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Idea

Plant Cell

Make some flash cards or PowerPoint slides. Make top trumps.





Make a poster.



Draw spider diagrams, or for the adventurous mind maps.

Write a song or a rap.

Write a story or comic



Plan a lesson

Explanation

Write down key words, auotation, auestions or equations on one side of a card. On the other side, write the definition or answer. Use them to test yourself.

Turn your notes into posters with lots of colour and illustrations. Summarising the key information in a different way is an effective way of learning and your brain will remember the colours more easily. Do the title last!

Write the topic/keyword in the centre of your page. Add everything you know in subtopics. Then explore each subtopic in turn adding more ideas. Colour/pictures help you recall.

Are there songs that stick your head. Change the lyrics to the information you want to learn. If you record and listen back it will be a more fun way of revising.

If you teach something to someone else the chance of recalling it is really high. This has been found to be the most effective way of learning something for the long term.

Take the keywords or facts that you need to learn and turn them into a story or a cartoon. The sillier the story the more likely you are to remember it.

Playing is how we learn as young children and it is a very powerful way of learning throughout life. If we enjoy the game it helps us remember.

Just reading through your books or a knowledge organiser is not always an effective way to revise. Instead, you should do something with the information. Choose an example of the revision methods on the pages or see if you can come up with another method.

Subject	Page Number	Subject	Page Number
Multidisciplinary Lesson	3	Geography	30
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Computer Science	29	A range of bonus ideas to prevent boredom	54

Write a quiz. Design a game.

strip.



or codemy Multi-disciplinary learning. Key Stage 3.

What is a conspiracy theory?

Some people believe in things that other people do not. Here are a couple of examples for which there is little evidence.



However, some people then believe that other people are covering it all up. This can lead to some surprising places.

Activity 1: If there was Bigfoot or a Plesiosaur as shown above then how difficult would it be to keep it a secret? Look up how big Lock Ness is and how many people visit it every year.

Activity 2: Think about these questions / discuss them in a video chat with friends: What happens to you when you believe that the entire sections of society are keeping secrets? How could all scientists or the entire government keep a secret? How difficult would it be for 1000s of people to keep a secret? Why do film makers like conspiracy theories for their movies? Activity 3: Listen to this radio programme. It is available on BBC Sounds. <u>https://www.bbc.co.uk/sounds/play/m000dfqn</u>

How many conspiracy theories are mentioned? Which ones have you heard about?

Activity 4: Mr Ford once, for a joke spread the rumour that the canteen at his college was serving Weetabix that were so cheap, the box they came in had more nutritional value as at least it contained roughage in the cardboard box. he got into a lot of trouble and had to write an apology to be displayed at the college canteen till. Write a letter for Mr Ford, to try to explain that he now understands how serious disinformation can be, highlighting what might have gone wrong.

Activity 5: Craft a conspiracy theory about Mr Ford. Email him with it. How would you get people to believe it? How far could you stretch it? How could you stop it once people started believing it – even if it was you who made it up?

For those of you with access to Disney watch Lion Guard "Beware of the Zimwi" episode. How can belief cause panic?

Activity 6: Find out how anti-vaccination conspiracy theory has killed people.

https://www.iflscience.com/health-and-medicine/one-map-sumsdamage-caused-anti-vaccination-movement/

Activity 7: Challenge activity. Research one of the more popular myths and present a clear and referenced case to debunk it.

https://www.osce.org/odihr/441101?download=true

Year 7- perspective landscape

Overview:

Students learn about one and two point-perspective and how it can create the illusion of distance in Art work. You will draw a chequered table cloth surface using one point perspective and behind this will paint a Impressionist style landscape in the background using paint and oil pastel.



Artists' studied:

Andre Derain- He does bold colourful landscapes in the style of "Fauvism" which is a French word for wild beasts.

Key words:

Linear Perspective: A technique that uses a vanishing point to create the illusion of distance in pictures. Tone: Using a pencil to clearly show the direction of light so items appear 3D.

Blending: Smoothing out pencil lines to create a gradual tone Colour Wheel: Showing the relationship between colours Complimentary: Colour opposite one another on the colour wheel Primary: Red, Yellow, Blue – from which all other colours are made Secondary: Green, Purple, Orange-Colours made from mixing two primary colours

open occodemy

Materials / Techniques to be explored:

Perspective drawing, mixed media painting, Dot painting,

Ī	Methods of Recording				
	Observational drawing	Drawi	ng from looking	g at images or	objects
	First hand observation	Drawi in fror	ng directly fror nt of you	n looking at ol	ojects
	Second hand observation	Drawi	ng from looking	g at images of	objects
	Photographs	Using image	a camera or sm es will class as fi	artphone to re irst hand obse	ecord rvation
	Sketches	Basic : a start	sketches and d ting point for d	oodles can act evelopment	as
	Stages of Drawing Basic shapes Accurate sh	apes	Detail	Shade	
2					
	Tonal shade Produce a range of tones by vathe pressure and layering consulting softer pencils for darker	arying ider shades	Cross hatching	Hatching	Contour lines
	Alternative shade technic	lues	Stippling	Scribble	Pattern

Annotation

3

Describes writing notes, using images and explaining your thoughts to show the development of your work.

Step 1Describe What is this an image of? What have you done here? What was this stage of the project for?

Step 2Explain How was this work made? How did you produce particular effects? How did you decide on the composition?

Step 3Reflect

Why did you use these specific methods? Why do particular parts work better than others? Why might you do things differently next time?

Formal elements are taught e.g. how to sketch and use tone to create a 3D effect. You will explore the colour wheel and how to use the basic materials in Art.
 "The Greenman" – This project introduces you to facial proportions and how to blend oil pastels effectively. We also learn about clay and create small 3D Greenman faces. Examples of world renowned pieces of art are discussed.

3-"Perspective Landscapes"- This project introduces students to the concept of perspective and distance in Art. You learn about the technique of one-point perspective to create a feeling of depth in a landscape.

-	L	Media		The subst to make a	ance that an artist use art	2) Pencil	
		Materia	ls	The same	e as media but can also		Biro	
		-		eg, canva	s, paper, clay		Pastel (chalk/oil)	
		Techniq	ues	The meth art work,	od used to complete the can be generic such as		Coloured pencil	
				blending	or more focus such as		Acrylic paint	
		Processe	25	The meth artwork t	od used to create hat usually follows a		Watercolour	
				range of s one skill	steps rather than just		Gouache	
3	Color	ur Theory			ertial primary lertian		Pressprint	
	Prima RED, `	ary= YELLOW,	Complimen Colours oppo	tary; osite on the	Land Pittary Based		Monoprint	
	BLUE Secoi	ndary=	colour whee Harmoniou	l s; Colours	Primary primary	tertiary	Collograph	
	Tertia	arv=	wheel Monochror	natic:	secondary		Card construction	
	Secor ry	ndary+Prima	shades, ton of one colo	ies & tints ur	tertian secondary tertian		Wire	
	Shad black	es – add	Hue – the p	pigment			Clay	
	white	- add	Warm; RED YELLOW.	, ORANGE			Batik	
			PURPLE	SHEEN,			Silk painting	

8
3
8
8
3
2

The basic tool for drawing, can be used for linear

Drawings can be completed in biro and shaded

smoothly, chalk pastels give a lighter effect

Oil and chalk pastels can be used to blend colours

Coloured pencil can be layered to blend colours,

A solid or liquid paint that is to be used watered

watercolours or more thickly for an opaque effect

A polystyrene sheet that can be drawn into to print white lines – can be used as more than 1 layer

Where ink is transferred onto paper by drawing

A printing plate constructed of collaged materials

Sculptures created by building up layers of card or

Thick or thin wire manipulated to create 2d or 3d

A soft substance used for sculpting, when fired can

A fabric technique using hot wax to resist coloured

Fabric inks painted onto silk, Gutta can be used as

be glazed to create shiny colourful surfaces

an outliner to prevent colours mixing

A pure pigment paint that can be used like

A thick heavy paint that can be used smoothly or to

work or for shading

some are water soluble

create texture

down and layered

over a prepared surface

fitting together

forms

inks

using hatching or cross hatching

6

¹ Formal Elements of Art

LINE	the path left by a moving point, e.g. a pencil or a brush dipped in paint. It can take many forms. e.g. horizontal, diagonal or curved.
TONE	means the lightness or darkness of something. This could be a <u>shade</u> or how <u>dark</u> or <u>light</u> a <u>colour</u> appears
TEXTURE	the surface quality of something, the way something feels or looks like it feels. There are two types : <u>Actual</u> and <u>Visual</u>
SHAPE	an area enclosed by a <u>line</u> . It could be just an outline or it could be <u>shaded</u> in.
PATTERN	a design that is created by repeating <u>lines</u> , <u>shapes</u> , <u>tones</u> or <u>colours</u> . can be <u>manmade</u> , like a <u>design</u> on fabric, or <u>natural</u> , such as the markings on animal fur.
COLOUR	There are 2 types including Primary and Secondary . By mixing any two <u>Primary</u> together we get a <u>Secondary</u>

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<u>۱</u>	.)	
``	-	4

A Rough	A Visual/ Maquette	Final Piece
A basic sketch of a final idea	A small image or model created in selected materials	An image or sculpture pulling all preparatory work together

Composition Layouts

Rule of thirds – Place focal objects at 1/3 or 2/3 of the image horizontally or vertically. Not in the middle



Simplify and fill. Enlarge or crop the image to fill the space



	X	1	A
T	H	T	R
E	H		
Ľ	-		

Use lines. Lines will draw the viewer in, they don't have to be straight, consider S or C



Balance elements. If there is an emphasis on one side balance it out with smaller objects on the other



Doenn

Open accodemy Year 7 Electronics and Graphic design, making a speaker and packaging

Electronics

Activity: Create a project showing the packaging of items in your house. Explain the graphic design and evaluate it in detail how could it be improved? Then design your own packaging for the items you studied. 1 item each few days would be a suitable workrate.

