidation Magnesium + oxygen \rightarrow magnesium oxide. Copper + oxygen \rightarrow copper oxide.	Reactions of metal carbonates with acids Metal carbonates react with acids to produce a salt, water, and carbon dioxide. Metal + acid → salt + water + carbon carbonate dioxide Carbonate dioxide	When there is a lack of oxygen, carbon monoxide (CO) forms instead of carbon dioxide (CO ₂). If there is even less oxygen, this can lead to the formation of unburned carbon (soot) particles. Complete \rightarrow Incomplete \leftarrow	
 Week 3: Investigation planning – antacids Testing the effectiveness of antacids. Indigestion is caused by excess stomach acid. Antacid tablets neutralise this excess acid. Independent variable (the thing that is changed) - the brand of antacid used. Dependent variable (the thing that is measured) - the 	 Week 4: Complete combustion Keyword definitions: Combustion – The rapid reaction of a substance with oxygen, producing heat and light. There are three things needed for combustion to occur; a fuel, oxygen and heat. The equation for the combustion of a fuel is: 	The blue (roaring) flame on a Bunsen burner (left) is an example of complete combustion . The safety flame is an example of incomplete combustion (right) The products of incomplete combustion can be harmful.	
volume of acid needed to neutralise the antacid.	Fuel + Oxygen \rightarrow carbon dioxide + water	Product Harmful effect	
Control variables (what we keep the same) – the mass	You can test for these products using the experiment	Carbon monoxide Toxic	
of antacid used. Equipment needed – Balance – to weigh out a specific mass of antacid. Measuring cylinder – to measure a specific volume of acid.	below: Cobalt chloride paper turns from pink to blue if water is present. Limewater turns cloudy if carbon dioxide is present.	Carbon (soot)Respiratory problems Global dimmingRespiratory problems – Cause airways to become inflamed, restricting breathing.Global dimming – Carbon particles form a layer around the atmosphere, reducing the amount of sunlight passing through.	





Subject: Biology	KPOW: Biology	Year 7: Spring Term 2
Week 1: Muscular System	Week 2: The Lungs	Week 5: Review Lesson
Keyword definitionsLigaments – These link bones to bones.Tendons – These link bones to muscles.Muscles – They contract and expand to move bones.Antagonistic pairs – Muscles work in pairs, as one contracts the other relaxes.SicepsImage: SicepsImage: Siceps </td <td> Keyword definitions Breathing – The process of taking air into the lungs and then expelling it out of the lungs. Trachea – The tube that connects the mouth and lungs and allows gas to flow in and out of the body. Bronchi and Bronchioles – These carry the air to the small sacs in the lungs so that gas exchange can take place. </td> <td>Keyword definitions: breathing in the second secon</td>	 Keyword definitions Breathing – The process of taking air into the lungs and then expelling it out of the lungs. Trachea – The tube that connects the mouth and lungs and allows gas to flow in and out of the body. Bronchi and Bronchioles – These carry the air to the small sacs in the lungs so that gas exchange can take place. 	Keyword definitions: breathing in the second secon
Week 3: Exchange SurfacesKeyword definitionsDiffusion – Particles moving from an area of high concentration to an area of low concentration.Exchange surfaces - Where substances are swapped between the inside and outsides of an organism.	Week 4: Lung Disease Keyword definitions Nicotine – The addictive substance in a cigarette. Tar – A sticky brown substance that sticks to the surface of the lungs.	When we exhale , the rib muscles relax, the ribcage moves down and in, and the diaphragm relaxes and moves up.
Alveoli – Small air sacs where gas exchange takes place in the lungs. The lungs have lots of tiny alveoli that increase the surface area of the lungs. This allows oxygen to diffuse into the body and carbon dioxide to diffuse out of the body.	Healthy PersonSmokerArteries, including coronary arteryImage: Coronary image: Coronary 	Gue president of the volume of air your lungs can hold.





