Name:



Year 9 Knowledge Organiser - Autumn 2



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.

The knowledge is evolutionary not revolutionary. Approximately half the knowledge is new and half helps you revise. Many of the activities are changing. We hope you enjoy them.

Subject	Page Number	Subject	Page Number
Multidisciplinary Lessons	3	Geography	24
Art	6	German	26
DT	9	History	30
Food	10	English	32
Recipes	11	Maths	35
PE	16	RE	39
Science	18	Music	41
Computer Science	23		

Idea Explanation

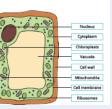
Make some flash cards or PowerPoint slides. Make top trumps.



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.

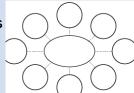
Plant Cell

Make a poster.



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!

Draw spider diagrams, or for the adventurous mind maps.



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.

Write a song or a rap.



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.



Plan a lesson

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.

Write a story or comic strip.



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.

Write a quiz. Design a game.



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.

ACCELERATED READER



Scan me to take a quiz





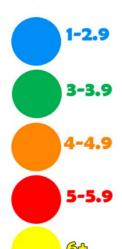
- 1. Go to the school website: www.open-academy.org.uk 2. Go to Student and then Learning Area
- 3. Scroll Down and Click on the Accelerated Reader logo 4. To log in:

Username: firstname.surname@open-academy.org.uk Password: Academy

*You can take a quiz on a computer, tablet or phone.

KEY TERMS

BOOK LEVELS



Book Level: A measurement of how difficult the book is.

ZPD: Your personal reading level that reflects a range of book levels. You should read books in your ZPD most of the time.

Points: Each book has a number of points available. A book is given points based on how difficult and how long it is. You earn points by passing quizzes on books you have read.

Star Reader: A reading assessment. We use Star Reader to find out your reading age and ZPD.

Accelerated Reader: A website that allows you to take guizzes on the books you have read.

Word Millionaire: A reward given to students who read one million words or more.

Taking an Accelerated Reader Quiz

The ultimate steps to achieving amazing Accelerated Reader results.



Choose a book within your ZPD



- Look at the cover
- Read the blurb
- Look for authors you like
- Read the introduction
- Read the first page



Read your book



3 Search for the quiz

- Go to your Renaissance Place and select Accelerated Reader, type in the book's quiz number and click Search
- You can find the guiz number on the AR label
- Select how you read this book
- Click Start Quiz



Take the quiz



Look at your TOPS Report

Reading practice 100% score TOPS Report This book was comfortable for Reading practice TOPS Report you, perhaps try a book higher up in your ZPD range next time

90% score

This book was perfect for you. Perhaps try one or two book levels higher or longer next time.

80% score

70% score

for you. Perhaps try a book at the beginning of your ZPD range

60% or below

This book was too challenging. Perhaps try a book at the beginning of your ZPD or speak to your teacher for help.

ACCELERATED READER: UNDERSTANDING YOUR TARGETS

Log in and look at the **Progress Tab** to check your targets and see your progress.

YOU HAVE 3 TARGETS EACH TERM

1. PERCENTAGE CORRECT:

This relates to your quiz scores. Read your book carefully and aim for high quiz scores to help meet this target.

2. POINTS:

You earn points when you pass quizzes. Read regularly (20 minutes a day) to reach your points target. Your points target is personal to you.

3. BOOK LEVEL:

Read and quiz within your recommended book level (ZPD) most of the time to reach this target.

Your Book Level target is personal to you.

To improve my Average Percent Correct:



To meet my Points Target:





- » Aspiration There are no barriers to your ambition
- » Leadership Live your own life
- » Teamwork Together we achieve more
- » Humility Put others first
- » Courage Handle your fear
- » Hard work We need to make the most of our talents
- » Respect Treat others as you would like to be treated yourself
- » Service It is better to give than to receive
- » Integrity Be true to yourself
- » Forgiveness Forgiveness is a friendship preserver
- » Thankfulness Appreciate others: appreciate what you have
- » Perseverance Never give up



Hard Work and Perseverance





'I beg you take courage; the brave soul can mend even disaster.' Catherine the Great 'Disturb us Lord, when we are too well pleased with ourselves'-the start of a prayer that could be explored, attributed to Sir Francis Drake, believed to have been written by him before setting sail from Portsmouth in 1577. The journey would lead to his knighthood and fame as the second person ever to circumnavigate the globe.

'Courage is not the absence of fear, but rather the assessment that something else is more important than fear.' Franklin D. Roosevelt

"May your choices reflect your hopes, not your fears." Nelson Mandela (This was explored by the Archbishop of Canterbury in the first National Assembly, broadcast on April 30th and it can be found and listed to again on the Oak National Academy site)





Have you ever been busy with work or a task and, having got through it all, then found the anti-climax afterwards even harder to deal with?