Graphic design

Basic electronics comprises the minimal "electronics components" that make up a part of everyday electronics equipment. These electronic components include resistors, transistors, capacitors, diodes, inductors and transformers. Powered by a battery, they are designed to work under certain physics laws and principles

Basic components and their function



A capacitor is a component that can store electrical charge (electricity). In many ways it is like a rechargeable battery. A good way to imagine a capacitor is as a bucket, where the size of base of the bucket is equivalent to the capacitance (C) of the capacitor and the height of the bucket is equal to its voltage rating (V). The amount the bucket can hold is equal to the size of its base multiplied by its height, as shown by the shaded area.

A resistor is a device that opposes (or limits) the flow of electrical current in a circuit.

The bigger the value of a resistor the more it opposes (or resists) the current flow.



strip

Integrated Circuit The top picture is an IC holder placed into the PCB, below are ICs. The notch on the holder should line up with the notch on the PCB



Printed circuit board (PCB). Components are soldered onto this and joined by a copper



Batteries provide power to the circuit Finished soldered circuit



Soldering

Soldering is a process in which two or more metal items are joined together by melting and then flowing a filler metal into the joint the filler metal having a relatively low melting point. Soldering is used to form a permanent connection between electronic

components Tools to solder successfully

Soldering iron: Heats solder to attach components to PCB Wire strippers: Strips the plastic coating from electrical wire to make soldering easier

Solder: lead substitute, when melted acts like glue to join components to the PCB

Could you imagine a world without pictures to help you visualise products you are purchasing? A good company utilises pictures and text to help capture the attention of its audience. Graphic design is a combination of visual images and text to communicate to an audience.

Design and make new packaging for a specified target audience.

	Colour tl	heo	ry						Plastic	classif	ication			Gra	phic	al S	ymt	ols	
	What does each colour convey?	What an	re your t	orand's p	Sephaticated	traits'	A	A	A	\mathbf{A}	A	A	A	0		ų		††	Ĥ
	EXCITING FIERY BOLD AGGRESSIVE ACTIVE		1				PETE	HDPE	PVC	LDPE	PP	PS	OTHER	R	*	Ţ	n	6	X
_	FRIENDLY DELICIOUS CONFIDENT EXCITING						1. A C		and the second s		2015C	1.4.7	and the second second		1		•		-
HED ORANGE	HAPPY OPTIMISTIC						polyethylene terephthalate	high-density polyethylene	polyvinyl chloride	low-density polyethylene	polypropylene	polystyrene	other plastics, including	HOPE	101		ß	(4)	6
YELLOW GREEN	PEACEFUL HEALTHY CALM NATURAL	1		1		✓	soft drink bottles,	milkjugs, cleaning	trays for sweets, fruit,	crushed bottles,	fumiture, consumers.	toys, hard packing.	polycarbonate, polyactic	LOPE	6	10	1	101	10
PURPLE BLACK	TRUSTWORTHY DEPENDABLE STRONG	1		1			mineral water, fruite juice container,	agents, laundry determents,	plastic packing (bubble foil) and food foils	shopping bags, highly- resistant sacks	luggage, toys as well as bumpers,	refrigerator brays, cosmetic bags, costume	fibers, rylon, fiberglass	43	(alu)	Ô	m	(€	S
BROWN	CREATIVE REGAL FLAMBOYANT SMART		1		1		cooking of	bleaching agents,	to wrap the feedstuff	and most of the wrappings	lining and external	jewellery, CD cases,		1	3	ŝ	#943		-
	BALANCED CALM LUXURIOUS SENSIBLE	1		1	1			bottles,			Cars	reading caps				45 Poc	kage Sv	mbols	
	NATURAL RUGGED DEPENDABLE EARTHY	1				1		shower soops						shutte	arstock	Recycle	Handle'in	structions	s*Hazaro
		Image by Ma	ark Garmichel	f at Baker Mar	issting a Constitution	0.0015								SILUU	CIBLUCK	.com •	10/00	20002	

CE

Blister style packaging

Vacuum formed plastic A vacuum is applied sucking the sheet into the mould. The sheet is then

eiected from the mould. HIPS plastic

High Impact Polystyrene, it is a tough, rigid plastic material with high impact strength which can be guillotined, punched, routered or sawn easily, and is readily available in a wide variety of colours

CAD

2D Design and Solid Edge (3D) are used in the Academy. CAD (computer-aided design) software is used by architects, engineers, drafters, artists, and others to create precision drawings or technical illustrations. CAD software



Euroslot

A Euro slot is a flap for a product so it can be hung

up Cardboard

Cardboard is thick, stiff paper that is used, for example, to make boxes and models. It is made from paper pulp.

stands for Conformité Européenne, which is French for "European Conformity." A product in one of the controlled product categories cannot legally be sold in the EU unless it has passed the tests to receive the CE marking.



How To Solder





<u>Health and Safety</u>

<u>Micro-organisms</u>

Micro-organisms are tiny forms of life. They can only be seen under a microscope and are sometimes called microbes.

They spoil food and make it unsafe to eat because they contaminate it with their waste products, their physical presence and the toxins they produce.

<u>What micro-organisms can spoil food and make it unsafe to</u> eat?

There are three groups of micro-organisms that you need to know about that spoil food and cause food poisoning. These are..

- Bacteria
- Moulds
- Yeasts

Micro organisms need 5 conditions to grow and multiply:

- 1. A warm temperature
- 2. Plenty of moisture (water)
- 3. Plenty of food
- 4. The right PH level (not too acidic or alkaline
- 5. Enough time (bacteria split every 10-20 minutes)

<u>High risk foods</u>

- High risk food have ideal conditions for bacteria
- High risk foods are ready to eat foods that could grow harmful bacteria
- They are moist and high in protein which is food for bacteria.
- High risk foods have a short shelf life you can't keep them for long or the bacteria might multiply to dangerous levels.

Examples of high risk foods:

Cooked meat, fish and poultry, dairy products (eggs, cheese etc.), gravies, stocks and sauces, shellfish, cooked rice.

Example exam questions:

What five conditions to bacteria need to grow and multiply? (5 marks) What is a high risk food? (5 marks)

Storing food safely

Bacteria can grow and	1		
quickly between 5°C to • This is called the dang • The optimum temperat bacterial growth is 37'	multiply 63°C. er zone ure for °C		
Freezing (-18°C)			
 Freezing food below -18°C stops bacteria growing - they become dormant Freezing generally extends shelf life and the nutrients aren't lost It doesn't kill the bacteria thoug They become active again once the food defrosts. 			
uff falling in food sferring from our bacteria , T bacteria , T bacteria	<u>sh your</u> <u>ds after:</u> oughing neezing ying shoe ices oing to the oilet ouching air or face		
	 quickly between 5°C to This is called the dang The optimum temperat bacterial growth is 37° Freezing (-18°C) Freezing food below -1 bacteria growing - the dormant Freezing generally ext life and the nutrients of It doesn't kill the bact They become active ag the food defrosts. Was hand G the food defrosts 		

• Put all high risk foods in the fridge to slow bacteria growth



<u>Nutrients</u>

Macro nutrients - Needed in <u>large</u> quantities in the diet

- 1. Protein
- 2. Fats
- 3. Carbohydrates

Micro nutrients - needed in small quantities in the diet

- 1. Vitamins
- 2. Minerals

Dietary related health problems

Too much <u>sugar</u> can cause:

- 1. Weight gain (which can lead to obesity)
- 2. Tooth decay
- 3. Diabetes (your body cannot produce enough/any insulin to regulate your blood sugar levels)

Too much <u>salt</u> can cause:

1. High blood pressure (this can increase your risk of heart disease and a stroke).

Too much <u>saturated fat</u> can cause:

- 1. Weight gain (which can lead to obesity)
- 2. High cholesterol (this narrows arteries making it harder for the blood to travel around, putting you at risk of heart disease).

Example exam questions:

Explain three causes of obesity (3 marks)

What is the function of sugary and starchy carbohydrates (2 marks)

Why is protein especially important for children? (2 marks) What are the functions of fat? (3 marks)

List 5 food sources of plant based protein (5 marks)

Nutrition

Protein

Food sources

<u>Animal</u> -beef, pork, lamb, poultry (chicken, turkey, duck), fish, cheese, butter milk <u>Plant</u> - beans, chickpeas, lentils, peas, nuts, seeds, found in smaller amounts in some vegetables such as spinach and broccoli.

Function

Grown and repair of muscles and cells

<u>Carbohydrates</u>

There are two types of carbohydrates, complex and simple. They are also known as starchy (complex) and sugary (simple).

Food sources

<u>Starchy</u> - bread, rice, pasta, potatoes, bagels, oats, flour, cereal and some vegetables. Simple - fruit, some vegetables, chocolate, sweets, biscuits, cakes

Function

Starchy/complex carbohydrates are digested slowly and provide long term energy. Sugary/simple carbohydrates are digested slowly and provide short term energy

<u>Fat</u>

There are two types of fat, saturated and non saturated.

Saturated fats are classed as 'unhealthy fats', they are solid at room temperature and are generally animal based.

Unsaturated fats are classed as 'healthier fats' and are liquid or soft at room temperature and come from plant based sources.

Food sources

<u>Animal</u> -beef, chicken skin, processed meat (sausages, salami, pepperoni), bacon, butter, cheese, full fat milk

<u>Plant</u> - vegetable oils (sunflower, olive, rapeseed), avocado, nuts, seeds

Function

Keeps us warm (provides insulation), secondary source of energy, protects vital organs and bones.



The Eatwell guide



Example exam questions:

How can I make healthy choices when choosing foods from the 'beans, pulses, fish, eggs meat and other proteins' section of the guide? (3 marks)

How much of my plate should be made up of fruit and vegetables per day? (1 mark) How many grams of saturated fat is it recommended not to exceed per day? (1 mark) Why is recommended not to exceed 6g of salt per day? (2 marks)

How can someone use the traffic light system to help them make healthy choices? (6 marks) Health and Safety Example exam guestions:

What five conditions to bacteria need to grow and multiply? (5 marks) What is a high risk food? (5 marks)

<u>The Eatwell guide</u>

The Eatwell guide is a government guide designed to show you the proportions of different foods groups you should eat over a day or more.