Subject: French	KPOW: Descriptions Writing		Year 7: Spring Term 2	
Week 1: Verbs for describing people	Week 2: Masculine and fer	minine adjectives	Week 3: Language for talking	about relationships
Je suis [l am]	beau [beautiful]	belle [beautiful]	Dans ma famille, j'ai	
Je ne suis pas [l am not]	fort [strong]	forte [strong] grande [tall]	[in my family, I have]	
Il est [He is]	petit [small/short]	petite small/short]	Dans ma famille il y a <u>quatre</u> per	sonnes:
Elle est [She is]	musclé [muscular]	musclée [muscular] active [active]	[In my family there are 4 people:]
Mon frère est [My brother is]	sportif [sportive]	sportive [sportive]	Je m'entends bien avec	
Ma sœur est [My sister is]	méchant [nasty/mean] ennuyeux [boring]	méchante [nasty/mean] ennuyeuse [boring]	[I get along well with]	
Ma mère est [My mother is]	généreux [generous]	généreuse [generous]	Je m'entends mal avec	
Mon père est [My father is]	marrant [funny] rigolo [funny]	marrante [funny] rigolote [funny]	[l get along badly with] J'aime [l like]	J'adore [I love]
Quand j'étais petit(e), j'étais [When I was young I was]	sympa [nice]	sympa [nice]	Je n'aime pas [I don't like]	Je déteste [l hate]
est [is]	têtu [stubborn]	têtue [stubborn]	car [because]	parce que [because]
	timide [shy] honnête [honest]	timide [shy] honnête [honest]	et [and]	aussi [also]
Week 4: Family members	Week 5: Time phrases & ir		cependant [however]	mais [but]
mon père [my father]	je suis quelquefois [l am som			
mon grand-père [my grandad]	il est quelquefois [he is some			
mon beau-père [my step-dad]	elle est quelquefois [she is so			
mon oncle [my uncle]		-		
mon petit frère [my little brother] mon grand frère [my big brother]	je ne suis pas [l am not]			
mon demi-frère [my half brother]	il n'est pas [he is not]			
mon cousin [my cousin]	elle n'est pas [she is not]			
ma mère [my mother]				
ma grand mère [my grandma] ma belle mère [my step-mother]	je ne suis jamais [l am never]]		
ma belle mere [my step-mother] ma tante [my aunt]	il n'est jamais [he is never]			
ma petite sœur [my little sister]	elle n'est jamais [she is never]			
ma grande sœur [my big sister]	très [very]	trop [too]		
ma demi sœur [my half sister]	assez [quite]	un peu [a bit]		
ma cousine [my cousin]				





Subject: Geography		KPOW: World of Work	Year 7: Spring Term 2		
Week 1& 2: Glaciers Erosion and Deposition		Week 3&4: Changing employment	Week 5: How do we spend our free time?		
The World of V The types of jo over time. In t while women People often r ives. Today things a n a huge varie	·	The UK's employment structure has changed over time. Some sectors have massively decreased, like the primary sector, and some have increased, such as the tertiary sector. One type of employment that has massively grown in the tertiary sector is tourism . Tourism accounts for 10% of the UK's wealth. There are many advantages to tourism, such as providing employment opportunities, but there are also many	Striking a healthy work / life balance is important. This is the amount of time you spend doing your job (or schoolwork) compared with the amount of time you spend with your family and doing other things that you enjoy.		
Primary Sector	People work with or get raw materials from the land or sea. E.g., Farmers, miners, forestry workers.	disadvantages, such as, work is often only available seasonally. This means you are only employed for some of	promotion family time		
Secondary Sector	People make things out of raw materials- this is also known as manufacturing. E.g., clothes making, baking and car manufacturing.	the year. Week 4: Communications and Transport	Adult work/life balance		
Tertiary Sector Quaternary Sector	People provide a service for others. E.g., Doctors, cleaners, teachers, and shop assistants. People are highly qualified and use their knowledge to research and invent things.	Communications are the transfer of information. They have changed over time and today almost all communications are sent electronically with the help of modern technologies, such as submarine communication cables and satellites.	Leisure means the use of time when you are not working. The UK offers a range of outdoor leisure activities. Leisure and recreation outdoors bring both advantages and disadvantages for the places people visit.		
		Transport has also changed over time from the traditional horse drawn stagecoaches to the modern high-speed railways and smart motorways of today. One improvement in transport infrastructure has been the bypass. A bypass is a road that goes around a town or village so that traffic, which is passing that town, does not have to go through the town centre.	Advantages include local people may be employed as shop assistants or guides. Disadvantages include attractions becoming overcrowded. These are called <i>honeypot sites</i> – attracting people like bees to a honeypot!		





