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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.



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	23
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PE	17	Maths	35
Science	20	RE	39
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		Some DARES	54



strip.

Write a story or comic





Plan a lesson

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

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Materials / Techniques to be explored:

Perspective drawing, mixed media painting, Dot painting,

One and Two-point Perspective Year 7 Art

Perspective

* Perspective is a drawing method that shows how objects appear to get smaller as they get further away:

* Objects are drawn disappearing towards Vanishing Points';

* Vanishing Points are located on a "Horizon Line" (or 'Eye Level Line'). This is an imaginary line, level with the viewer's eyes:

* Objects drawn above the eye level line appear as if you are looking up at them: those below the eye level line appear as though you are looking down upon them.

ONE POINT PERSECTME

* Lines converge towards one vanishing point:

* Generally used when looking down something long, like a road or

corridor: * Front and back face of the object appear 'flat' or 'front on':

* Sides, top and bottom of objects converge towards vanishing points.



TWO POINT PERSECTIVE

* Two vanishing points are used, both located on the Horizon Line:

All lines (except curving or irregular lines) are drawn as either vertical, or going towards the vanishing points;
 This is a very realistic drawing method.





One Point Perspective Use the vanishing point in the center to create 3D forms





	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			C	0	
	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.

	1	Media		The subs to make a	tance that an artist use art	(2) Pencil	
		Materia	ls	The same refer to t	e as media but can also he basis of the art work		Biro	
				eg, canva	is, paper, clay		Pastel (chalk/oil)	
		Techniq	ues	The meth art work,	nod used to complete the can be generic such as		Coloured pencil	0
				blending	or more focus such as		Acrylic paint	
		Processe	25	The meth artwork t	nod used to create that usually follows a		Watercolour	
				range of a one skill	steps rather than just		Gouache	A See
3		ur Theory			tertiary primary lertian		Pressprint	
	Prima RED, Y	ary= YELLOW,	Complimen Colours opp	itary; osite on the	Less primary second	22	Monoprint	
	BLUE	ndary=	colour whee Harmoniou	l Is; Colours	primary primary	tertiary	Collograph	
	Tertia	ary+Primary	wheel Monochror	other on the	secondary		Card construction	
	Secon ry	ndary+Prima	shades, tor of one colo	nes & tints ur	tertiary secondary tertiary		Wire	
	Shad black	es – add	Hue – the p	pigment			Clay	
	Tint - white	- add e	Warm; RED YELLOW.	, ORANGE			Batik	
			PURPLE	, UNLLIN,			Silk painting	

000
B

The basic tool for drawing, can be used for linear

Drawings can be completed in biro and shaded

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

smoothly, chalk pastels give a lighter effect

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

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>

(3)

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



	5	. A
H	#	1 M
E	7	
F	-	

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

0 //////

Art Key Stage 3

Year 7 STEM – Summer Term Part 1

Engineering



- A bridge is a structure that allows people and vehicles to cross over an open space.
- Bridges span, or stretch across, deep pits in the earth, bodies of water, and roads.





Stem will encourage you to use your knowledge of Science, technology, engineering and maths to explore ideas, materials and themes.



In addition to subject-specific learning, STEM aims to foster inquiring minds, logical reasoning, and team building skills.

Look at these links to help you understand how bridges work and how they are built: https://voutu.be/Pp9U6lyolgg



SPAGHETTI BRIDGES

The brief Construct a free standing bridge out of spaghetti, strong enough to support a 1/2lb bag of sugar. The method Think about bracing strands together for strength Some shapes are better at absorbing loads – triangles are particularly strong. Rubber bands

or bog ties 1/2lb bag of sugar make for good junctions.

ENGINEERING 03

Materials

Spaghetti

Top tip Be patient. Through trial and error, you'll become proficient at working with spaghetti



Geometry and Trigonometry		
areas of		
Triangle	base x ½ height	
Rectangle	length x width	
Circle	πr ²	
Volume		
cubes	A x A x A or A ³	
Cone	<u>πr²h</u> 3	
Sphere	$\frac{4}{3}$ πr^3	
cylinder	$\pi r^2 h$ or pi x radius ² x height	
Circle Circumference	2πr or πd	



The shape of a structure affects how strong it is. Rectangles, arches, and triangles are the most common shape

Drag the slider up and down to add and remove weight

How can you build a strong bridge? What shapes make a strong structure?