Tips on making healthy choices from the eatwell guide:

<u>Fruit and vegetables</u>: eat 5 portions of fruit and vegetables a day, this should make up 1/3 of your plate a day, fresh, canned dried and fruit juice/smoothies all count, don't exceed 150ml of fruit juice/smoothie a day as it can cause tooth decay, try snacking on fruit over high sugar and fat foods,

<u>Potatoes, bread, rice, pasta and other starchy carbohydrates</u>: choose non-sugary cereals, leave the skin on potatoes, choose wholemeal options of foods such as bread, rice and pasta.

<u>Oils and spreads</u>: choose unsaturated fats such as vegetable oils and margarine over butter, use in small amounts. <u>Dairy and alternatives</u>: choose lower fat options such as skimmed milk and low fat and salt cheese, choose low sugar yogurts and add fruit as a natural sweetener.

<u>Beans, pulses, fish, eggs, meat and other proteins</u>: eat more beans and pulses as they are high in fibre and fill you up for longer, cut the visible fat off meat, choose lower fat meat options, eat 2 portions of fish a week. Water: drink 2-3 litres of water a day, choose lower sugar option drinks.

<u>Reference intake</u>

You'll see reference intakes referred to on food labels. They show you the maximum amount of calories and nutrients you should eat in a day. Most packaging has a colour coded label on the front to help you make healthy choices.

Reference in take amounts: Kcal (calories) - 2000 Total Fat -70g Saturated fat - 20g Sugar - 90g Salt - less that 6g



Red means HIGH in that nutrient Amber means MEDIUM in that nutrient Green means LOW in that nutrient

Reference intakes are not meant to be targets. They just give you a rough idea of how much energy you should be eating each day, and how much fat, sugar, salt and so on.

The percentages represent how much of your reference intake is in the product, e.g. the product has 3.0g of FAT in it, that is 4% of 70g of fat.

Red pepper and Tomato pasta sauce



Ingredients 1 small onion 1 clove garlic 1 red/yellow pepper 1 can chopped tomatoes Splash of oil Fresh basil/dried herbs Salt and pepper Optional: $\frac{1}{2}$ chilli

Equipment Chopping board Knife Saucepan wooden spoon can opener

Skills Slicing Dicing Using the hob Seasoning



1. Chop the onion and pepper into cubes. Mince the garlic.



2. Fry the onions and garlic in the oil for a few minutes until softened.

3. Add the pepper

and continue to cook for a few minutes.

How many things can you make with your sauce? Here are some ideas:

- Pasta topped with grated cheese
- Fry mince for a bolognaise
- Meatballs and pasta
- Add sausages, serve with mash
- Use as part of a lasagne



4. Add the can of tomatoes gently as they may spit.



5. Add black pepper, salt and mixed herbs and simmer gently for 10 minutes.

Marble Cake

<u>Ingredients</u>

100g caster sugar 100g soft margarine 2 eggs 100g self raising flour 1 x 15ml spoon coco powder

Equipment

Mixing bowl Measuring bowl Measuring scales Wooden spoon Jug Fork

<u>Skills</u>

Creaming Weighing Baking





1. Cream the butter and sugar together until light and fluffy.



4. Fold in the flour.

2. Crack the eggs in a jug and beat with a fork.



5. Place half the mixture into the tin, leaving space for the chocolate mixture.



3. Add the egg to the mixture a little bit at a time until all the egg is mixed in.



Mix chocolate powder into the remaining cake mixture. Fill the gaps in the cake tin with the chocolate mix and swirl lightly together. 250g-500g of minced beef OR Quorn mince

1 onion

- 1 pepper
- 1 carrot
- 2 cloves of garlic
- Can chopped tomatoes
- Can of kidney beans
- 1 stock cube
- 2tbsp tomato puree
- 1 tsp of hot chilli powder OR 2tsp of mild chilli powder
- 1tsp paprika
- 1tsp ground cumin
- 1tsp mixed herbs
- pepper
- <u>Equipment</u>
- frying pan
- Spatula
- White chopping board
- Knife
- Teaspoon
- tablespoon
- <u>Skills</u>
- Chopping
- Frying
- seasoning

<u>Chilli Con Carne</u>

Method

- 1. Prepare all vegetables, dice the onion and pepper, grate the carrot and mince the garlic.
- 2. Meanwhile heat a small amount of oil in your frying pan, and start frying the onions. Once they have softened add your garlic, peppers, grated carrot and seasoning.
- 3. Leave to cook for about 5 minutes then add your mince and cook until all the mince is browned (NO PINK)
- 4. Once the mince has browned, add your tin of tomatoes, 200ml of water (use your empty tin, half full) your (drained) tin of kidney beans, stock cube, 2 tablespoons of tomato puree.
- 5. Stir well, turn down the heat and leave to simmer for 15 20 minutes DON'T FORGET TO STIR OCCCASIONALLY, so that it doesn't stick or burn.



Textiles - Equipment and Fabric

What is Textiles and what is a Textile Designer?

- A textile is a type of woven cloth.

- A textile designer comes up with innovative ideas, designs and prints for a variety of fabrics, clothing and non-clothing materials, furnishing materials, industrial fabrics and other related materials, using both natural and manmade fibres.



Tools and equipment

Scissors Used to cut off loose threads when sewing

Embroidery needle

Needle with a large eye so the thread ca fit through. Used to sew decoration onto fabric.

Un-picker

Used to cut through stitches and thread. Usually used to amend mistakes.



Used to join fabric together, construct garments and textiles and also for decoration

Embroidery thread

Thick, colourful

thread using for

embroidery

decoration in hand

Embroidery hoop

Example exam guestions:

Give an example of a synthetic material. (1 mark) Explain the term 'textile design'. (2 marks) What is an un-picker used for?. (1 mark) Name one different between a sewing needle and an embroidery needle. (1 mark)

Fabrics

FEXTILE INDUSTRY VALUE CHAIN

Natural Fabrics

Cotton - produced from a cotton ball. Cotton is a soft breathable fabric used to make many fabrics for many uses. Can hold strong, bright colours when dyed.

Linen - produced from the flax plant. Linen is a strong, absorbent fabric and dries quickly.

Wool - produced commonly from sheep but also other animals such as goats and rabbits. Wool is insulating and water resistant.

Silk - the silk work produces a silk cocoon which is processed into silk. Silk is light and comfortable, has good insulating properties (warm in winter, cool in summer) and is strong.

Synthetic fabrics

Polyester - manmade from coal, water and petroleum. Polyester resilient fabric and can with stand a lot of wear an tear, holds dye well.

Nylon - manmade from petroleum, gas, coal and other materials. Nylon is a silky, strong and elasticated fabric.

Regenerated Fibre - Viscose is known as a regenerated fibre as it is made from cellulose found in wood pulp. It is often regarded as only partially man-made. It's a light, airy, breathable and biodegradable.

Bonded fabrics - Blended fabrics are created when two or more different kinds of fibres are mixed together to create a new fabric with unique properties e.g. polycotton.



<u>Textiles - Decorative techniques</u>

<u>Applique</u>

Applique is attaching shapes and patterns of fabric onto a larger piece of fabric to form a picture or pattern. Is it commonly used as decoration. The fabric can be attached by bondaweb or sewed using a machine or by hand.

Materials Required

Bondaweb, a variety of fabrics, tracing paper (if required and an iron.

How to do Applique

- Draw a simple design
- Trace the design onto the Bondaweb on the smooth side
- When using letters or words, you must do a mirror image using tracing paper
- Label each colour that you want to use on your design
- Select each colour fabric from the scrap fabric draws
- Cut roughly each section of the Bondaweb this will be ironed onto each colour
- Iron onto the coloured fabric that you have selected place the Bondaweb and the fabric in between two pieces of paper in case the design signs to the iron or the ironing board
- Cut out each shape
- Collect a larger swatch to put your applique onto
- Return to the iron, with your swatch and sections of your design
- Peel back the paper from your cut out design and lay onto the larger swatch
- Make sure that the applique is the correct way place the design between two pieces of paper in case the design sticks to the iron or the ironing board
- Iron onto the larger swatch

Example exam questions:

Explain how to complete an applique sample when using Bondaweb (8 marks) List 3 piece of equipment needed when completing hand embroidery. (3 marks)

Name one disadvantage of hand embroidery. (1 mark)

Explain what the term 'applique' means. (2 marks)



Materials required

Embroidery needle, thread, fabric, embroidery hoop.

Advantages of hand embroidery:

- Control over length of stitches
- Range of stitches to choose from

Disadvantages of hand embroidery:

- Time consuming
- Must be tied off correctly or will unravel
- Thread can get caught and tangled.



Patterns and the sewing machine

<u>Patterns</u>

Patterns are used as a template when making textiles and fashion garments. They instruct you where to cut, sew, add zips and any other details you may need to know.

<u>Pattern symbols</u>

Notch - Pattern notches are small marks made on the pattern to ensure that one pattern piece will match up to the pattern next to it.

Grain line - this is the direction on the fabric that the pattern should be cut. Some things are cut on the grain line, other are cut on the bias which is diagonal to the grain line.

Seam Allowance - This is the space between the edge of the fabric and the sew line. Cut along this line when cutting out fabric from a pattern, this allows room for sewing it together. The seam allowance is usually 1cm.

Sewing line - Sew along this line when constructing your textile/garment.

Example exam questions:

Why are notches used on pattern pieces. (2 marks)

Explain the advantages of using a sewing machine to construct textiles over hand sewing. (3 marks)

Why would the reverse stitch button be used when constructing a textile? (2 marks)

What is a bobbin used for? (2 marks)

Why is a seam allowance important? (3 marks)

What does this symbol mean on a pattern? (2 marks) -

Name two disadvantages of using a sewing machine for embroidery. (2 marks)





Year 7 Knowledge Organiser — Physical Education



Sport England posted an infographic on Twitter to give reasons why walking for 30 minutes each day was important. Scan this QR code to see the benefits.