Subject: History	(POW: Did life change under Norman rule?	Year 7: Spring Term 2
Week 1: Thomas Becket	Week 2: Murder in the Cathedral	Week 5: Black Death and Peasants' Revolt
 Early Life: Thomas Becket was born in London in the early 12th century to a middle-class family. He had a good education in London and Paris. He worked for Theobald of Bec, the Archbishop of Canterbury. Role as Archbishop: After Theobald died, Thomas became Archbishop of Canterbury, but his relationsh with King Henry II began to deteriorate. Thomas pushed for laws which made the Church independent from the monarchy. Constitution of Clarendon and Exile: Henry passed a new set of rules (16) called the Constitution of Clarendon. This gave him absolute power and said th Church was not independent of his rule. Thomas refused to accept this. Realising he may be in danger he fled to France. After a 6-year stand-off, Thomas returned on the condition he kept his power. 	 Thomas were in the Cathedral. What: They murdered him, all taking a turn to strike him with their sword. Why: They were acting after hearing Henry say: "Who will rid me of this troublesome priest?" Key term: Debate - This means to argue (using evidence) over a particular issue 	The Black Death arrived in Britain in June 1348. The Bubonic Plague caused swelling in the armpits and groin, fever and vomiting- 50% died. The Pneumonic Plague caused fever, cough, headaches and breathlessness – 100% died. People blamed the plague on miasma (bad smells), being poisoned, God punishing them and the planets. To cure the plague people prayed, punished themselves or drilled holes in people's heads to let out bad spirits. Short Term Consequences: Between 2-3 million died. The people left moved around looking for better wages and jobs. Long Term Consequences: The King passed the Statute of Labourers 1351, which meant workers could not demand wages higher than before the Black
Week 3: Magna Carta	Week 4: The Baron's Revolt	Death. This angered the peasants. Peasants' Revolt
 In 1214, the barons rebelled against King John because they felt he was ruling unfairly. They presented him with a list of demands, known as the Magna Carta, meaning Great Charter. King John signed the Magna Carta in 1215. It was a se of rules that the King had to obey and included: The Church shall be free to pick its own bishops and Archbishops. No freeman can be imprisoned without a fair trial. London cannot be forced to pay higher taxes then other parts of the county. 	Montfort became the ruler of England. However, he soon lost support from the barons. Simon invited commoners from towns that were friendly to him to sit on the Great Council – this was the first-time ordinary people, other than the barons had been invited to give advice at the Great Council . This is often seen as the beginning of the House of Commons in our parliament, so	 When: 1381 Where: Essex, Kent, London (Mile End and Smithfield). Who: Peasants rebelled against King Richard II. Why: Poll Tax, work service and Statute of Labourers. What: The peasants demanded the King made changes. John Ball preached about the end of the Feudal System and criticised the Church. After a rampage through London the King met the peasants at Smithfield. Wat Tyler, the peasant's leader was killed. Short Term Consequences: King Richard II promised the peasants a royal pardon only to go back on his promise. Many of the leaders were killed. However, the Poll Tax ended which was a success. Long Term Consequences: Peasants gained more
This was the first time an English king had been expected to obey rules.	Simon de Montfort has become known as the 'Father of Parliament'.	freedom. The revolt served as a reminder to future Kings of what the peasants could do.