Self-Study Tasks

Define continuous production?	
What is tessellation?	
What is a vanishing point?	
What is a prototype?	
What is the unit for power?	
What is the correct name for a third angle projection?	
What is the 'mean'?	
If the ratio is 1:3 what is the missing number 400:?	

Write down the steps for the process of making a jam sandwich, then use the written steps to create a flowchart.	
What could you use a computer to control inside your home? Invent a new automated device for your home. Create a flowchart using the correct symbols to represent how it works.	
Find out the flowchart symbols for: -A delay -A subroutine -Storing data	



<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 -1 bacteria growing - the dormant Freezing generally ext life and the nutrients It doesn't kill the bact They become active ag the food defrosts. 	.8°C stops y become ends shelf aren't lost eria though jain once
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 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

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.

Skills Slicing Dicing



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.

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

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.



Year 8 Knowledge Organiser — Physical Education (Summer 1

Athletics

Skill	Description
Running	An action to move euickly with the correct technieue using the major muscle groups in the arms and legs as effectively as possible.
Throwing	The ability to propel an object through the air as far as possible.
Jumping	The technique to propel your body into the air to either cover distance, height or both.

Athletics consists of three main skills. Running, jumping and throwing.









Task 1: Complete the sentences using the missing words.

The 2020 and Games, due to be held in However, these were postponed until 2021. The Olympic flag consists of which represent a colour from every nations flag and the five major

The first modern Olympics were held in 1896 in

Paralympic, 5 rings, Olympics, Tokyo, Continents, Athens

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Task 2: This is Adam Gemili, a British sprinter. He is the 2014 European champion at 200 metres and 4 x 100 metres relay, as well as being part of the Great Britain team that won gold in the 2017 World Championships in the same event.

Using your understanding of the physical and skill related components of fitness, write a short paragraph on which components of fitness Adam will use when competing in the sprinting events? In addition, explain why you feel he would need these components to be successful.

GIRLS	100m	200m	800m	1500m	High Jump	Long Jump	Triple Jump	Shot	Javelin	Discus
GOLD	14.7s	31.0s	2m 55s	6m 10s	1.25m	3.90m		6.80m	17.00m	17.00m
SILVER	16.0s	35.0s	3m 20s	7m 26s	1.12m	3.50m		5.70m	14.00m	13.00m
BRONZE	18.0s	38.0s	4m 10s	9m 00s	0.90m	2.80m		4.60m	9.00m	9.00m
воуз	100m	200m	800m	1500m	High Jump	Long Jump	Triple Jump	Shot	Javelin	Discus
GOLD	13.4s	28.0s	2m 38s	5m 25s	1.40m	4.40m	9.70m	8.60m	26.00m	22.00m
SILVER	15.0s	31.6s	3m 05s	6m 15s	1.24m	3.80m	8.50m	6.80m	19.00m	17.00m
BRONZE	17.5s	37.0s	3m 40s	7m 10s	1.00m	3.00m	6.40m	4.80m	12.00m	12.00m



GIRLS	100m	200m	800m	1500m	High Jump	Long Jump	Triple Jump	Shot	Javelin	Discus
GOLD	14.7s	31.0s	2m 55s	6m 10s	1.25m	3.90m		6.80m	17.00m	17.00m
SILVER	16.0s	35.0s	3m 20s	7m 26s	1.12m	3.50m		5.70m	14.00m	13.00m
BRONZE	18.0s	38.0s	4m 10s	9m 00s	0.90m	2.80m		4.60m	9.00m	9.00m
воуз	100m	200m	800m	1500m	High Jump	Long Jump	Triple Jump	Shot	Javelin	Discus
GOLD	13.4s	28.0s	2m 38s	5m 25s	1.40m	4.40m	9.70m	8.60m	26.00m	22.00m
SILVER	15.0s	31.65	3m 05s	6m 15s	1.24m	3.80m	8.50m	6.80m	19.00m	17.00m
BRONZE	17.5s	37.0s	3m 40s	7m 10s	1.00m	3.00m	6.40m	4.80m	12.00m	12.00m

Task 3: When competing in PE lessons, you will be aiming to achieve the Gold, Silver or Bronze standards for each event. Use the grid to record your time, height and distance, then compare these with the standards for each medal.