Following a dramatic confrontation with the prophets of Baal, Elijah found himself in a literal and spiritual wilderness. None of us are immune to bodily, emotional and spiritual tiredness. The threats of those who seek to do us harm, get to us. We feel negative about ourselves, about our circumstances, and about what might happen in the future. We get depressed. We doubt God, and feel that we have failed God. We might even feel that our lives are no longer worth living. Life seems both dark and hopeless. This is not about lack of faith.

Elijah's response is honest and leads him to meet with God not in dramatic events, but in a place of sheer silence (verse 12). However active and enthusiastic we may be in God's service, we all have our limits. When we reach these limits, are we able to encounter God in the silence to which they lead us?

Then he was afraid; he got up and fled for his life, and came to Beer-sheba, which belongs to Judah; he left his servant there. But he himself went a day's journey into the wilderness, and came and sat down under a solitary broom tree. He asked that he might die: 'It is enough; now, O Lord, take away my life, for I am no better than my ancestors.'

1 Kings 19: 3-4



We will be making enlarged drawings of these objects and Using different techniques on them.



The first big project we do in Year 9 is on Pop Art which is a style of Art that uses Items from popular culture as it's subject. See examples below:



What is POP ART?

"Whaam!!!" Roy Lichtenstein

"Marilyn" Andy Warhol





















common images

everyday

- Advertisements
- Consumer goods
- Celebrities
- Photographs
- Comic strips



Year 9 Design and Technology











These are the key principles of design we will be looking at this term when working in the Workshop. The project is to design and make a RECYCLED palette planter.

Key Questions?

- What is the function of a planter? Will it have any extra practical design features?
- What key aesthetics do you need to consider when designing? Will using recycled materials have an impact on the appearance?
- How will planning and measuring ensure your product is durable enough to work in outside weather conditions?

Aesthetics

Measurements

Word Bank

Material properties

Template Product
Analysis Recycling Selecting Refinement
Surface Treatments

Change of shape of various cross sections

twist

bow

crook

© 2000 Encyclopædia Britannica, Inc.

•Biodegradable materials - this includes food scraps, cotton, wool, wood and biodegradable plastics. Carbon emissions are minimal in the production of biodegradable plastics, but there is a risk of contamination when they are recycled.

•Less material or reduce waste techniques such as nesting can help to reduce waste, but it may not be possible to reduce or substitute materials and create a similar standard product

9





Belt Sander Metal File Tenon Saw

Special Diets Tips on how you can....

		_
	Definition	Foods they can't eat
Vegetarian	Someone who chooses to not eat any meat.	Meat, fish, poultry.
Vegan	Someone who doesn't eat any products derived from animals.	Meat, fish, poultry, dairy.
Lactose Intolerant	A digestive problem where the body can't digest lactose (milk sugars).	Milk, cheese, yogurt, chocolate, butter, icecream, cream.
Coeliac disease	Where the digestive system is sensitive to gluten and can't digest it.	Pasta, bread, noodles, pizza base, couscous, gluten.

Reduce the amount of sat fat	 Use less cheese and meat Cut the visible fat off meat and remove chicken skin Cook with oil and not butter
Reduce the amount of kcal	Cut down on energy dense foodsUse leaner cuts of meatSwap meat for beans and pulses
Lower the amount of salt	 Cut down on the amount of cheese Cut down on the amount of saturated fat Use a low fat stock cube Don't add salt to the dish Avoid using premade packs of seasoning
Increase the fibre content	Add beans and pulsesSwap to whole mealAdd more vegetablesKeep the skin on potatoes

Lactose is CARBOHYDRATE Gluten is PROTEIN

Key word	Definition	
Seasonal ingredients Foods that are available at certain times of the year, e.g. British-grown asparagus is only availa		
Sustainable	A sustainable process or material is one that can be used without causing permanent damage to the environment or using up finite resources.	
Food Miles	The distance a food product travels from where it's produced or grown to where it's sold/	
Organic foods	A more natural method of farming e.g. growing crops without artificial pesticides and fertilisers.	
Locally sourced foods	Items that have been purchased nearby from a farmer, fishmonger or any other fresh produce creator.	
Food Waste	Food loss and waste is food that is not eaten. Overall, around 1/3 of the worlds food is thrown away.	

Sausage Pasta

Ingredients (serves 2)

1 onion

1 carrot

1 stick of celery

4 sausages, (250g in total)

1 tsp dried oregano

Optional: dried chilli flakes

1 tsp dried rosemary

4 cloves of garlic

2 tablespoons balsamic vinegar

1 tin of chopped tomatoes

300 g dried penne

olive oil

Equipment

Grater

Fork

Bowl

Chopping board

Knife

Frying pan

Wooden spatula

Saucepan

Method

- 1. Fill up a pan half way with water and put on the hob to the boil. When the water is boiled add the pasta.
- 2. Finely chop the onion, celery and garlic. Grate the carrot.
- Heat up the oil in the pan and squeeze out the sausage meat from the skins. Add the oregano, rosemary and dried chilli flakes if using.
- Cook for 5 minutes and then add the chopped vegetables and garlic.
- 5. Add the can of chopped tomatoes, fill the can up half way with water and add to the mixture. Leave to simmer for 10 minutes. Stir through the balsamic vinegar.
- 6. When the pasta is cooked add to the sauce and mix thoroughly. Serve with grated parmesan.