Subject: DT - Food	KPOW: Healthy Eating	Year 7: Spring Term 2
Week 1 & Week 2	Week 3 & Week 4	Week 5
Practical planning	Practical planning	Year 7- revision for test
You will plan to make FRUIT CRUMBLE, this will showcase you using an oven as well as following a plan of making, using time management, and following health and safety rules.	Sensory analysis What are our senses?	HEALTH AND SAFETY RULES OF THE KITCHEN • HAIR TIED UP • APRON ON • HANDS WASHED WITH HOT SOAPY WATER TO KILL GERMS • SIDES WIPED DOWN • PLAN, INGREDIENTS AND EQUIPMENT OUT AND READY TO USE HAZARDS AND PREVENTION
Simple method	Sight Smell Taste Hear Touch	A HAZARD IS SOMETHING THAT COULD CAUSE ILLNESS OR INJURY Nutrient Function- what it does for Where do we get it from?
 Peel, core and chop apples. Add the peeled and chopped fruit to base of baking dish and sprinkle with sugar. In a bowl add flour, sugar and butter and use rubbing in method to combine into breadcrumb texture. Cover fruit with crumble topping and sprinkle with a handful of sugar. Place in a pre-heated oven for 20 minutes or until golden brown. 	 Food can be described in many ways What you think is tasty other people may not share the same view There are certain words we DON'T ALLOW to use 	Instruction US? CARBOHYDRATE FAST RELEASE- SUGARS SLOW RELEASE- STARCHES GIVES US ENERGY STARCHES- CEREAL, POTATOES, PASTA, RICE SUGARS- WHITE SUGAR, SWEETS, HONEY FAT SATURATED- BAD UNSATURATED- GOOD KEEPS US WARM AND INSULATED PROCESSED MEAT- MEATBALLS, BURGERS, FRIED FOOD-CHIPS, JUNK FOOD- BISCUITS, CAKES AVOCADO, COCONUT, PLANT OILS, OLIVES, NUTS VITAMINS AND MINERALS PREVENT ILLNESS ANY FRUIT, VEGETABLE OR SALAD ITEM PROTEIN HELPS BODIES TO GROW AND REPAIR LEAN MEAT- CHICKEN, STEAK, SUINK FOOD- BISCUITS, CAKES ANY GROWN PASTA IE WHOLEWHEAT ITEMS- CEREALS SUCH AS WEETABIX, BRAN FLAKES
	 like- nice, ok, awful, gorgeous etc as these are opinion words and not giving any description When describing you need to think about using words for- shape, colour, feel, look, smell etc Some words may crossover and work for 2 categories for example a cake could taste and smell sweet 	SEASON FOOD THAT GROWS SPRING PEAS, CARROTS, STRAWBERRY SUMMER LETTUCE, AUBERGINE, CUCUMBER, BLUBERRIES AUTUMN PUMPKIN, APPLES, MUSHROOMS, PEARS, POTATO, BEETROOT WINTER SPROUTS, PARSNIPS, CLEMENTINE, BROCCOLI, CAULIFLOWER FOOD PROVENANCE IS WHERE YOUR FOOD COMES FROM, IT'S IMPORTANT TO BUY AND EAT LOCALLY GROWN FOOD TO HELP THE LOCAL COMMUNITY TO PLOUGH MONEY BACK INTO FARMING Spellings Test: Fibre Carbohydrate Vitamin Sensory Delicious Appealing Safety Guide