	100m	200m	800m	1500m	High Jump	Long Jump	Triple Jump	Shot	Javelin	Discus	100m	200m
MY SCORES												

All the different elements are arranged in a Chemical chart called the periodic table. A Russian osnacademu scientist called Dmitri Mendeleev produced one of the first practical periodic tables in the 19th century. The modern periodic table is based reactions closely on the ideas he used: 1 2 3 4 Structure of the Atom Electron An atom is made up of three subatomic particles: protons, electrons and neutrons. Li Be н Proton Na Mg Protons and neutrons are found in the nucleus of the Ca Sc Ti V Cr Mn Fe Co Ni Cu Zn Ga Ge As ĸ atom (in the centre). Neutron Zr Nb Mo Tc Ru Rh Pd Ag Cd In Sn Sb Te Rb Sr

- Electrons are found orbiting the nucleus in shells (also known as energy levels). Protons have a positive charge.
- Electrons have a negative charge.
- Neutrons have a no charge.

Chemical reactions

Atoms

Everything is made from atoms, including you. Atoms are tiny particles that are far too small to see, even with a microscope. If people were the same size as atoms, the entire population of the world would fit into a box about a thousandth of a millimetre across.

react together are called the reactants

are formed in the reaction are called the products



Chemical equations

The changes in chemical reactions can be modelled using equations. In general, you write:

reactants \rightarrow products The reactants are shown on the left of the arrow, and the products are shown on the right of the arrow. Do not write an equals sign instead of an arrow. If there is more than one reactant or product, they are separated by a plus sign.

Non-metals

Ba La Hf Ta W Re Os Ir Pt Au Hg TL Pb Bi Po At Rn

5 6

0

7 0

F. Ne

He

Ar

I Xe

Word equations

A word equation shows the names of each substance involved in a reaction, and must not include any chemical symbols or formulae. For example:

iron + sulphur \rightarrow iron sulphide

Cs

Fr Ra Ac

Metals

In this reaction, iron and sulphur are the reactants, and iron sulphide is the product.

No atoms are created or destroyed in a chemical reaction. This means that
the total mass of the reactants is the same as the total mass of the
products. We say that mass is conserved in a chemical reaction.

Atoms are rearranged in a chemical reaction. The substances that:

	+		Iron sulfide, the compound formed in the reaction, has different properties to the elements from what it is made.	Compounds A <u>compound</u> is a substance that contains atoms of two or more different elements, and these atoms are chemically joined together. For example, water is a compound of hydrogen and oxygen. Each
Iron	Sulfur	Iron sulfide		atoms and one oxygen atom. There are very many different compounds.



Chemical reactions

concentration of reactant

Chemical Reactions

Temperature

Concentration

Surface area

Pressure (of gases)

Chemical reactions occur when particles collide with en ENERGY. The minimum amount of energy particles nee react when colliding is called the ACTIVATION ENER

Increasing temperature increases the speed of the part (because they gain kinetic energy) so they collide succ fully more often and with more energy. This increases rate of reaction.

Increasing the pressure of gases brings the particles cl together so they collide successfully more often. This creases the rate of reaction.

Increasing the concentration of reactants increases the number of particles, so they collide successfully more This increases the rate of reaction.

Increasing the surface area of a SOLID (you cannot ch the surface area of a liquid or gas) increases the number successful collisions. This increases the rate of reaction

Factors affecting the rate of reaction

	1	occur when reactant particles collide
r when particles collide with enough amount of energy particles need to called the ACTIVATION ENERGY. ncreases the speed of the particles ic energy) so they collide success- th more energy. This increases the of gases brings the particles closer successfully more often. This in- tion.	steep slope = no slope = no reaction shallow slope = slower reaction	The rate of a reaction depends on two things: the frequency of collisions between particles. The more often particles collide, the more likely they are to react. the energy with which particles collide. If particles collide with less energy than the activation energy, they will not react.
of reaction.	time (min)	
rea of a SOLID (you cannot change auid or gas) increases the number of is increases the rate of reaction.	You may be presented with graphs what they show. 'Describe' means graph— Quote them where appropria	like these ones.You need to be able to describe say what you see. If numbers are given in the te.
fecting the rate of reaction	Time of reaction	
The higher the temperature, the quicker the rate of reaction.	As temperature increases so does finish faster at higher temperatures faster at 100oC, so it levels off so	s rate of reaction. This means that reactions s, as the graph shows—the reactant is used up ooner.
The higher the concentration, the quicker the rate of reaction.	MCAT-Review.org As temperature increases, rate o As temperature continues to incr Eventually the rate of reaction l	f reaction increases very quickly. ease the rate of reaction increases more slowly. evels–off.
The larger the surface area of a reactant solid, the quicker the rate of reaction.	Temperature The rate is proportional to the concentration the concentration	n are directly proportional—as one doubles, the
When gases react, the higher the pressure upon them, the quicker the rate of reaction.	other doubles	