Warming up and cooling down

Components of a warm up:

- Pulse raiser
- Stretches
- Skill related



Cooling

5 reasons why we must warm-up

 Increases the temperature of the muscles, tendons and ligaments, which reduces the chances of injury.

- 2.) Increases heart rate and body temperature safely, which reduces chances of injury.
- 3.) Increases flexibility, which aids flexibility.
- 4.) Mentally prepares you for exercise, which can help improve performance.
- 5.) Increases oxygen delivery to the working muscles, which supports performance

6 reasons why we must cool down

- 1.) Gradually returns body temperature, breathing and heart back to their resting rate.
- 2.) To mentally unwind.
- 3.) To remove lactic acid, helping to prevent DOMS (Delayed Onset Muscle Soreness)
- 4.) To remove carbon dioxide and waste products.
- 5.) Improves flexibility
 - .) Avoids blood from gathering in muscles (pooling), which can cause dizziness

DID YOU KNOW ... ?

The recommended safe heart rate for an individual during exercise is called your Maximum Heart Rate (HR max). To estimate your HR max you need the following formula: MAXIMUM HEART RATE = zzo - Your AGE. For example, if you are zo Years old your HR max would be zzo - zo = zoo beats per minute (bpm)

18

Components of Physical Fitness

Watch

thisl

Aerobic Endurance

The ability of the heart and lungs to work hard to supply nutrients and oxygen to the muscles during exercise.

Muscular Endurance

The ability of the muscles to work efficiently for long periods of time

Speed

The ability to cover a distance euickly. There are 3 types of speed (Accelerative speed, Pure speed and Speed Endurance.

Muscular Strength

The maximum force, measured in kilograms (Kg) or newtons (N) that can be generated by a muscle or group of muscles.

Flexibility

The range of motion in all joints of the body and the ability to move a joint fluidly through its complete range of movement.

Body Composition

The amount of fat to fat-free muscle mass.

Can you now link each of the physical components to a sporting example? E.g. what sport would you usually see flexibility being used?







Using this QR code, learn and remember the 5 key functions of the skeletal system.

Components of Skill-related Fitness

Agility - The ability of a sports performer to quickly change direction without losing balance or time

Balance - The ability to maintain your centre of mass over a base of support. There are two forms of balance (static which is maintaining balance in a stationary position and Dynamic which is maintaining balance while in motion)

Co-ordination - The ability of the body to work together to move smoothly and accurately

Power - The ability to use strength and speed. It is the work done in a unit of time and is calculated in the following way Power-= Force (Kg) x Distance (m) / time (mins or seconds)

Reaction time — The time taken for a sports performer to respond to a stimulus, for example, the time taken for a sprinter to react to the starter gun.









It is important to understand that different sports and sports performers require different aspects of fitness. Many sports need the same types of physical and skill related fitness, however some are unique and require specific components.



Dina Asher-Smith is a British and World Champion sprinter. She needs to have speed, power and reaction time to cover as much distance as possible, respond to the starter's pistol and move powerfully out of the blocks to get a good start. It is also important for sprinters to have excellent muscular strength and muscular endurance

Harry Kane will require similar components of fitness in order to be successful. Speed and agility will be essential to move quickly into position avoid defenders when he has possession of the ball. He will also need a very high-level of aerobic endurance and muscular endurance.



Can you think of other sports performers who would require different components of fitness?

Key words and terminologies

Aerobic Endurance	Muscular Endurance	Muscular Strength
Speed	Flexibility	Body Composition
Pulse Raiser	Stretches	Skill related
Gastrocnemius	Hamstring	Gluteus Maximus
Quadriceps	Triceps	Pectorals
Pectorals	Óblique	Fibula
Biceps	Tibia	Humerus
Femur	Radius	Ulna
Scapula	Clavicle	Vertebral Column
Cranium	Ribs	Sternum
Agility	Power	Balance
Co. ordination		Mary Haash Data

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FORCES



KS3 Forces			
Types of Forces	Measuring Forces	Force Diagrams	
Contact Forces Contact forces act between objects that are physically touching each other. friction – The force between two surfaces that are sliding, or trying to slide, past each other. air resistance – The force that acts in the opposite direction to an object's movement as it moves through the air. reaction – The force that supports an	Forces are measured in newtons (N). Forces can be measured using a newton meter.	You can't see forces but you can see their effects. We add force arrows to a diagram to show which forces are acting. The arrows show the direction and the size of the force (the longer the arrow, the bigger the force). The force arrows should touch the object in the diagram.	
object on a solid surface.	Interaction Pairs	Mass and Weight	Mass
tension – The force transmitted through a rope, string or wire when pulled by forces acting on each end.	Forces always act in pairs. The person's weight pushes down on the chair.	The moon has a smaller gravitational field strength than the Earth. This means that an object or person would weigh less on the moon. Their mass	Mass is the amount of matter an object is made up of. Mass is measured in kilograms (kg).
upthrust – The upward force exerted by a fluid on an object floating in it.	The reaction force from the chair pushes the person up.	would remain the same.	The value of mass will stay the same when the location of the object changes.
Non-Contact Forces Non-contact forces act between objects without them physically touching each other. gravitational force - The force acting on an object due to gravity.			Weight Weight is the total amount of force acting on an object due to gravity. Weight is measured in newtons (N). The value of weight will change depending on the gravitational field strength acting on the object. To calculate weight we use the equation:
magnetic force - The force exerted by a magnetic field on a magnetic	Force Fields		weight = mass × gravitational field strength
material. electrostatic force - The force that acts between two charged objects.	Non-contact forces act in fields. The field is the area around the object where the force is exerted.	mass: 65kg weight 104N	The gravitational field strength on Earth is 10N/kg.
	As an object gets farther away from the object exerting a force, the field gets weaker. For example, if a magnetic object is farther from a magnet, it will experience a smaller force of attraction towards the magnet.	mass: 65kg weight 650N	

information in the three pages on forces. Activity: Make a new knowledge organiser that combines the Add diagrams etc and

KS3 Forces

Elastic objects can be compressed or stretched by forces. When an object is changed in these ways, we say it is deformed.



The amount that an object is stretched is called the extension.



The extension of some elastic objects can be described by Hooke's law.

force (N) = spring constant (N/m) × extension (m)

Spring constant is a measure of the stiffness of a material. It indicates the force needed to change the length of a material by 1m. The greater the spring constant, the greater the force needed to stretch the material.

If you plot the extension of a spring against the force applied to the spring the results give a straight line through the origin.

The graph shows that if you double the force, the extension also





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BIO-ENERGETICS (ENERGY IN BIOLOGICAL SYSTEMS)











Describe the relationship between the force applied to a spring and the extension of a spring.

Give the name of the law that describes this relationship.

Write down the equation that links extension, force and spring
constant.

A spring has a spring constant of 20N/m and is extended by 0.2m.

Calculate the force applied to the spring.

A force of 6N is applied to a spring with a spring constant of 16N/m.

Calculate the extension of the spring in cm.

A further 4N is applied to the spring. After 2N the spring reaches its elastic limit.

Describe what happens to the relationship between the extension and the force applied after this point.

19.

20.

Knowledge Organiser: Year 7 Summer Term 1 The internet

Summary

The internet has changed the way we work and play. It allows us to communicate, to share data and to look information in a matter of seconds. All this is possible through the use of computers and networks.

The internet is a global network of computers. All computer devices (including PCs, laptops, games consoles smartphones) that are connected to the internet form part of this network. Added together, there are billio computers connected to the internet, all able to communicate with each other.

Today, the internet is a massive part of our daily lives.

When you chat to somebody on the internet or send them an e-mail, do you ever stop to think how many different computers you are using in the process? There's your computer/smartphone, of course, and anot the other end where the other person is ready to communicate with you. But in between your two machine communication between them possible, there are probably about a dozen other computers bridging the ga Collectively, all the world's linked-up computers are called the Internet. How do they talk to one another?

should look.

So how does information move around the internet?

Let's imagine you are visiting a webpage with an image on it. How does the image get to your computer? The image is stored on a web server. Your computer sends a request to the web server for the image. The request is sent in a 'packet'. Special computers

called routers, and devices direct the packet from your computer to the web server. The web server might be close by or on the other side of the world.

The packet can be sent across the world through fibre optic cables under the sea or even by satellite.

Now that the packet has arrived the web server opens it and reads your computer's request, in this case 'please send me this image'.

The web server sends these packets back to your computer and once again routers and switches direct them. The routers try to find the fastest possible route for

each packet. They might take different routes and might not arrive in the same order they were sent. Now that all the packets have been received the information attached to them tells your computer how to put them back together and the image will display on your screen.