Evaluation

Product

Hazard



Subject: DT – Product Design	KPOW: Design & Workshop	Year 7: Spring Term 2
Week 1 & Week 2	Week 3 & Week 4	Week 5
Workshop skills used to shape the body of the wooden children's toy: Cutting – Use of tenon saw for cutting straight lines	Laser cutter – CAM Precise cutting of the additional pieces and wheels. Wood tools – Bench hook, G clamp, bench vice,	Techsoft 2D Design – CAD software that is used to create designs which will be cut using a laser cutter. CAD – Computer aided design CAM – Computer aided manufacture
and coping saw for cutting curved lines. Scroll saw – complex cuts. Workshop machinery so goggles are required. Pillar drill – drilling holes for wheels and decoration. Different sized drill bits. To finish a product, you need to use sandpaper, a rasp (similar to a file, but has large teeth like a cheese grater) and/or a file in order to remove waste material and smooth the timber.	 machine vice, pencil, metal rule, tri square, tenon saw, coping saw, file. Wood working machines – Scroll saw, pillar drill, bobbin sander, band facer. Mechanisms – A system of parts working together in a machine. Levers, linkages, cams, gears, and pulleys. Motion Rotating - in a circular path around a fixed point 	Draw a Line tool Draw a Line tool Draw a curvy line tool Draw a curvy circle' tool Draw a Shape tool Draw a Shape tool Delete tool options Google SketchUp – CAD
 Wood joining methods – Nails/pins, screws, nuts and bolts, adhesives (glues), knock down fixtures, wood joints. Wood working tools – Hammer, pincers, screwdriver, spanner, pliers, wooden mallet, chisel. Wood finishes – Varnish, paint, stain, wax, polish, oil, decoupage, laser engraving. 	 Linear - in a straight line in one direction Reciprocating - repetitive movement left to right, up and down Oscillating - Swinging movement to and fro, from a fixed point. 	software that is used to create 3D designs which can be 3D printed. Ultimaker 2 3D Printer – Builds up the structure of the design using tiny layers of PLA (Polylactic acid) which is a thermoplastic (able to be reheated and reshaped) derived from renewable, organic sources such as corn starch or sugar cane.
		Spellings Test:CreativeTemplateDesignMachineColourSafetyFoldingScoringMaterialKnowledgeHazard



Analysis

Rendering

Planning



Subjec	t: DT - Textiles		KPOW: Design & Make a Cushion Cover	Year 7: Sp	ring Term 2	2
Week 1 &	& Week 2		Week 3 & Week 4	Week 5		
sewing m Key Word Reviewing Sewing m important • Follow mach • Threa needl split in • The s botto • You m befor • When must	- produce the Applique achine : ACCURACY - quality of the technique conside achines – Threading up the arrows embose ine to thread the top is d through the eye (the e from front to back the n the presser foot. pool (or bobbin) holds t m of the sewing machin hust always have the pr e you sew. you take your sewing of leave the thread long s ead when you sew agai	being true or correct. pring Success and EBI. correctly is very sed (printed on) the essential. small hole) of the en pull through the the thread for the ne. esser foot DOWN off the machine you o that it doesn't	Week 3 & Week 4Week 5Practical - Sewing all 4 sections together. Key Word: ALLOWANCE - Seam Allowance which is 1.5cm, an allowance is amount of something that is permitted, especially within a set of regulations.Practical - Sewing the front and two back se together to create the cushion cover.Seam Allowance (SA) - this is set at 1.5cm, it is the distance from the fabric edge to the line where you sew. The purpose of a SA is so that the stitch is more durable because there is a section of fabric between it and the edge, making it stronger.• Have an even + (cross) where the four q the front have been joined.Not sewing on the SA - means the seam (stitching joining two pieces of fabric) comes apart when put it under pressure as the fabric may fray and is not strong enough.• The two back pieces will be even sizes w opening in the centre of the back.Practical - Hemming the two back pieces for cushion. Key Word: HEM - a hem in sewing is a finishing method. The edge of the fabric is folded over twice and sewn to prevent fraying and to finish it neatly.• Week 5A successful hem is:Design challenge - BIOMIMICRY - imitating n		n cover. hion cover will: here the four quarters of ed. It pieces will be neatly be even sizes with the the back. hed the right way out the edges will be straight and owance line. is turned inside out the ve no loose threads	
Theory: I	nformation for poster a	nd presentation	1. Folded evenly so it is the same width all the way across.	2		that minimizes screen
-	: COLLABORATIVE - wo	•	2. The stitching is right on the edge of the folded-up	glare.	5	
together o	together on a project		edge and is straight and even. 3. The stitch used is a straight stitch (length 2, Width 0		1	
Type & Category	FIBRES Properties	Common Products	setting on the sewing machine).			
Category Cotton (plant-natural)	Absorbent, creases easily, soft	Dresses, jeans, t-shirts				Caller Providence
(animal – natural)	Warm to wear (insulates)	Jumpers, scarves, gloves				
Silk (animal – natural)	Shiny, drapes well (means hangs nicely), strong, expensive	Nightwear, underwear, wedding and bridesmaid dresses, ties		Spellings Test:		Decian
Polyester (manmade – synthetic)	Doesn't crease, strong and hardwearing, easy to wash	Office work wear, ties, bags		Textiles Sew	Applique Stitch	Design Machine
Elastane (manmade - synthetic)	Lightweight, usually mixed with other fibres to make fabric stretchy and comfortable to wear	Sportswear, gym wear, swimwear, leggings		Batik Sketch	Thread Tjanting	Colour Seam allowance
Viscose (manmade – regenerated)	Soft, drapes well, smooth, inexpensive	Clothing, scarves		Scissors	Dimension	Stencilling