Collision Theory: chemical reactions

Knowledge Organiser: Year 7 Summer 2 Understanding computers and binary

Summary

Binary, is a number system that is made of two numbers. 1 and 0. Also known as base two.

Computers are made up of switches. If you turn on a light switch at home, a computer scientist would say that the light is 1. If you turned it off, a computer scientist would say that the light is 0. A typical computer has billions of switches. That's a million million switches. Another name for a switch is transist or.

Computer scientists love binary. Why? In simple terms, a computer is just switches. If we understand Yes/No questions we can code a computer to do what we want it to do. This is a form of

'Computational thinking'.

Imagine a billion people standing by their own light switch and working as a team to make a mobile phone respond to text message. To get close to moder n computer/smart phone speeds each person would have to turn the switch at the same time and have to do this 4,000,000,000 in one second. All of actions in life are based on a number of binary decisions.

What is a computer? A computer can be instructed to accept, process, store and output data. That could be a phone, a washing machine, a tablet, a TV or even the humble PC (personal computer).

Storage-stores programs and files long term, even when they are not in use. Devices such as hard drives, USB memory sticks or SD cards are used to store files such as photos, music and software applications long term.

An input device is any piece of computer hardware used to provide data to a computer system.

An output device is any piece of computer hardware used to communicate the results of data to audience.

	A	Swit	ch			
A	\square		~		A	B
	V		0	0		
_	The /	NOTg	afie			
Bin	arya	and	Dec	imal		81
					IAN2A	91
					Le	vel 1
1	0	1	0	1	Le	rvel 1
1	00	1	00	1	1960 T	rvel 1 e nomeros 4
1 0 1	001	101	000	101	1801	evel 1 4 7 0
1 0 1	0010	1010	0001	1010	100 T	evel 1 4 7 0 5 3

Input / O uput and storge devices



Key Vocabu	lary		
Binary	1 or 0.Also known as base 2.		
Computer	A hard ware device made up of switches. A switch can have a state of 1 or 0.		
Computation- al thinking	Methods that involve expressing problems and their solutions in ways that a computer could solve.		
Switch	a device for making and breaking the connection in an electric circuit		
Decimal	Base 10 also known as denary. Symbols include up of 0 1 2 3 4 5 6 7 8 and 9.		
Hardw are	The physical parts of a computer. Eg the touchscreen,		
Input Device	Hardware that sends data to a computer, allow- ing you to interact with and control it.		
Output Device	Hardware which converts information into hu- man-read able form. It can be text, graphics, tactile, audio, and video.		
Storage Device	Hardware on which information can be stored		
Bt	A binary digit 1 or 0.		
Bytes	A collection of 8 bits		



BBG Bitesize

KEEP

CALM

GO PRACTICE





Topics covered

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

Designed by KMU for Open Academy 2019

Year 7 Knowledge Organiser: Settlements



Key Ideas:

- 1. I can describe settlement characteristics (area size, population, services)
- 2. I can describe settlement site factors (where people choose to live)
- 3. I can describe settlements that can grow (due to migration/birth rates) into mega-cities
- 4. I can describe some settlement locations in the Middle East
- 5. I can explain why some settlement locations are more dangerous than others

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
 Designing using MSOffice

Places and Environments

- ✤ Norwich
- London
- ✤ Rio de Janeiro
- ✤ Maldives
- ✤ Las Vegas
- ✤ Damascus
- Dubai

Key Terms Used in this Unit

- □ Site factors
- Aspect
- \square Raw materials
- \Box Population
- 🗆 Terrain
- Springs
- □ Bridging point
- □ Route centre
- Services
- Administration
- Residential
- 🗆 Industrial
- Migration
- Employment
- Oasis
- Arid
- Xeriscaping
- 🗆 Sustainable
- Democracy
- Civil War