You are welcome to follow this recipe, make a chilli con carne or a spaghetti Bolognese.

Mushroom and Parsley Risotto

Ingredients

One large white onion
Two celery sticks
1 garlic clove
15g butter
250g mixed mushrooms
½ pack of fresh parsley
1 vegetable stock cube
400ml boiling water
200g risotto rice
50g grated parmesan

- 1. Finely dice the onion, finely slice the celery and mince the garlic. Pick the parsley leaves off the stem and finely chop.
- 2. Soften the onion, garlic, celery and parsley stalks in oil for 10 minutes.
- 3. Meanwhile cut the squash into chunks and put the squash, if using or mushrooms onto a baking tray. Drizzle with oil and roast for 20 minutes.
- 4. Make the stock by putting the stock in a jug and adding the boiling water. Stir until the stock cube dissolves.
- 5. Add the rice to the frying pan with the onions and fry for a few minutes. Add the stock in a ladle at a time, stirring as you add until it is absorbed. Repeat until the rice is cooked.
- 6. Chop up half the roasted vegetables and add to the rice along with the parmesan, butter and chopped up parsley.
- 7. Serve with the remaining vegetables on top.

Ingredients

One large white onion
Two celery sticks
1 garlic clove
15g butter
1 red pepper
½ can chopped tomatoes
100g chorizo
1 vegetable stock cube
300ml boiling water
200g risotto rice
50g grated parmesan

Tomato risotto

- 1. Finely dice the onion, finely slice the celery and mince the garlic. Dice the pepper into 2cm size pieces.
- 2. Soften the onion, garlic and celery for 10 minutes.
- 3. Make the stock by putting the stock in a jug and adding the boiling water. Stir until the stock cube dissolves and add the tomatoes.
- 4. Add the rice and pepper to the frying pan with the onions and fry for a few minutes. Add the stock in a ladle at a time, stirring as you add until it is absorbed. Repeat until the rice is cooked.
- Stir through the butter and parmesan. Serve.

Shepherds/Cottage Pie

<u>Ingredients</u>

For the filling:

200g minced beef/lamb

1 onion

1 carrot (grated)

1 stock cube

1 tbsp flour

For the mash:

300g potatoes

10g butter or margarine

50ml milk

Optional:

25g grated cheese for top

Baked beans

Sweetcorn

Gravy granules

Equipment;

Sauce pan, chopping board, knife, wooden spoon, jug, sauce pan, grater, peeler, masher

Method

- Peel and chop potatoes evenly. Just cover with fresh cold water. Add I level tsp of salt. Bring potatoes to boil and then simmer for 20 minutes (time them from when they come up to boil).
- 2. Chop the onions finely. Grate the carrot.
- 3. Gently fry the onions until translucent and soft. Add the mince and cook. Once the mince is browned add the grated carrot.
- 4. Add stock cube and 200ml water to the mixture and bring to boil, stirring in the stock cube.
- 5. When potatoes are cooked, drain through a colander and mash them finely, adding butter and milk to soften and give a creamy consistency. Add pepper if wanted.
- 6. Place meat sauce into an ovenproof dish. Place mashed potatoes evenly over the meat. Smooth and then fork mixture round, following the shape of the dish.
- 7. Cover with grated cheese. Cook for 25 minutes.

Ingredients (makes 12)

200g strong white bread flour, plus extra for dusting 50g ground semolina (or extra flour)

1 tsp salt
1 tsp dried yeast
1 tbsp oil
100-125ml warm water
Toppings of your choice
Grated cheese
Tomato passata

Equipment

Knife, chopping board, wooden spoon, bowl, jug, grater, rolling pin, cookie cutter

<u>Skills:</u> Rich yeast dough, kneading, baking, grating, shaping,

Make your own tomato base: Fry garlic, add tomato passata, season with salt, pepper and herbs (dried or fresh basil) simmer for 10 minutes.

Can be frozen.



Pizzas

- 1. Pre-heat the oven to 200°CWeigh flour and add to a bowl, add yeast and salt and oil
- 2. Create a well in the middle of the flour and add the oil, then gradually add the warm water and mix (make sure not to add all at once or the dough will be too wet)
- 3. When smooth, work the dough on the worktop until elastic and smooth, set aside to rise while preparing the filling (if you have plenty time, leave your dough in a warm place to prove for around an hour).
- 4. Wash, peel, slice your vegetables, grate the cheese.
- 5. If using any meat prepare that too.
- 6. When all is prepared, roll out the dough thinly on a baking tray covered with baking paper.
- 7. Add the tomato sauce, toppings and cheese.
- 8. Bake until crispy (10-15min)

Ingredients

<u>Pastry</u>

100g butter

25g sugar

1 egg

175g flour

<u>Filling</u>

2 apples

1 tsp cinnamon (optional)