Subject: Core PE	KPOW: Bones & Muscles	Year 7: Spring Term 2
Week 1 & Week 2: Metatarsals	Week 3 & Week 4: Biceps	Week 5 & Week 6: Triceps
	Located in the front of the upper arm.	
Located between the tarsals (ankle) and phalanges (toes).	The bicep (bi) has 2 heads – Long & short head	
Bone type – Long (longer than it is wide)	The bicep allows flexion at the elbow (flexion = decreasing the angle at a joint).	Located in the back of the upper arm. The triceps (tri) has 3 heads (long, short & medial
Metatarsals give the foot its arch and allow movement in the foot.	The distal attachment of the bicep in located on the radius (upper lower arm).	head).
When a rugby player is running, the metatarsals shares the load of the body and move position to cope with an uneven ground.	When performing a bicep curl, the bicep contracts resulting in flexion of the arm (at the elbow).	The triceps allow extension at the elbow (extension = increasing the angle at joint).
There are 5 metatarsal bones 1-5 Number 1 goes to the big toe and number 5 to the little toe.		EXTENSION
		When the triceps contracts, they straighten the arm. When performing a bicep curl the triceps contract during the downward phase.





Subject: Computing & Digital Media	KPOW: Number Systems	Year 7: Spring Term 2
Week 1 & Week 2	Week 3 & Week 4	Week 5:
Denary or decimal is our standard number system, it allows humans to count. It is a base 10 system with 10 digits (0,1,2,3,4,5,6,7,8,9). Binary is a base 2 number system and is the language of computers.	Keywords: Algorithm: An algorithm is a process to solve a problem using a fixed number of steps. Decision: The action or process of deciding something.	Keywords: Sequence: A set of events, movements or items that follow each other in a particular order.
Placeholders: 8-bit structure 128 64 32 16 8 4 2 1	We use algorithms so the computer understands	Basic flow chart Flow chart showing when a
128 64 32 16 8 4 2 1 Converting denary into binary: 198 = 11000110 (128+64+0+0+0+4+2+0). 128 64 32 16 8 4 2 1 1 1 0 0 1 1 0	how to do something. The computer needs to be given a list of instructions so it can follow them. We call this a sequence . A flow chart shows the sequence of an algorithm in a graphical way. Here are some of the symbols we use to make a flowchart.	showing a sequence of instructions. START Take out 2 slices decision is made. Start Order burger Ves Order fries
Converting binary into denary:Add the placeholder numbers together when you see a 1. $01010001 = 81 (0+64+0+16+0+0+1).$ 128643216842101 </td <td>Shape & Function A rectangle represents a start or end point. An arrow is a connector that shows the direction of information through the finor chart A parallelogram represents an input or output. A rectangle represents a process. A diamond is used to show a decision that needs to be made.</td> <td>of bread Spread the butter on bread Open the Jam Jar Spread the jam</td>	Shape & Function A rectangle represents a start or end point. An arrow is a connector that shows the direction of information through the finor chart A parallelogram represents an input or output. A rectangle represents a process. A diamond is used to show a decision that needs to be made.	of bread Spread the butter on bread Open the Jam Jar Spread the jam
required: Rule One: $0 + 0 = 0$ Rule Two: $1 + 0 = 1$ Rue Three: $1 + 1 = 10$ (binary for 2)	Name Terminator Start/End Connector Input/output Process Decision	on bread Cut the sandwich into 2 pieces
Rule Four: 1 + 1 + 1 = 11 (binary for 3) 01010011 01110110	symbol I I I I I I I I I I I I I I I I I I I	Eat the sandwich END