This whole process of sending a request and receiving the packets usually takes less than a second!



for I	Key Vocabula	ry -
and ns of	Hyperlink	Websites and webpages are joined together using hyperlinks. Clicking on a hyperlink takes us to another site or page.
her one at	Http	Tells the computer to use the hyper text transfer protocol for communicating with the website
p.	HTML	Hypertext Markup Language.
	Internet	The internet is a global network of computers.
	Protocol	A set of rules or procedures for transmitting data between electronic devices
her Computer 5.5.7.8	URL	A website's address .Each address contains the prefix 'http:' which tells the computer to use the hyper text transfer protocol for communicating with the website.
	VOIP	Internet protocol (VoIP) is the technology that allows us to video conference. Many companies offer free VoIP services, including Skype, Apple Facetime and WhatsApp.
4	World Wide Web	World Wide Web is the part of the internet that can be accessed through websites
er		VoIP and video conferencing
	Skype Coogle	ocher Ner Parterer
age vebpage	KEEP CALM	https://bbc.in/2scPily
	GO PRACTICE	Bitesize



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lessons



Topics covered

- \checkmark What is a settlement?
- ✓ Settlement sites
- ✓ Site factors
- ✓ Settlement hierarchy
- ✓ Settlement functions
- ✓ Mega-cities
- \checkmark Impossible cities
- ✓ Future Cities

Designed by KMU for Open Academy 2019

Year 7 Knowledge Organiser: Settlements



Key Ideas:

- I can describe settlement characteristics (area size, population, services)
- 2. I can describe settlement site factors (where people choose to live)
- I can explain how and why settlements can grow (migration/birth rates)
- 4. I can suggest how some cities are becoming more 'sustainable'

Skills

Recognising geographical features from maps
 Describing geographical features from images
 Describing a distribution on a global scale
 Research using ICT
 Creating an informative leaflet

\Box Designing using MSOffice

Places and Environments

- * Norwich
- ✤ London
- * Rio de Janeiro
- * Maldives
- ✤ Las Vegas

Key Terms Used in this Unit

- □ Site factors
- □ Aspect
- □ Raw materials
- D Population
- Terrain
- □ Springs
- □ Bridging point
- □ Route centre
- □ Services
- □ Administration
- Residential
- Industrial
- □ Migration
- □ Employment
- Growth
- □ Arid
- □ Xeriscaping
- □ Sustainable



Topics covered

- ✓ Types of resources
- \checkmark Finite and Infinite

resources

- \checkmark Non-renewable energies
- ✓ Nuclear power
- \checkmark Renewable energies
- ✓ Wind energy
- \checkmark Waste and pollution
- ✓ The 3 R's
- \checkmark Saving energy in the home

Year 7 Knowledge Organiser: Go Green

Key Ideas:

- 1. I can describe how fossil fuels form and can explain why people want to end their use
- 2. I can describe advantages and disadvantages of renewable energy types
- I can explain different opinions on some controversial (not all people agree upon) energy sources
- 4. I can design an eco-home

Skills

To read source information on energy types
 To use digital mapping (GIS) to investigate

- site factors
- \Box To research energy types using ICT
- To use numeracy skills to cost an eco-home design

Places and Environments

- ♦ Scroby Sands,
- Norfolk Coast
- Sizewell power
 - station,
 - Suffolk



Key Terms Used in this Unit

D Fossil Fuels □ Finite □ Non-renewable Sedimentary Rocks Geological Carbon Dioxide □ Methane Greenhouse effect Global Warming □ Radioactive Landfill sites □ Recyclable □ Bio-degradeable □ Insulation Grey water Conservation

□ Sustainable □ Passive home Activity: Use technology to find out how the virus is changing our energy use and pollution. Write a report linking to the ideas in settlements and go green. Your report should include as much of the key vocabulary as possible.

Activity: This is perfect if you have a younger sibling. You can do it together. Draw a table showing the countries, flags and capital cities. Do one per continent. Put as many countries in as you can.

Country	Nationality	Capital	Flag
Portugal	Portuguese	Lisbon	۲
Spain	Spanish	Madrid	
Great Britain			



Freizeit; Mein Zuhaus

Sport	Sport	Freizeit	Free time	
Ich spiele	I play	Was machst du in deiner Freizei	? What do y	ou do in vour
Ich spiele gern	Ilike playing	free time?	,	,
Ich spiele nicht gern	l don't like plaving	Ich spiele Computerspiele.	l play com	puter games.
Er / Sie spielt gern	He / She likes playing	Ich spiele Gitarre.	l play the d	uitar. Ĭ
Basketball.	basketball.	Ich gehe in die Stadt.	I go into to	wn.
Federball.	badminton.	Ich gehe in den Jugendklub.	I go to the	youth club.
Fußball.	football.	Ich gehe ins Kino.	I go to the	cinema.
Rugby.	rugby.	Ich besuche meine Freunde.	l visit my fi	riends.
Tennis.	tennis.	Ich fahre Rad.	I go cycling	g.
Tischtennis.	table tennis.	Ich faulenze.	l laze arou	ind.
Volleyball.	volleyball.	Ich höre Musik.	I listen to r	nusic.
Spielst du gern ?	Do you like playing?	Ich lese.	I read.	
Ich gehe	l go	Ich sehe fern.	I watch TV	<i>!</i> .
Ich gehe gern	I like going	Ich tanze.	I dance.	
Ich gehe nicht gern	I don't like going	Hörst du gern Musik?	Do you like listen	ing to music?
Er / Sie geht gern	He / She likes going	Fährst du gern Rad?	Do you like	e cycling?
angeln.	fishing.	Liest du gern?	Do you like	e reading?
klettern.	climbing.	Siehst du gern fern?	Do you like	e watching TV?
reiten.	riding.	Gehst du gern ins Kino?	Do you like going	to the cinema?
schwimmen.	swimming.	Spielst du gern Tennis?	Do you like	e playing tennis?
segeln.	sailing.			
wandern.	hiking.	Lieblingssachen	Favourite	things
windsurfen.	windsurfing.	Was ist dein	What is yo	ur
Snowboard fahren	snowboarding	Lieblingsauto?	favo	ourite car?
Wildwasser fahren	whitewater rafting	Lieblingshaustier?	favo	ourite pet?
Kanu fahren	canoeing	Lieblingssport?	favo	ourite sport?
Mountainbike fahren	mountain biking	Was ist deine	What is yo	our
		Lieblingsmannschaft?	favo	ourite team?
		Lieblingssendung?	favourite p	rogramme?
		Lieblingsfarbe?	favourite c	olour?



Freizeit; Mein Zuhaus

Γ	Lieblingsmusik?		favourite music?		Nein, das mag ich n
	Lieblingszahl?		favourite number?		Nein, das ist langwe
	Mein / Meine ist	My	is		Wann treffen wir uns
					Um Uhr.
ſ	Wie oft?	How	often?		Bis dann.
	Wie oft spielst du Fußball? football?	How o	often do you play		Bis Samstag.
	Wie oft gehst du schwimmen? swimming?	How o	often do you go		
	Wie oft spielst du am Computer? the computer?	How o	ften do you play on		
	Wie oft siehst du fern? Wie oft liest du ein Buch?	How of	often do you watch TV?		
	Wie oft fährst du Rad?	How o	often do you go cycling?		
	Jeden Tag.	Every	day.		
	Einmal pro Woche.	Once	a week.		
	Am Wochenende.	At the	weekend.		
L	Nie.	Never			
Г	Diana	Diama		-	
	Plane	Plans			
	Hast du am Samstag Zeit?	Have	you got time on Saturday?		
	Mochtest du	Would	I you like to		
	Fulsball spielen?		play tootball?		
	Tennis spielen?		play tennis?		
	Basketball spielen?		play basketball?		
	ins Kino gehen?		go to the cinema?		
	in die Stadt gehen?		go into town?		
	in die Disko gehen?		go to the disco?		
	in den Jugendklub gehen?	,	go to the youth club?		
	Ja, gern.	Yes, I	would.		
	Ja, das mag ich.	Yes, I	like that.		

Nein, das mag ich nicht.	No, I don't like that.
Nein, das ist langweilig.	No, that's boring.
Wann treffen wir uns?	When shall we meet?
Um Uhr.	At o'clock.
Bis dann.	See you then.
Bis Samstag.	See you Saturday.



Die Schule; Familie und Freunde

Meinungen	Opinions
Wie findest du Deutsch?	What do you
think	of German?
Ich finde es I think it's	
gut.	good.
schlecht.	bad.
interessant.	interesting.
langweilig.	boring.
einfach.	easy.
schwierig.	difficult.
toll.	great.
furchtbar.	awful.

Die Uhrzeit	Telling the time
Wie viel Uhr ist es? What	s the time?
Es ist neun Uhr.	lt's nine o'clock.
Es ist neun Uhr dreißig.	lt's nine-thirty.
Wann beginnt Deutsch?	When does
	German start?
Wann endet Deutsch?	When does
	German end?
Um zehn Uhr fünfzig.	At ten-fifty.

Das Pausenbrot Sna	acks at break
Was isst du in der Paus	e? What do you eat at break?
Ich esse	l eat
einen Apfel.	an apple.
eine Orange.	an orange.
eine Banane.	a banana.
ein Brötchen.	a roll.
Kuchen.	cake.
Schokolade.	chocolate.
Kekse.	biscuits.
Chips.	crisps.
Bonbons.	sweets.
Ich esse nichts. I de	on't eat anything.
Was trinkst du in der Pa	ause?
Ich trinke Cola.	I drink Coke
Orangensaft.	orange juice.
Wasser.	water.
Ich trinke nichts.	l don't drink
	anything.
Ja, bitte?	Can I help you?
Ein Brötchen, bitte.	A roll, please.

Das macht fünfzig Cent.	That's fifty
	cents.
Bitte.	Here you are;
	You're welcome
Danke.	Thanks.

Die Schuluniform	School uniform
der Pullover	jumper
der Rock	skirt
die Bluse	blouse
die Hose	trousers
die Jacke	blazer
die Krawatte	tie
das Hemd	shirt
das Kleid	dress
das Sweatshirt	sweatshirt
das T-Shirt	T-shirt
die Jeans	jeans
die Schuhe	shoes
die Socken	socks



Die Schule; Familie und Freunde

die Sportschuhe	trainers
die Stiefel	boots
Der Rock ist (blau). Die Socken sind (gelb) (yellow).	The skirt is (blue). . The socks are
Was trägst du in der S wear to school?	chule? What do you
Ich trage	I wear
einen Rock.	a skirt.
einen Pullover.	a jumper.
eine Hose.	trousers.
eine Jacke.	a blazer / jacket.
eine Krawatte.	a tie.
ein Hemd.	a shirt.
ein T-Shirt.	a T-shirt.
ein kleid.	a dress.
ein Sweatshirt.	a sweatshirt.
Jeans.	jeans.
Socken.	socks.
Schuhe.	shoes.
Stiefel.	boots.
Sportschuhe.	trainers.

Ich finde das cool	I think it's cool.			
bequem.	comfy.			
schick.	smart.			
gut.	good.			
Ich habe keine Sch	uluniform. I don't			
	have a school uniform.			
Geschwister	Brothers and sisters			
Hast du Geschwiste	er? Do you have any			
siblings?				
Ich habe	I have			
einen Bruder.	a brother.			
einen Halbbruder.	a half-brother.			
einen Stiefbruder.	a stepbrother.			
zwei Brüder.	two brothers.			
eine Schwester.	a sister.			
eine Halbschwester	r. a half-sister.			
eine Stiefschwester	. a stepsister.			
zwei Schwestern.	two sisters.			
Ich bin Einzelkind.	I am an only			
	child.			