Topics covered

- ✓ China vs Russia facts
- China vs Russia physical geography
- China vs Russia human geography
- ✓ Traditional China vs Russia
- ✓ Changing China vs Russia
- ✓ Future China vs Russia



Year 7 Knowledge Organiser: Asia's Superpowers – China vs Russia



Key Ideas:

- 1. I can describe the locations of China and Russia and their neighbouring countries
- 2. I can describe and contrast the physical landscapes of China and Russia
- 3. I can describe the locations of major cities in China and Russia
- 4. I can explain how and why population has changed over time in two countries of the world
- 5. I can assess how China and Russia are changing in similar and differing ways for the future

Skills

- \square To research amazing facts using ICT
- □ To use mapping to investigate features
- $\hfill\square$ To understand different opinions and
- viewpoints
- □ To write a detailed piece of extended writing
- □ To draw/label line graphs
- □ To use ICT/MS Office to present to my class

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Places and Environments

- Beijing
- Shanghai
- ✤ Hong Kong
- Plateau of Tibet
- ✤ Himalayas
- ✤ Yangtze River
- Tiber river
- Moscow
- Lake Baykal
- Kamchatka
- Siberia
- Baltic States
- Caspian Sea
- ✤ Aral Sea
- ✤ Black Sea

Key Terms Used in this Unit

- □ Province
- □ Beijing
- Shanghai
- Shenzhen
- □ Hong Kong
- □ Plateau of Tibet
- 🗆 Himalayas
- □ Yangtze River
- 🗆 Climate
- □ Population
- Provinces
- **Communism**
- □ One Child Policy
- Investment
- Economic growth
- □ Standard of Living
- Exports
- Technology



German

<u>Module 3: Freizeit – juhu! (Free time – yippy!)</u>

Here is the vocabulary you will need for Module 3.

Remember, you can hear the German pronunciation by clicking on the 'Listen' links next to the loudspeakers.

Bist du sportlich? • Are you sporty?

Ich bin (sehr/ziemlich/ I am (very/quite/not very) nicht sehr) sportlich. sporty. Was spielst du? What do you play? Ich spiele ... I play Ich spiele gern ... Hike playing ... Ich spiele ziemlich gern ... I quite like playing __ Ich spiele nicht gern ... I don't like playing ... Badminton badminton Basketball basketball Eishockey ice hockey Fußball football Handball handball Tennis tennis Tischtennis table tennis Volleyball volleyball Wasserball water polo



Listen

In this Module you will learn how to:

- talk about which sports you play
- talk about leisure activities
- talk about how often you do activities
- talk about mobiles and computers
- develop prediction strategies. •

www.textivate.com Username: openacademy Password: surname700 Go to 'my resourses' to find your work.

Keep practising your German vocabulary on <u>www.quizlet.com</u>

• Either:

click on this link: <u>https://auizlet.com/_8ievl8?x=1aat&i=25a2il</u>

• Or:

use your class link to go directly to your Quizlet class.



Was machst du gern?

• What do you like doing?

I ski.

Iswim.

I dance.

annoying

awful

deadly boring

I watch TV.

Was machst du gern? Ich fahre Rad. Ich fahre Skateboard. Ich fahre Ski. Ich fahre Snowboard. Ich lese. Ich mache Judo. Ich mache Karate. Ich reite. Ich schwimme. Ich sehe fern. Ich spiele Gitarre. I play the guitar. Ich tanze.

I ride my bike. I go skateboarding. Isnowboard. Tread. I do judo. I do karate. I go horse riding.

What do you like doing?

German vocabulary. Listen

Read the Strategy Box

for ideas on learning

Wie findest du das? . What do you think of it?

nervig

furchtbar

stinklangweilig

Ich finde es ... I think it's Es ist ... /t's irre amazing super super toll great cool cool gut good nicht schlecht not bad okay okay langweilig boring

Listen

5



Was machst du in deiner Freizeit?

What do you do in your free time?

Ich chille. I chill out. Ich esse Pizza oder l eat pizza or hamburgers. Hamburger. Ich gehe einkaufen. I go shopping. Ich gehe ins Kino. I go to the cinema. Ich gehe in den Park. I go to the park. Ich gehe in die Stadt. I go into town. Ich höre Musik. I listen to music. Ich mache Sport. I do sport. Ich spiele Xbox oder Wii. I play Xbox or on the Wii.