Subject: Music	KPOW: Whole Class Ensemble: Shotgun	Year 7: Spring Term 2
Week 1 & Week 2: Intro to Ensemble	Week 3 & Week 4: Selecting an Instrument	Week 5: Performance
 Ensemble: A group of instrumentalists/ singers playing music together. E.g. a band/ orchestra. Ukulele: The ukulele belongs to the string family of instruments and has 4 strings: G, C, E and A. 	Glockenspiel: The Glockenspiel belongs to the percussion family of instruments. It is a tuned percussion instrument meaning that each bar has a different note. The glockenspiel is like a xylophone, except it has metal bars instead of wooden ones.	Instrumentalists: The following are the correct terms for someone who plays a particular instrument. Pianist: Piano Drummer: Drums Flautist: Flute Guitarist: Guitar
Shotgun: Shotgun is a song by British Musician George Ezra, released in 2018. The song reached number 1 in the UK singles charts.	Vocals: When the voice is used to create music. The voice is also considered to be a musical instrument.	Composer: Someone who writes music, a songwriter. E.g., the composer of the song Shotgun is George Ezra. The music in the background of films is also written by a composer e.g., the theme to Star Wars was written (composed) by John Williams.
	Vocal Warm Up: An exercise performed by vocalists to ensure that their voices are prepared for performance.	Session Musician: A musician who is hired to perform backing music either as part of a live performance or for a recording.
		Motivation • Commitment • Care



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Subject: Art	KPOW: Final Outcome- Design	Year 7: Spring Term 2		
Week 1 & Week 2:	Week 3 & Week 4:	Week 5:		
Hundertwasser – Artist Page development	Landscapes	Development of personal outcome		
Hundertwasser (1958-2000) was a painter, architect, ecological activist, and philosopher.	Natural – Made naturally. Fields, hills, animals and vegetation such as trees.	Personal outcomes use the skills you have developed along with the artist's influence . Our outcome shows our response to the work of others.		
He was born in Vienna, Austria.	Manmade - Made by man. Buildings, roads power supplies and waste.	Your outcome will consider		
He believed human architecture should be in harmony with nature. He also believed there were far too many straight lines surrounding us. Hundertwasser is known for colourful, organic, irregular forms.	 Architecture – The art or practice of designing and constructing buildings. Perspective – The representation of 3D objects in a 2D outcome. Perspective creates depth. 	Colour theory – your outcome will demonstrate understanding of colour mixing. Your outcome will include materials such as: Watercolour Paint – Solid pigments that become fluid with added water.		
Hundertwasser prefers intense, radiant colours and loved to place complimentary colours next to each other to emphasise shapes, patterns and details.	Scale – How big or small something is in relation to us.	Paintbrush – Different thicknesses and materials such as synthetic and natural bristles.		