70g sugar

1tbsp Blackberries (optional)

Equipment

Bowl, weighing scales, wooden spoon, jug, whisk, chopping board, knife, peeler, teaspoon rolling pin,

Skills

Rubbing in method, pastry making, rolling out, peeling, chopping

Apple Pie

<u>Pastry;</u>

- 1. Rub butter and flour together until it looks like breadcrumbs, then add sugar mix
- 2. In a jug, whisk the egg and then add to the flour mix and stir with a wooden spoon
- 3. When combined, work the dough with your hands, you may have to add more flour if it is too sticky
- 4. When smooth, set aside to rest and start with your filling

<u>Filling;</u>

- 1. Peel and core the apples then cut into wedges
- Mix with the cinnamon and sugar

Assembly of pie,

- 1. Cut your pastry in half and roll one half out to fit your pie dish. Line your pie dish.
- 2. Add the apples (and blackberries if using)
- 3. Roll out your other half of pastry and carefully lay it on top of the tin, seal bottom and top
- 4. Score the lid in 3 places to let steam out
- 5. If you have leftover pastry, you can design some pattern and lay on top



Body composition is the relative ratio of fat mass to fat-free mass (vital organs, muscle, bone) in the body. It is important to have a blend of both fat-free mass and fat to cop with everyday life. In sport this is also important depending on what you play.

Some sports performers such as rowers will need a large muscle mass to give them power and strength, whereas marathon runners will require less body fat and muscle mass to avoid them carrying too much weight. Sumo wrestlers on the other hand will require a large body mass in their performances to be successful.

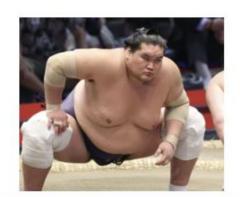
How to measure your body composition

Body Mass index (BMI)	The advantages of this test is	The disadvantage is that
BMI= Weight (kg) + Height (m) x Height (m)	that it is easy to complete	sometimes you can have
	M9400 600	misleading results
Skinfold test	The advantage of this test is that	Unfortunately, the disadvantage
Use callipers to measure skin on bicep, tricep,	it is an accurate measurement	sit that you need to use Specialist
shoulder blade and hip.	of percentage of body fat	equipment to carry this out.

This QR code will show you the tests for body composition and is linked to our BTEC Sport course in Year 10.









Can you complete these 30 challenges?

Attempt each day and record how you feel after each day.

Do you feel healthier? Do you feel more energized?

How would completing these challenges help your body composition?

30-DAY PLANK CHALLENGE

OO DAI I LAM	CHALLENGE
Day 1: 20 sec	Day 16: 2 min
Day 2: 20 sec	Day 17: 2 min
Day 3: 30 sec	Day 18: 2.5 min
Day 4: 30 sec	Day 19: Rest
Day 5: 40 sec	Day 20: 2.5 min
Day 6: Rest	Day 21: 2.5 min
Day 7: 45 sec	Day 22: 3 min
Day 8: 45 sec	Day 23: 3 min
Day 9: 1 min	Day 24: 3.5 min
Day 10: 1 min	Day 25: 3.5 min
Day 11: 1 min	Day 26: Rest
Day 12: 1.5 min	Day 27: 4 min
Day 13: Rest	Day 28: 4 min
Day 14: 1.5 min	Day 29: 4.5 min
Day 15: 1.5 min	Day 30: 5 min

30-DAY CRUNCH CHALLENGE

JO-DWI	CKONCH CHALLENGE
Day 1: 25	Day 16: Rest
Day 2: 30	Day 17: 100
Day 3: 35	Day 18: 105
Day 4: Rest	Day 19: 110
Day 5: 40	Day 20: Rest
Day 6: 45	▲ Day 21: 115
Day 7: 50	Day 22: 120
Day 8: Rest	Day 23: 125
Day 9: 60	Day 24: Res
Day 10: 65	Day 25: 130
Day 11: 70	Day 26: 135
Day 12: Rest	Day 27: 140
Day 13: 80	Day 28: Res
Day 14: 90	Day 29: 145
Day 15: 95	Day 30: 150







Look at the sports performers pictured on this page. Each one has a different set of fitness requirements for their sports and requires different body compositions.

Create a circuit tranining session for your chosen performer using the internet to help you. What will you need to consider? What equipment will you need? How will it support an athletes body composition?

Owen Farrell

Dina Asher-Smith

Lebron James

Remember, everyone is born with a different level of body composition. You can make changes to your body composition by changing your exercise habits and changing your diet. However, your body composition has to be suitable for the sport you play!



SCIENCE YEAR 9 AUT 2 ASTRONAUT

PLANETS

Cales

PLANETS

PLANETS

Weight = mass X gravitational field strength

Weight	Force acting upon an object due to gravity	Newton (N)
Mass	How much matter	Kilograms (Kg)

Gravity

Earth's gfs = 9.8N/k g

Gravitational	Energy gained by
Potential	an object raised
energy	above the ground

Mass X gravitational field strength X height mgh

Т	he	Bi	σR	aı	าย
		וט	5 -	u	. 15

Universe began 13.8 billion years ago

All matter and space expanded violently from a single point.