Listen

Strategie 3

Oft benutzte Wörter

High-frequency words are words that come up again and again, no matter what you are talking about. All of the Wörter pages have a list of these words, but there are many more. Look back through Chapter 3 and see how many you can find. Here are a few to get you started:

der, die, das, ein, eine, einen, und, aber, in, ich, es

appear in every chapter in Stimmt/1. Can you predict which they are? Look through the book. Were you right?

gibt, gern, ... You will find that some of these words



Was machst du am Computer?	What do you do on the computer?
Was machst du auf deinem Handy?	What do you do on your mobile?
Ich chatte mit Freunden auf Facebook.	I chat with friends on Facebook
Ich lade Musik herunter.	l download music.
Ich mache Fotos oder Filme.	l take photos or make films.
Ich sehe Videos.	I watch videos.
Ich simse.	I text.
Ich spiele Computerspiele.	I play computer games.
Ich suche und lese Infos für die Hausaufgaben.	l look for and read information for my homework.
Ich surfe im Internet.	I surf the internet.
Ich telefoniere mit Freunden.	I call my friends.
Ich mache ziemlich viel auf meinem Handy.	I do quite a lot of things or my mobile.



Listen

0	• High-frequency words							
1	Wie oft?	How often?						
	(sehr/ziemlich/nicht so) oft	(very/quite/not so) often						
	einmal/zweimal/dreimal pro Woche/pro Monat	once/twice/three times a week/a month						
	jeden Tag	every day						
	jeden Morgen	every morning						
	manchmal	sometimes						
	immer	always						
	nie	never						
	Wann?	When?						
	am Wochenende	at the weekend						
	am Abend	in the evening						
	heute	today						
	morgen	tomorrow						
	am Montag	on Monday						
	nächste Woche	next week						
	in zwei Wochen	in two weeks						



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.





The Tudors

The Tudors were a family who ruled England between 1483 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 13, 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.



Stanza

Rhyme

Rhythm

Speaker Tone

Inference

Explicit

Implicit

Method

feature

Technique

Pace

Vocabulary /terms to	Structure • Zoom in/out	Language analysis Checklist:	Literary devices and word class			
learn: Syllable Alliteration	 Repetition of an image/idea Links and connections between paragraphs Shifts: 	 Link to task Relevant cuote Meaning of cuote Mothod named 	 Metaphor - a literal comparison - she was a monster Personification - human qualities - the grass danced in the wind Simile - as/like/as if - he was like a man possessed Onomatopoeia - the sound words - bang, pop, sizzle 			
Simile Metaphor Porconification	vice versa) - focus - timo	 Effects explained Word zoomed in 	 Attreation – same starting sounds – really rather raucous Verbs – doing words Adjectives – describing words 			
Onomatopoeia	– topic	on	 Nouns — objects or abstract things e.g. love 			

- mystery

Recommended Reading

POEMS

JFE BY

Useful link

https://www.bbc.co.uk/bitesize/topics/zmbj382

This link will take you to 4 learner guides that will help you to understand rhythm and form.







dialogue (and vice

versa)

setting/place

- description to

mood/atmosphere

- Meaning of word Implied meanings
- Adverbs describe doing words e.g. wrote neatly
- connotations of words associations night-time =

Tasks

- How do you feel about poetry? Write your thoughts as they come into your head, without worrying about paragraphs or punctuation. Now look at the words you have used and the feelings you have expressed. Poetry is all about expression. So, you might say, you just wrote a poem!
- Read the poem on the next page. What do you think the feelings of the person being described might be? What makes you think this? Jot down key words and phrases.
- 3. Read the poem on the subsequent (next) page. How does the poet feel about nature? What words and phrases tell you this? <u>Aim higher how does the poet use literary devices (check the literary devices box on the first page to help you identify these) to create meaning and effect?</u>
- 4. Read the poem entitled 'Russian Doll'. Do you think this poem is only about a Russian doll? Do you think the Russian doll could be being used as a metaphor to describe a real person? Explain your thoughts and ideas, using auotes from the poem to support them.
- 5. Using your knowledge of literary devices and structure gained from reading the 3 poems and completing the first 4 tasks, write your own poem. You could write a poem about identity like the poet does in 'Seeker', or a poem about nature, like Byron's 'There is a Pleasure in the Pathless Woods', or you could write an extended metaphor like 'The Russian Doll' to convey your emotions or the emotions of a made-up person that will be the 'speaker' of your poem.