Haustiere	Pets
Hast du ein Haustier? pet?	Do you have a
Ich habe	I have
einen Goldfisch.	a goldfish.
zwei Goldfische.	two goldfish.
einen Hamster.	a hamster.
vier Hamster.	four hamsters.
einen Hund.	a dog.
drei Hunde.	three dogs.
einen Wellensittich.	a budgie.
sechs Wellensittiche.	six budgies.
eine Katze.	a cat.
sieben Katzen.	seven cats.
eine Schildkröte.	a tortoise.
zwei Schildkröten.	two tortoises.
eine Schlange.	a snake.
neun Schlangen.	nine snakes.
ein Kaninchen.	a rabbit.
fünf Kaninchen.	five rabbits.
ein Meerschweinchen.	a guinea pig.
Zehn Meerschweinchen	ten guinea pigs.



Die Schule; Familie und Freunde

ein Pferd.	a horse.
acht Pferde.	eight horses.
Ich habe keine Haustiere	l don't have any
pets.	

Familie	Family
Das ist	That's
mein Vater.	my father.
mein Stiefvater.	my stepfather.
mein Großvater.	my grandfather.
mein Cousin.	my cousin (m)
mein Onkel.	my uncle.
mein Bruder.	my brother.
meine Mutter.	my mother.
meine Stiefmutter.	my stepmother.
meine Großmutter.	my grandmother.
meine Schwester.	my sister.
meine Tante.	my aunt.
meine Cousine.	my cousin (f)
lst das	Is that
dein Onkel?	your uncle?
dein Bruder?	your brother?

dein Vater?	your father?		
dein Stiefvater?	your stepfather?		
dein Großvater?	your grandfather?		
dein Cousin?	your cousin		
(male)?			
deine Mutter?	your mother?		
deine Stiefmutter?	your stepmother?		
deine Schwester?	your sister?		
deine Großmutter?	your grandmother?		
deine Tante?	your aunt?		
deine Cousine?	your cousin (f)?		
Wie heißt er / sie?	What is he / she called?		
Er / Sie heißt	He / She is called		
Wie alt ist er / sie?	How old is he / she?		
Er / Sie ist elf Jahre	alt. He / She is 11		
	years old.		

Die Zahlen 70–100		Numbers 70-100
siebzig	70	achtzig 80
einundsiebzig	71	neunzig 90
zweiundsiebzig	72	hundert 100
dreiundsiebzig	73	

Wie siehst du aus? What do you look		
like?		
Ich habe	I have	
Du hast	You have	
Er hat	He has	
Sie hat	She has	
blaue Augen.	blue eyes.	
braune Augen.	brown eyes.	
graue Augen.	grey eyes.	
grüne Augen.	green eyes.	
braune Haare.	brown hair.	
blonde Haare.	blond hair.	
rote Haare.	red hair.	
schwarze Haare.	black hair.	
lange Haare.	long hair.	
kurze Haare.	short hair.	
glatte Haare.	straight hair.	
lockige Haare.	curly hair.	
Ich bin	I am	
Du bist …	You are	
Er / Sie ist	He / She is	
groß.	tall.	

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Die Schule; Familie und Freunde

mittelgroß.	medium height.
klein.	short.
schlank.	slim.
kräftig.	strong.
dick.	fat.

Wie bist du?	What are you like?		
Ich bin (freundlich).	l am (friendly).		
Wie ist er / sie?	What is he / she like?		
Er / Sie ist	He / She is		
lustig.	funny.		
laut.	noisy.		
schüchtern.	shy.		
intelligent.	intelligent.		
sportlich.	sporty.		
musikalisch.	musical.		
kreativ.	creative.		
faul.	lazy.		
launisch.	moody.		
unpünktlich.	unpunctual.		
nicht sehr	not very		
ziemlich	fairly		



Year 7 History - Native Americans, Tudor England and the Reformation

Key words					
Native Americans	General term used to describe the hundreds of different tribes who have lived in North America for thousands of years, long before it was settled by white Europeans				
Buffalo	A large mammal living in North America. Many tribes relied on the Buffalo as a source of food, shelter, clothing, medicine and many other uses				
Nomadic	A way of life in which a tribe or group travels and settles temporarily rather than setting up towns, villages or cities				
The Great Plains	An area of the USA covered mostly with grassland - once home to Buffalo and tribes such as the Sioux and Apache.				
The Reformation	A process of religious change in early modern Europe, where much of Europe converted from Catholicism to Protestantism				
Catholicism	A type of Christianity that believes that the Pope is the head of the Church and that the Bible and church services should be in Latin				
Protestantism	A type of Christianity that does not believe that the Pope is the head of the Church and that the Bible and church services should be read by people in the own language				
Henry VIII	King of England between 1509 and 1547. Most famous for his six wives, Henry was also important in making England a more Protestant country with himself as head of the English Church				
Martin Luther	A German Protestant who wrote several important books/articles about religion that helped spread the Protestant religion around Europe				

Some tribes lived on the Great Plains (see key words above). These tribes mostly lived nomadically and hunted the Buffalo, of which they used the entire body. For example, they lived in Tipis, a type of tent build from Buffalo hide. Plains tribes also frequently raided each other, and the white settlers once they arrived. It was the Plains tribes who were some of the last to be defeated by the US military around the year 1900. On the right is a diagram showing the many different uses of the Buffalo.

Native Americans

Before white settlers arrived in North America it was known as 'Turtle Island' and was inhabited by millions of people organised into hundreds of different tribes. Each tribe had their own way of life, including different diets, spiritual beliefs, languages and customs.

Some of the largest tribes were the Sioux, Navajo, Cherokee, Apache and Iroquois. Although up to 90% of the population were killed by white settlers, most tribes still remain today. However most of their original territory was taken from them and some now live in different regions to their ancestors.





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The Tudors

The Tudors were a family who ruled England between 1485 and 1603. They are remembered for the amount that they changed England. One of the biggest changes they introduced under Henry VIII, Edward VI and Elizabeth I was the English Reformation. This was when England changed from a Catholic country to being a Protestant country.

Causes of the Reformation	Consequences			
The Reformation in Europe	Protestants throughout Europe like Martin Luther helped spread Protestant ideas. These books reached England and many people began to change their religion.			
Anne Boleyn	Henry VIII's second wife and a Protestant, Anne encouraged Henry to end his first marriage and convert to Protestantism. Henry eventually did this and fell out with the Pope.			
Corruption in the Catholic Church	Probably exaggerated by Henry VIII, monks and other Catholics were accused of drinking, gambling and being too wealthy. As a result, Henry closed down their monasteries.			
Actions of Protestant monarchs	Although Henry VIII was the one to bring in the Protestant Reformation, it was actually under Edward VI and Elizabeth I that Protestant changes occurred much more rapidly. Both introduced a 'book of common prayer' that was in English and preached Protestant ideas.			











Henry VII, reigned 1485-1509

Henry VII took the throne by defeating the previous King, Richard III. Henry made efforts to control the barons in England. He taxed them heavily and punished them harshly for disobeying him.

Henry VIII, reigned 1509-1547

Determined to have a son of his own, Henry married six different women and had three surviving children. In the 1530s Henry claimed to have become a Protestant and changed the religion of England to Protestant with himself as head of the Church.

Edward VI, reigned 1547-1553

Henry VIII's only son and just nine years old when he was crowned King and dead by the age of 15, Edward never really had the chance to rule England. Edward was raised as a Protestant so England became more Protestant during his reign.

Mary I, reigned 1553-1558

Mary was Henry VIII's eldest daughter and a strong Catholic. Nicknamed 'bloody Mary' she is often remembered for executing many Protestants but was also a strong eueen in a difficult time.

Elizabeth I, reigned 1558-1603

Elizabeth was Henry VIII's youngest child and a Protestant like her brother. Often remembered as one of England's greatest queens, she continued to make England more Protestant, with increasingly harsh punishments of Catholics who resisted.



Vocabulary to learn Syllable Alliteration Simile Metaphor Personification Onomatopoeia Stanza Rhyme Rhythm Pace Speaker Tone Inference Explicit Implicit	Structu (ar	re analysis - methods: Zoom in/out Repetition of an image/idea Links and connections between paragraphs Shifts: - inside to outside (and vice versa) - focus - time - topic - setting/place - mood/atmosphere - description to dialogue nd vice versa)	 Language analysis Checklist: Link to task Relevant quote Meaning of quote Method named Effects explained Word zoomed in on Meaning of word Implied meanings 		FIRE PARAGRAPHSTime - change in TIMEImage: Change in TIMEImage: Change in Change in PLACEImage: Change in TOPICImage: Change in SPEAKERImage: Change in SPEAKER
Technique Method feature	e Sentence Definition		Example	Literary devices and word class Metaphor – a literal comparison – <i>she was a monster</i>	
	Fragment sentence	An incomplete idea.		Rolling thunder.	 Personification – human qualities – the grass danced in the wind Simila – os (like (as if – he was like a men personal)
WICKED POEMS	Simple sentence	Contains one complete idea in an independ	lent clause.	The lightning flashed.	 Onomatopoeia – the sound words – bang, pop, sizzle Alliteration – same starting sounds - really rather raucous
	Compound sentence	Contains two independent clauses linked t semi-colon.	ey a conjunction or a	The lightning flashed <u>and</u> the rain fell. The lightning flashed; the rain fell.	 verbs – doing words Adjectives – describing words Nouns – objects or abstract things e.g. love
ROGER MCGOUGH NEAL LAYTON	Complex sentence	Contains an independent clause and at lease clause.	st one dependent	Despite the thunder and lightning, there was no rain.	 Adverbs – describe doing words e.g. wrote <u>neatly</u> connotations of words – associations – night-time = mystery

Dear Student,

Please find enclosed your Knowledge Organiser for English together with a range of activities that you need to complete over the next six weeks. We also include a copy of an optional project. We recognise that some of these activities could be impossible for you to complete at present, but if you would like to have a go at any of the activities you can bring this project back to school when we resume our normal work pattern. The project is optional, however, there will be prizes for students who work hard against the odds to complete these activities!