Subject: Drama	KPOW: Monologue	Year 7: Spring Term 2 Week 5:	
Week 1 & Week 2	Week 3 & Week 4		
Introduction to WW2 and Anne Franks' Diary	Creating a Monologue	Performance	
Conflict- An active disagreement between people with opposing opinions or principles.	Monologue – a <i>monologue</i> is a speech presented by a single character, most often to express their thoughts aloud, and directly address the audience. An actor	Direct Address – breaking the fourth wall and speaking to the audience.	
The Guernica - 1937 – is an oil painting by Pablo Picasso. The painting symbolises the tragedies of war.	may find a focal point when delivering their monologue.	Vocal Projection – voice projection is the ability to use your voice loudly, powerfully, and clearly while acting.	
	Emphasis – to state or show that something is especially important or deserves special attention.	Articulation - is having clear vocal expression. You articulate sounds with your lips, teeth, tongue, and use your mouth to vary those sounds.	
World War Two 1939- 1945'	Dramatic Pause – is when a pause happens during dialogue to create tension.	Top Tip! Find a focal point when delivering your monologue	
Anne Frank– was a Jewish girl born 2 nd June 1929, she wrote a famous Diary about how her family were in hiding during WW2. She named her diary 'Kitty'. Otto Frank – Born 12 th May 1889. Anne Frank's Father; he was a German	Anne Frank Called her Diary Kitty"		
businessman and the only member of the Frank Family to survive the holocaust. Freeze Frame – A freeze-frame is a is achieved by freezing the action on stage usually at a key moment to create tension.	Skills and techniques: > Vocal Expression > Audience Awareness > Body Language > Levels	Peer Feedback – enables the performer to improve their work, based on feedback of strength and weaknesses.	





Subject: Lea	arning 4 Life			Year 7:	Spring Term 2
Week 1 & Wee	ek 2: Key Words	Week 3 & W	eek 4: James Dyson	Week 5: (Careers
Key Words Please continue to learn the following 5 words:		Careers at Minsthorpe; Please learn these facts about Careers at Minsthorpe;		Hany El Bana – an example of determination Please learn the information below;	
Work Experience	A short-term period of employment.		Mr Dowey He is the careers lead in College.		Hany El Bana was born in Cairo, 1950. He trained as a doctor and moved to
Further Education	Education below degree level for people above school age.		His office is in the Post 16 block. His email is tdowey@minsthorpe.cc		the UK. He was so successful that he won prizes for his work with cancer patients.
Higher Education	Education at university or a similar education establishment.		Morrisby The online careers platform used in		In 1983, there was a famine in Ethiopia & Sudan, Hany flew to East Africa to
A levels	A UK subject-based qualification for students aged 16 and over.		College. It is found on the student sharepoint.		help. When he got there, he went to talk to those affected by the famine.
Apprenticeship	When you learn a trade, 20% of the time is theory, 80% is practical training.	Morrisby			When he got home, he was telling hisfamily about his experience and his
Determination	To have a goal and do all you can to achieve it.		your likes/dislikes. It suggests careers which match the answers you give.	(((27))) (NO)	nephew gave him 20p he had been saving, saying: 'I don't need chocolate'.
Routes to a futu Further Edu	16 Provide Apprenticeships	Mr Dowey & I Your route for the next 4 years	Morrisby will support you through this; Year 11 GCSE exams	Please Give cenerously	 This gave Hany an idea. He began standing outside mosques, first in Birmingham, then in other towns and cities, with a collection bucket. Within a few months he had raised over £5,000. This was the start of Islamic Relief as
• A Leve • T leve • BTE(• Vocatio	els 80% practical C 20% theory	Year 9	Option choices	Hany El Ban	we know it today. It started off with a 20p donation and in 2021 it raised over £149 million.

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problem solving skills.

Home Learning Schedule

Day	Subject to Learn
Monday	English and Learning 4 Life
Tuesday	Maths and Computing & Digital Media
Wednesday	Science
Thursday	French, History and Geography
Friday	Design Technology, PE & Creative

Home Learning is set every **Monday** and will be submitted in **P&A Time** every **Monday**.

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