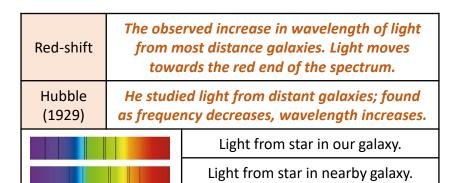
Red—shift provides evidence for expansion.



What is our skeleton for?
What do our muscles
do? How would
weightlessness affect
them?
What can astronauts do
about it?

Planet	A large body orbiting the Sun	
Moon A natural satellite orbiting a pla		
Dwarf planet A body large enough to have its own gravity which caused a spherical shape		
Solar system	Any object orbiting the Sun due to gravity	
Galaxy	Collection of billions of stars	
Universe	Collection of galaxies	

Light from star in distant galaxy.



Light from distant galaxies is red-shifted, so galaxy is moving away from us.

Galaxies are moving away from us in all directions.

Galaxies further away have bigger red-shift so are moving faster away.

coenacademy

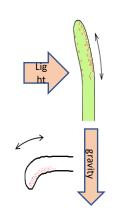
Identification of common gases

Gas	Test	Positiv result
Hydrogen	Burning splint	'Pop' sound.
Oxygen	Glowing splint	Re- lights the splint.
Chlorine	Litmus paper (damp)	Bleache s the paper white.
Carbon dioxide	Limewater	Goes cloudy (as a solid calcium carbon te forms).

Growing plants in space - Photosynthesis

The plant manufactures glucose from carbon dioxide and water using energy transferred from the environment to the chloroplasts by light

Photosynthesis	Plants make use of light energy from the environment (ENDOTHERMIC) to make food (glucose)		Carbon dioxide + Water → Oxygen + Glucose					
Photos		CO ₂	+	H ₂ O	\rightarrow	O ₂		



Plant response s using hormone s (auxins)	Light (phototropi sm)	unequally distributed in the shoot. The side with the highest concentration of auxins has the highest growth rate and the shoot grows toward the light.
	Gravity (geotropism or	Gravity causes an unequal distribution of auxins. In roots the side with the lowest concentration has the highest growth rate and the root grows in the direction of gravity.
	gravitropis m)	In new shoots from a seedling the unequal distribution of auxins causes the shoot to grow away from gravity.

 $O_2 + C_6H_{12}O_6$

Light breaks down auxins and they become

SCIENCE YEAR 9 AUT 2 ASTRONAUT

	Factor	How the rate is affected
s	Temperature	As the temperature of the environment the plant is in increases rate of photosynthesis increases (up to a point) as there is more energy for the chemical reaction.
Factors affecting the rate of photosynthesis	Light intensity	Light intensity increases as the distance between the plant and the light sources increases. As light intensity increases so does the rate of photosynthesis (up to a point) as more energy is available for the chemical reaction.
Carbon dioxide concentration		Carbon dioxide is needed for plants to make glucose. The rate of photosynthesis will increase when a plant is given higher concentrations of carbon dioxide (up to a point).
	Amount of chlorophyll	Chlorophyll is a photosynthetic pigment that absorbs light and allows the reaction between water and carbon dioxide to occur (photosynthesis)



SCIENCE YEAR 9 AUT 2 ARCHITECT

Common atmospheric pollutants

Atmospheric pollutants from fuels

Combustion of fuels	Source of atmospheric pollutants. Most fuels may also contain some sulfur.
Gases from burning fuels	Carbon dioxide, water vapour, carbon monoxide, sulfur dioxide and oxides of nitrogen.
Particulates	Solid particles and unburned hydrocarbons released when burning fuels.

Properties and effects of atmospheric pollutants

Carbon monoxide	Toxic, colourless and odourless gas. Not easily detected, can kill.
Sulfur dioxide and oxides of nitrogen	Cause respiratory problems in humans and acid rain which affects the environment.
Particulates	Cause global dimming and health problems in humans.

CO₂ and methane as greenhouse gases

Carbon footprints

The total amount of greenhouse gases emitted over the full life cycle of a product/event. This can be reduced by reducing emissions of carbon dioxide and methane.

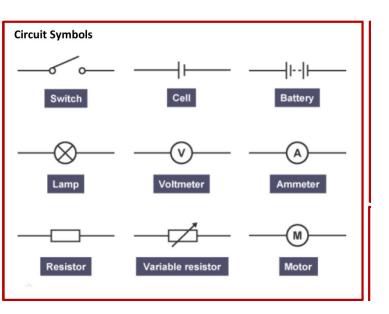


Greenhouse gases

Carbon dioxide	Human activities that increase carbon dioxide levels include burning fossil fuels and deforestation.
Methane	Human activities that increase methane levels include raising livestock (for food) and using landfills (the decay of organic matter released methane).
Climate change	There is evidence to suggest that human activities will cause the Earth's atmospheric temperature to increase and cause climate change.