Regards.

Your English Teachers



Activities:

- Look up and define any of the key words in the purple box that you don't feel confident with.
- Look, cover and copy the key words in the purple box. Do this each day until you get them all right. You could finish your learning of these words by getting a parent or sibling to test you on all of them.
- Using the poems on the next page, highlight any structural devices from the red box that you can see. For example, does the poem begin with a happy tone/mood but then change towards the end? This would be a 'shift'. Perhaps the poet describes something within the poem in great detail this would be a 'zoom'. Are there any repeated words or images?
- For each poem, write an essay, in PEE (point, evidence/quote, explain), about how the poet uses language (words and phrases) and methods to create impact/have an effect on the reader. You should spend about an hour on each essay, so don't try to do them all in one day! Space them out; perhaps do one a week. Use the green and blue box to help you and to check your work.
- Choose a poem to see how the poet uses punctuation. Look up what the word 'cesura' means and annotate (label) why you think the poet has used any full stops, question marks, exclamation marks or speech marks within their poem.
- Copy out your favourite poem to practise your neatest handwriting, taking care to ensure the lines are the right length and the punctuation and capital letters are used in the same way. Also make sure the stanzas (poetry paragraphs) are clearly spaced/divided so it looks exactly as it does on the page you are copying from. Decorate your poem with the imagery it creates in your mind.
- Write your own poem/poems, using the techniques you have learnt from your knowledge organisers and the activities you have already completed. Use the checklists to use as many techniques, both linguistic and structural, as you can to affect your reader.

Timothy Winters Charles Causley

Timothy Winters comes to school With eyes as wide as a football pool, Ears like bombs and teeth like splinters: A blitz of a boy is Timothy Winters.

His belly is white, his neck is dark, And his hair is an exclamation mark. His clothes are enough to scare a crow And through his britches the blue winds blow.

When teacher talks he won't hear a word And he shoots down dead the arithmetic-bird, He licks the patterns off his plate And he's not even heard of the Welfare State.

Timothy Winters has bloody feet And he lives in a house on Suez Street, He sleeps in a sack on the kitchen floor And they say there aren't boys like him anymore.

Old man Winters likes his beer And his missus ran off with a bombardier. Grandma sits in the grate with a gin And Timothy's dosed with an aspirin.

The Welfare Worker lies awake But the law's as tricky as a ten-foot snake, So Timothy Winters drinks his cup And slowly goes on growing up.

At Morning Prayers the Master helves For children less fortunate than ourselves, And the loudest response in the room is when Timothy Winters roars "Amen!"

So come one angel, come on ten: Timothy Winters says "Amen Amen amen amen amen." Timothy Winters, Lord. Amen!

Stealing Carol Ann Duffy

The most unusual thing I ever stole? A snowman. Midnight. He looked magnificent; a tall, white mute beneath the winter moon. I wanted him, a mate with a mind as cold as the slice of ice within my own brain. I started with the head. Better off dead than giving in, not taking what you want. He weighed a ton; his torso, frozen stiff, hugged to my chest, a fierce chill piercing my gut. Part of the thrill was knowing that children would cry in the morning. Life's tough. Sometimes I steal things I don't need. I joy-ride cars to nowhere, break into houses just to have a look. I'm a mucky phost, leave a mess, maybe pinch a camera. I watch my gloved hand twisting the doorknob. A stranger's bedroom. Mirrors. I sigh like this - Aah. It took some time. Reassembled in the yard, he didn't look the same. I took a run and booted him. Again. Again. My breath ripped out in rags. It seems daft now. Then I was standing alone among lumps of snow, sick of the world. Boredom. Mostly I'm so bored I could eat myself. One time, I stole a guitar and thought I might learn to play. I nicked a bust of Shakespeare once, flogged it, but the snowman was the strangest. You don't understand a word I'm saying, do you?

The Moon Roberts Louis Stevenson

The moon has a face like the clock in the hall; She shines on thieves on the garden wall, On streets and fields and harbour quays, And birdies asleep in the forks of the trees.

The seualling cat and the seuaking mouse, The howling dog by the door of the house, The bat that lies in bed at noon, All love to be out by the light of the moon.

But all of the things that belong to the day Cuddle to sleep to be out of her way; And flowers and children close their eyes Till up in the morning the sun shall arise.

<u>The Fog</u>Robert Frost THE fog comes on little cat feet.

It sits looking over harbour and city on silent haunches and then moves on.

Topic/Skill	Definition/Tips	Example
1. Solve	To find the answer/value of	Solve $2x - 3 = 7$
	something	
		Add 3 on both sides
	Use inverse operations on both sides	Divido hy 2 on hoth eiden
	of the equation (balancing method)	DIVIDE by 2 OF BOLF SIDES $x = 5$
	until you find the value for the	
	letter.	
2. Inverse	Opposite	The inverse of addition is
		subtraction.
		The inverse of multiplication is
		division.
3. Rearranging	Use inverse operations on both sides	Make x the subject of $y = \frac{2x-1}{x}$
Formulae	of the formula (balancing method)	I
	until you find the expression for the	Multiply both sides by z
	letter.	$y^2 = 2x - 1$
		Add 1 to both sides $v_{s+1} = 2x$
		Divide by 2 on both sides
		$\frac{yz+1}{2} = x$
		We now have x as the subject.
4. Writing	Substitute letters for words in the	Bob charges £3 per window and a
Formulae	auestion.	£5 call out charge.
		C = 3N + 5
		-
		Where N=number of windows and C=cost
5. Substitution	Replace letters with numbers.	a = 3, b = 2 and $c = 5$. Find:
		1. $2a = 2 \times 3 = 6$
	Be careful of $5x^2$. You need to souare	2. $3a - 2b = 3 \times 3 - 2 \times 2 = 5$
	first, then multiply by 5.	3. $7b^2 - 5 = 7 \times 2^2 - 5 = 23$
	fa faditudan mant fatan	



Topic: Equations and Formulae

Topic: Representing Data

Topic/ S kill	Definition/Tips	Example	4. Pie	Used for showing how data breaks	
1. Erequency	A record of how often each value	Number of merks Tally merks Frequency 3 JHT II 7	Chart	down into its constituent parts.	Arrow are from a
Table	in a set of data occurs.	2 HTI 5		When drawing a pie chart, divide	Norther all
		4 JH1 5		360 by the total frequency. This	
		5 III 2		will tell you how many degrees to	If there are 40 people in a survey, then
2 Bar	Represents data as vertical	141		use for the frequency of each	each person will be worth 360÷40=9°
Chart	blocks.	12-		category.	or the pie chart.
	- axis shows the type of data	Junto a		Remember to label the category	
	y = axis shows the frequency for			that each sector in the pie chart	
	each type of data			represents.	L
	Each bar should be the same	0 1 2 5 4	5.	Uses pictures or symbols to show	Black 🚔 🚔 🐔
	width	Number of pets owned	Pictogram	the value of the data.	Red A A A
	There should be gaps between				
	each bar			A pictogram must have a key.	Others H H H H
	Remember to label each axis.		6. Line	A graph that uses points	u 2
			Graph	connected by straight lines to	u
				show how data changes in values.	
3. Types of Bar Chart	Compound/Composite Bar Charts show data stacked on top of each			This can be used for time series	
	other.	Presson and Presso		data, which is a series of data	
				points spaced over uniform time	
				intervals in time order.	Operation: Consolete the 2 way table below.
		and the second s	7. Two Way	A table that organises data	Left Hunded Raght Handed Total Boys 10 58
		50 Rainfall	Tables	around two categories.	Guds Total 84 100
		40 30 cm 20		Fill out the information step by step using the information given.	Autowor, Step J, fill out the rate party (the bolat) Left Handed Rath Handed Total Boys 10 43 58 Outls 43 58 Outls 43 58 Outls 43 64 Total 10 Aurowor: Step 2, fill out the remaining parts Left Handed Rath Handed Total
	Comparative/Dual Bar Charts	10			Berrs 10 48 58 Gals 6 16 42
	show data side by side.	Jan Feb Mar Apr May		Make sure all the totals add up	Total 16 84 100
	,	Dual Bar Chart		for all columns and rows.	



8. Frequency Tree	A diagram showing how information is categorised into various categories.	Box's Does not wear glasses
	The numbers at the ends of branches tells us how often something happened (frequency).	Ging Wears glasses
	The lines connected the numbers are called branches.	Does not wear glasses
9. Sample Space	The set of all possible outcomes of an experiment.	+ 1 2 3 4 5 6 1 2 3 4 5 6 7 2 3 4 5 6 7 8 3 4 5 6 7 8 9 4 5 6 7 8 9 10 5 6 7 8 9 10 11 6 7 8 9 10 11 12
10. Sample	A sample is a small selection of items from a population.	A sample could be selecting 10 students from a year group at school.
	are not represented in the sample.	
11. Sample Size	The larger a sample size, the closer those probabilities will be to the true probability.	A sample size of 100 gives a more reliable result than a sample size of 10.