Seeker

Eyes as wide as continents brim with the water between. Seeks a different future. Looks back on what has been.

Mouth seeks another language. Shapes a different air. Unfamiliar classroom words. The other, whispered prayer.

Heart seeks home. One it left and one it took along. Echoes in the distance. Skips to a playground song.





Russian Doll

All you see is outside me: my painted smile, the rosy-posy shell, the fluttery eyes. A butter-won't-melt-in-my-mouth-type me

But inside there's another me, bored till playtime. The wasting paper, daytime dreamer. A can't-be-bothered-sort-of me.

And inside there's another me, full of cheek. The quick, slick joker with a poking tongue. A class-clown-funny-one-of me

And inside there's another me who's smaller, scared. The scurrying, worrying, yes miss whisperer. A wouldn't-say-boo-to-a-goosey me

And inside there's another me, all cross and bothered. The scowling hot-head, stamping feet. A didn't-do-it-blameless me. And inside there's another me, forever jealous who never gets enough, compared. A grass-is-always-greener me.

And deepest down, kept secretly a tiny, solid skittle doll. The girl that hides inside of me.





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C

YEAR 7 — LINES AND ANGLES Constructing, measuring and using geometric notation







Scan here

YEAR 7 - LINES AND ANGLES Geometric reasoning

<u>What do I need to be able to do?</u>	Keywords
By the end of this unit you should be able to:	Vertically Opposite: angles formed when two or more straight lines cross at a point.
• Understand/use the sum of angles at a point	Interior Angles: angles inside the shape
• Understand/use the sum of angles on a straight	Sum: total, add all the interior angles together
line	Convex Quadrilateral: a four-sided polygon where every interior angle is less than 180°
• Understand/use equality of vertically opposite	Concare Quadrilateral: a four-sided polygon where one interior angle is less than 180°
 Understand use equality of vertically opposite angles Know and apply the sum of angles in a triangle Know and apply the sum of angles in a quadrilateral 	Polygon: Q 2D shape made with straight lines Scalene triangle: a triangle with all different sides and angles Isosceles triangle: a triangle with two angles the same size and two angles the same size Right-angled triangle: a triangle with a right angle



Scan here







Scan here



Scan here

 $\begin{array}{c|c} \hline Ongle \ Problems \\ \hline Ongle \ DEF = 51^{\circ} \ because it is a vertically opposite angle notation \\ \hline Ongle \ DEF = 51^{\circ} \ because it is a vertically opposite angle \ DEF = GEH \\ \hline Ongle \ DEF = 51^{\circ} \ because it is a vertically opposite angle \ DEF = GEH \\ \hline Ongle \ DEF = 51^{\circ} \ because it is a vertically opposite angle \ DEF = GEH \\ \hline Ongle \ DEF = 51^{\circ} \ because it is a vertically opposite angle \ DEF = GEH \\ \hline Ongle \ DEF = 51^{\circ} \ because it is a vertically \ opposite \ angle \ DEF = GEH \\ \hline Ongle \ DEF = 51^{\circ} \ because it is a vertically \ opposite \ angle \ DEF = 64.5^{\circ} \\ \hline Ongle \ DEF = 51^{\circ} \ because it is \ a vertically \ opposite \ angle \ DEF = 64.5^{\circ} \\ \hline Ongle \ DEF = 51^{\circ} \ DEF = 51^{\circ$

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.



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, Eucharistor 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.



open<mark>academy</mark>

Year 7 Knowledge Organiser Music

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G

Semiguaver

Duration	How	long a no	ote lasts f	or						
Pitch	How	high or lo	ow a note	is						
Tempo	How	fast or slo	ow a note	e is		Ο	0			6
Dynamics	How lo	oud or qui is	iet the m	usic	Ser	nibreve	Minim	Crotchet	Quaver	Sem
Timbre	Th	e quality	of sound				accidentals			
Texture	How th	iick or thii	n the mu	sic is						_
Structure	How t are laid	the sectio dout e.g. etc.	ons of mu chorus, v	isic erse			sharp	flat	natural	
Silence	When	the instru playir	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.