SCIENCE YEAR 9 AUT 2 ARCHITECT



	Current	Potential difference
Unit	ampere, A	volt, V
Measuring device	Ammeter in series	Voltmeter in parallel
Circuit symbol of measuring device	-(A)-	-(V)-

Key Terms

Series Circuit

A circuit where all the components are in the same loop.

Parallel Circuit

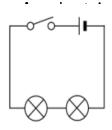
A circuit where the components are in different loops in the circuit.

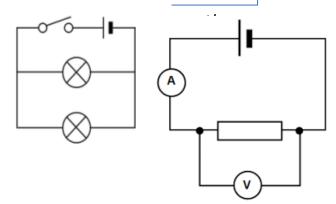
Ammeter

An electrical component that measures the size of electric current, it is connected in series

in a circuit.

Voltmeter





Energy resource	How it works	Uses	
Fossil Fuels (coal, oil and gas)	Burnt to release thermal energy used to turn water into steam to turn turbines	Generating electricity, heating and transport	
Nuclear	Nuclear fission process	Generating electricity	
Biofuel	Plant matter burnt to release thermal energy	Transport and generating electricity	
Tides	Every day tides rise and fall, so generation of electricity can be predicted	Generating electricity	
Waves	Up and down motion turns turbines	Generating electricity	
Hydroelectric	Falling water spins a turbine	Generating electricity	
Wind	Movement causes turbine to spin which turns a generator	Generating electricity	
Solar	Directly heats objects in solar panels or sunlight captured in photovoltaic cells	Generating electricity and some heating	
Geothermal	hermal Hot rocks under the ground heats water to produce steam to turn turbine Generating electr		



SCIENCE YEAR 9 AUT 2 ARCHITECT

Principle of conservation of energy

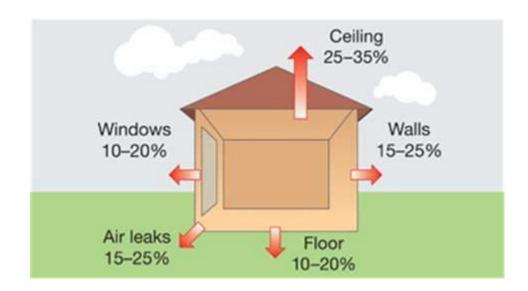
The amount of energy always stays the same.

Energy cannot be created or destroyed, only changed from one store to another.

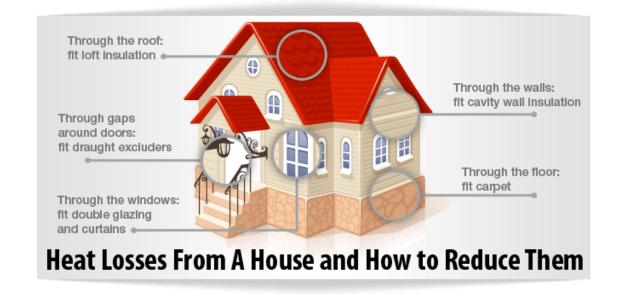
Ways to reduce 'wasted' energy

Energy transferred usefully

Insulation, streamline design, lubrication of moving parts.



Energy loss from homes



osen academi

Knowledge Organiser: Year 9 Autum Term Part 2 - Understanding computers and data representaion

Summary

Computers use binary - the digits 0 and 1 - to store data. A binary digit, or bit, is the smallest unit of data in computing. ... Binary numbers are made up of binary digits (bits), . The circuits in a computer's processor are made up of billions of transistors

Boolean algebra and <u>truth tables</u> can be used to describe logical expressions. The most common Boolean operators are AND, OR and NOT (always in capitals). Each operator has a standard symbol that can be used when drawing logic gate circuits.

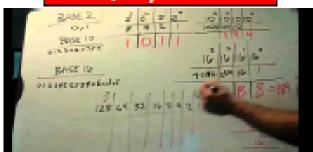
A bit pattern could represent different types of data including text, image, sound and integer.

Computers require input hardware, processing hardware and output hardware. The hardware that defines a computer is the CPU and memory. Without these a computer could not function. The CPU and memory work together to run programs.

CPU - executes programs using the fetch-decode-execute cycle.

Memory - stores program operations and data while a program is being executed. There are several types of memory, including: registers, cache, RAM and virtual memory.

Decimal, binary and hexadecimal



Boolean Algebra	
AND CARE	HAND Code
å⊐D⊸	<u></u>

9-1	OT(A)		Q - A AN	08		Q - A1944	0	
True.	Table		Truth Ta	000		TWO TH	į.	
nput.A	Output G	Import A	Input 8	Output G	input.A	input/8		Output 0
4	1	0	0	1	- F	- 1		1
1	0	D	-1			1		1
		1	D	1	1	0		1
		1	1	1	1	1		0

Central Processing Unit

The Central Processing Unit or CPU is arguably the most important component of a computer.