Please use QR codes to support your knowledge:





Topic/Skill	Definition/Tips	Example
1. Percentage	Number of parts per 100.	31% means $\frac{31}{100}$
2. Finding 10%	To find 10%, divide by 10	10% of £38 = 38÷10=£3.60
3. Finding 1%	To find 1%, divide by 100	1% of £8 = 8÷100 = £0.08
4. Percentage Change	$rac{Difference}{Original} imes 100\%$	A games console is bought for £200 and sold for £250.
		% change = $\frac{50}{200} \times 100 = 25\%$
5. Fractions to Decimals	Divide the numerator by the denominator using the bus stop method.	$\frac{3}{8} = 3 \div 8 = 0.375$
6. Decimals to Fractions	Write as a fraction over 10, 100 or 1000 and simplify.	$0.36 = \frac{36}{100} = \frac{9}{25}$
7. Percentages to Decimals	Divide by 100	8% = 8 ÷ 100 = 0.08
8. Decimals to Percentages	Multiply by 100	$0.4 = 0.4 \times 100\% = 40\%$
9. Fractions to Percentages	Percentage is just a fraction out of 100. Make the denominator 100 using equivalent fractions. When the denominator doesn't go in to 100, use a	$\frac{3}{25} = \frac{12}{100} = 12\%$ $\frac{9}{100} \times 100 = 52.9\%$
10. Percentages to Fractions	Percentage is just a fraction out of 100. Write the percentage over 100 and simplify.	17 $14\% = \frac{14}{100} = \frac{7}{50}$ Ple



Please use QR codes to support knowledge.



Topic/Skill	Definition/Tips	Example
1. Coordinates	Written in pairs . The first term is the x - coordinate (movement across). The second term is the y - coordinate (movement up or down)	A: (4,7) B: (-6,-3) B: (-6,-3) B: (-6,-3)
2. Midpoint of	Method 1: add the x coordinates and	Find the midpoint between (2,1) and
a Line	divide by 2, add the y coordinates and divide by 2	(6,9)
		$\frac{2+6}{2} = 4$ and $\frac{1+9}{2} = 5$
	Method 2: Sketch the line and find the	2 2
	values half way between the two x and two y values.	So, the midpoint is (4,5)
Linear	Straight line graph.	Example:
Graph	The general equation of a linear graph is y = mx + c	Other examples: x = y y = 4
	where m is the gradient and c is the y- intercept.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	The equation of a linear graph can contain an x-term , a y-term and a number .	y + x = 10 2y - 4x = 12
4. Plotting	Method 1: Table of Values	x =3 =2 =1 0 1 2 3
Linear Graphs	Construct a table of values to calculate	
	coordinates.	y=x+3 0 1 2 3 4 5 6



Please use QR codes to support knowledge.



Year 7 RS: Why is Christianity the way it is?

Key words					
Prayer	Communicating with God.				
Meditation	To think quietly, connecting the mind and soul with the divine.				
Hymns	A religious song that gives praise and worship to God.				
Psalms	A book in the Old Testament that contains songs of praise and worship.				
Bible	The holy book for Christians. It has 66 books split into 2 sections. The Old Testament has 39 books and the New Testament has 27 books.				
Mary	The mother of Jesus.				
Resurrection	The belief that Jesus rose from the dead after he was crucified.				
\$in	Going against the laws of God.				
Mercy	Showing compassion or kindness.				

There are many different kinds of prayer, including:

- <u>Adoration</u> praising God for his greatness and admitting dependence on him
- <u>Confession</u> owning up to sin and asking for God's mercy and forgiveness
- <u>Thanksgiving</u> thanking God for his many blessings, e.g. health or children
- <u>Petition</u> asking God for something, e.g. healing, courage or wisdom
- <u>Intercession</u> asking God to help others who need it, e.g. the sick, poor, those suffering in war

What do Christians believe?

Christianity is focused on the life and teachings of Jesus Christ, who Christians believe to be the Son of God. Jesus was born in Bethlehem in the Middle East over 2,000 years ago.

Christians believe there is only one God, but that he is revealed in three different forms:

- God the Father
- God the Son
- The Holy Spirit

Christians model themselves on the life and teachings of Jesus Christ. Jesus taught people to love God and love their neighbour. Christians believe that God sent Jesus to live as a human being in order to save humanity from the consequences of its sins – the bad things humanity had chosen to do which had separated them from God. Christians believe that through the death and resurrection of Jesus this broken relationship with God is restored.

The Christian holy book is the Bible. It is divided into the Old and New Testaments.

The New Testament explains how God sent his only son, Jesus Christ, to restore the broken relationship between people and God which had been caused by human wrong-doing.



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Different Christian denominations worship in different ways:

Anglicans, Roman

Catholics and Orthodox Christians have a set form of worship. It is a formal ritual based around the sacraments. particularly Holy Communion. This type of worship is called liturgical worship.

Other Christian churches practise nonliturgical worship,

e.g. Baptists and Quakers. This kind of worship has no set form and often does not involve Holy Communion. It is usually centred on Bible readings, a sermon, music and prayers. It can be structured or unstructured and spontaneous.

Whatever style of worship is used, most Christians believe it is important to come together to share acts of devotion and honour to God.

Public worship helps Christians to achieve a deeper understanding of the Bible, the life of Jesus and Christian teachings. It also enables those who receive Holy Communion to welcome Jesus into their hearts.

Where do Christians worship?

Many Christians worship in churches. Some groups meet in homes and other buildings. 'Church' means the gathering of Christians as well as the building in which Christians worship. Their leaders are called priests or ministers.

Many churches hold a service called Communion, Eucharist or Mass, in which bread and wine are shared together, just as Jesus did with his followers before his death.

Worship is about giving worth to something. Christians worship God in order to thank him for his love, ask for forgiveness for their sins and to try to understand what God wants from them

Worship is an essential part of a Christian's faith. Christians worship God to thank him for his love, ask for forgiveness for their sins and try to understand his 'will' for them.

Public worship with other Christians usually takes place in

a church, chapel or cathedral. The word 'church' can mean different things:

'The' church is the whole community of Christians, the people of God, also called the 'body of Christ'.

'A' church is a building in which worship takes place.

Private worship gives Christians a chance to spend time alone with God. Prayer, meditation, Bible study and singing hymns may all be done at home. Christians can unite themselves with the Church of God as they pray while not actually going to a physical church. Some Christians belong to the 'house church' movement and meet for worship in each other's homes.



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Year 7 Knowledge Organiser Music

Duration	How	/ long a no	ote lasts f	or						
Pitch	How	high or lo	ow a note	e is						
Tempo	How	fast or slo	ow a note	e is		Ο	0			
Dynamics	How l	oud or qu is	iet the m	usic	Sei	nibreve	Minim	Crotchet	Quaver	Sem
Timbre	ττ	ne quality	of sound				accidentals			
Texture	How th	hick or thi	n the mu	sic is						_
Structure	How are lai	the sectio d out e.g. etc	ons of mu chorus, v	isic erse			sharp	flat	natural	
Silence	Wher	n the instr playi	uments s ng	top			© Brandy Kraemer			
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Year 7 Knowledge Organiser Music



Strings	Violin, Viola, Cello, Double Bass, Guitar, Harp, Ukulele, Banjo				
Brass	Trumpet, Trombone, Tuba, Cornet, French Horn, Euphonium, Sousaphone				
Woodwind	Flute, Piccolo, Clarinet, Oboe, Bassoon, Recorder, Saxophone				
Percussion	Drums, Timpani, Cymbals, Djembes, Cajons, Xylophone, Glockenspiel, Maracas, Claves, Snare Drum, Bass Drum				





Fanfares

✓ Fanfares are usually played by brass (trumpet, trombone, tuba, cornet, French horn) and percussion (bass drum, snare drum) instruments because they are the loudest

✓ Fanfares are musical introductions to important events like a royal entrance, a sports game or even the beginning of a film!

✓ Fanfares use the notes of a major triad (3 or 4 in total) and use a variety of different rhythms

✓ The time signature is always in 4/4

British Folk Music

- ✓ British folk music began in medieval times but is still played today having been passed through generations
- ✓ The music is usually inspired by nature and is played at social events like weddings and parties
- ✓ Songs are played at a fast tempo and use instruments like violin, accordion, drums and flutes
- ✓ Songs use melody and accompaniment i.e. there is a main tune but there are chords underneath to support the tune
- ✓ They can also use key signature changes which involve sharps, flats and natural notes



Going the extra mile activities. Here are some great ideas to do with family to avoid boredom that go above and beyond during the next half term.

The Arts	IT	DT	English and Drama	Humanities	PE	Maths	Science
Create a realistic drawing of an apple. Create a tonal grid, show correct shape and proportion. Include a cast shadow.	Create an online resource that helps an elderly person get on line and use social applications for the first time.	Research what the difference between hard and soft woods is. What trees grow them and what do carpenters use them for?	Watch one of the briefings by the government. What makes a good information giving speech?	How is living in Norfolk special? Compare your lifestyle with others in Lima, Kazakhstan and Calcutta.	Invent a new sport.	What are the first 10 Fibonacci numbers?	What is potable water?
Build a puppet theatre using cardboard and sock puppets/characte rs stuck on to pencils. Record a play to share with family.	Now give them advice on social media conventions, use of gifs and emojis. Make it amusing and try it out!	How can you save money shopping for food (under normal circumstances)? Create a handy guide for a novice shopper.	Create a hero. What are the characteristics? Are they real? What stories would we find your hero in? It might be great to find a real one in your family!	England was divided up into 7 Saxon kingdoms. Create a podcast describing what life would have been like at this time if you had lived then.	Create a set of rules.	What is the golden ratio? This calls for a song. Can you create a song about the golden ratio?	How can we use ultrasound to monitor pregnancies?
Research the legend of St George and the Dragon. Look at the art work. Create a piece of performance art.	Coding: Send a message using the following; sign language, ASCII, semaphore, and programme Python Turtle to draw it	Can you make a model of a Norwich landmark? Use any material to hand.	Write a newspaper article about a spy e.g. James Bond. Try to write their obituary.	What happened to the Colony of Roanoke? Create a presentation to explain as an archaeologist what would you expect to find and where.	Get family members to play.	Make some mathematical art using materials at home like packets and boxes.	If you have the materials to spare try to do an experiment. Write it up explaining what you found out.
Choose 3 songs. Learn to sing them. What do the words mean to you?	Get a family member learning a language using Memrise or Quizlet.	Invent a new recipe and test it.	Watch a film. Be a film critic. You are being interviewed to review the film on radio 1. What would you say?	Imagine how Europe's history would have been different if there had been no monarchy. Write a new constitution.	Send it to the organisers of the Quarantine Olympics to include it in the next games!	What is Pascal's triangle?	Find out how alcohol effects young people.