You can think of the CPU is being like the brain in a human.

It is responsible for all of a computer's processing.

The Fetch - Decode - Execute cycle

The CPU operates by repeating three operations:

FETCH – causes the next instruction and any data involved to be fetched from main memory DECODE – decodes the instruction to make sure it can be carried out

EXECUTE - carries out the instruction Repeat...

4	A -
	1
	CPU SPRHT FHAL
	, Total
1 GHz	
20Hz	
3GHz	

Key Voca	bulary
Clock speed	The speed of a computer CPU, measured in hertz.
Cache	A piece of temporary memory. It can refer to a part of the RAM, storage disk, CPU, or an area for storing web pages.
CPU	Central Processing Unit - the brains of the computer that processes program instructions. Also called a microprocessor.
Execute	To run a computer program.
GHz	Gigahertz. One billion hertz per second = one gi- gahertz. This is a measure of frequency and is used to describe bus speeds and CPU clock speeds.
Hardware	The physical parts of a computer system, e.g. a graphics card, hard disk drive and CD drive.
Mother- board	The circuit board inside a computer that houses the CPU, memory and connections to other devices.
RAM	Memory that is constantly being written to and read from. It does not retain its contents without a constant supply of power, i.e. when a computer is turned off, everything stored in its RAM is lost.
Registers	The section of high speed memory within the CPU that stores data to be processed.
Software	Software is the programs that run on a computer.
Virtual memory	A section of a computer storage drive which is temporarily used as RAM.

PC Components



http://bit.ly/20xi9ab

BIG Bitesize

KEEP

CALM

GO

PRACTICE







Topics covered

- ✓ Population explosion
- ✓ Birth Rates, Death rates
 and Life expectancy
- ✓ Factors affecting population growth
- ✓ Population Density and Distribution
- ✓ Population DistributionFactors
- √ Population Pyramids
- ✓ Population Control
- √ Youthful Populations
- ✓ Ageing Populations
- ✓ Population Migration

Year 9 Knowledge organiser: Population



Key Ideas:

- 1. I can describe the growth in world population over time
- 2. I can describe the distribution (spread) of people on earth
- 3. I can explain what affects growth and distribution of people
- 4. I can assess how population is impacted by youth and ageing
- 5. I can evaluate the benefits and challenges of migration

Skills

- □ To draw a line graph showing population growth/label key events ('living graph')
- □ To construct a 'choropleth' map, shading dense and sparse population density
- □ To construct population pyramid graphs
- □ To write a detailed piece of extended writing
- □ To interpret flow maps of people movement

Places and Environments

- * UK
- ❖ China
- * Africa
- ❖ Australia
- ❖ Canada
- * Russia
- Singapore
- ❖ Syria
- Germany

Key Terms Used in this Unit

- □ Population growth
- □ Birth Rate/Death Rate
- □ Dense/Sparse
- □ Distribution
- □ Working Age Group
- □ Fertility Rate
- □ Infant Mortality Rate
- □ Rate of Natural Increase
- □ Sterilisation
- □ Birth Control
- □ Incentives
- □ Forced Abortion
- □ Infanticide
- □ Gender imbalance
- □ Retirement
- □ Push/pull factors
- □ Immigration
- □ Forced migration



World populations can be measured according to the countries average quality of life. How we measure peoples living standards can vary but most agree that Income, education and life expectancy are all important.

As these numbers are based upon averages there will always be people above and below. Averages are not always the same within different areas of a country.

Italy, the UK, South Africa, Mexico and China are just some areas of the world with differences within their own countries.

Developing countries tend to have bigger differences than richer developed countries.

What would show peoples quality of life?

CHALLENGE – Are there any problems with using data to calculate this?

Global Population Density
The Registr of the Quasi relates to the number of people voting in an area - Fought / Zenn - Zenn

Personal Population

Personal P

Global population is not spread evenly across the planet. Some areas have attracted more people than others.

Areas with more people are known as 'densely populated' and those with few as 'sparsely populated'.

Areas with dense populations often have a number of **human and physical factors** that attract people to live there.

Physical factors include things like mountain ranges or swamps or frozen soils that make some areas **uninhabitable**.

Can you name densely populated areas of the world?

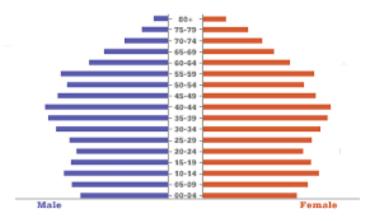
CHALLENGE – What human and physical factors explain the UK population density map?

Population pyramids are simply graphs that show the amount of males and females living in a country at differing age groups.

As a country becomes more developed it will change shape from a wide Aztec pyramid shape to a tall skyscraper shape.

A wide base means a high **Birth Rate** and a low height means a
low life expectancy.

Deep steps in at the side show a high **death rate**.



Some countries have run population control policies to try to either reduce their totals or in some cases actually increase them. China is the most famous for doing this with a 1 Child policy, which has now been relaxed. India also carried out population control aimed at reducing its total.

India and China contain the world's largest populations, with both countries around 1.3 billion people. Controlling population growth sounds simple but can have both positive and negative results.

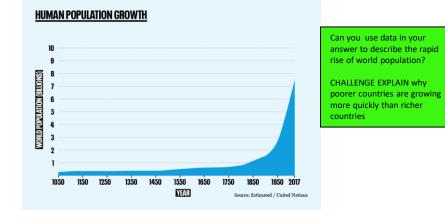


List 3 reasons why life might be better if there were less people on planet Earth

CHALLENGE - Can you suggest ways that a country could stop its population from getting too large without being too forceful?

World population has risen to well over 7.5 billion and will soon reach 8 billion. The growth rate is currently rapid.

Not everywhere in the world is rising rapidly and much of the most rapid growth rate is occurring in developing and emerging countries (poorer countries). This will present challenges for **resources** like food, water and space.



The global population is not only increasing due to more people being born. As countries become more developed which most are over time, people tend to live longer then previous generations. This can put added pressures on resources like **pensions** but can also provide benefits to countries.

World population has always been moving around. The most common type of movement or migration is from countryside areas to towns and cities. This is called 'Urbanisation'.

People are sometimes forced to move e.g. fleeing genocide (known as **push factors**) or sometimes people choose to move e.g. better pay (**pull factors**).

Movements of people can have positive and negative effects on regions or countries.

Young people (in poorer countries these are young children) are the most common type to move.

Immigrants are people arriving, emigrants are people leaving.



Give reasons why people might want to enter the UK.

CHALLENGE – Suggest reasons why migration can provoke strong opinions.



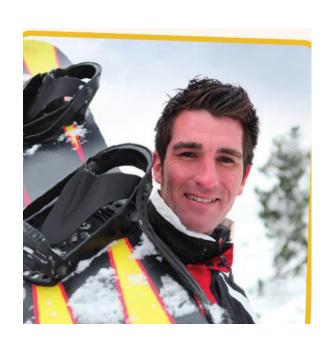
List 5 problems that ageing may cause to an individual or their family.

CHALLENGE – Suggest ways that ageing populations can be managed



German

Module 1: Ich Liebe Ferien (I Love Holidays)



In this Module you will learn how to:

Compare places, then and now

Describe activities in the past using, hatte es gab and war.

Talking about what you did in the past using the perfect tense.

Talk about how you travelled on holiday using 'sein.'

Talking about the weather, comparing the past and present.



Früher und heute • Then and today

Die Stadt ist/war ... The town is/was... alt/modern old/modern klein/groß small/big

schön/industriell beautiful/industrial historisch/touristisch historic/touristy laut/ruhig noisy/quiet

Die Stadt hat/hatte ... The town has/had...

Es gibt/gab ... There is/was...

einen Strand a beach

einen Marktplatz a town square einen Olympiapark an Olympic park

einen Hafen a harbour eine Arena an arena eine Skatehalle a skate hall

ein Einkaufszentrum a shopping centre

ein Stadion a stadium Innsbruck ist/war... historisch touristisch alt modern klein groß laut ruhig schön industriell Innsbruck hat/hatte ... einen Marktplatz Es gibt/gab ... einen Strand eine Arena eine Skatehalle ein Einkaufszentrum ein Olympiastadion

Read the Strategy Box about using war and hatte (was and had) wth adjectives to describe a place.

Keep practising your German vocabulary on www.quizlet.com

• Either:

click on this link: Quizlet Gute Reise

Or: use your class code.

Practise your vocab using the link below:

Textivate Ich Liebe Ferien





Was hast du gemacht?

ich habe viole Sachen. gemacht

ich habe/Wir haben...

Musik gehört.

Volleyball gespielt. einen Bootsausflug

gemacht.

viale Souvenirs gekauft. vial Fisch gegessen.

die Kirche gesehen. ein Buch gelesen.

ich bin zu Hause geblieben.

nach Wien

- What did you do?

Laket a lat of things.

Althorated to my used

played volleybot.

alla a boar mp.

Dought lots of souversits. ane lone of finn

sow the church. reactio book Estaward at home

Wohin bist du gefahren?

· Where did you travel to?

ich bin ... gefahren. / travelleid. nach Deutschland

to Germany

to Vienna

Wie bist du gefahren?

How did you travel?

7 tresweaterd. ich bin... gefahren. mit dem Auto bycor

mit dem Reisebus by coach. mit dem Schiff by-boot

I flow ich bin geflogen. ich bin zu Fuß gegangen. / wokind

Mit wem bist du gefahren? Who did you travel with?

ich bin ... gefahren. / browefferd. mit meiner Familie

with my family: mit Freunden with friends

Wo hast du gewohnt?

· Where did you stay?

Ich habe ... gewohnt. Istayed... in einem Hotel in a hotel

in einem Ferienhaus in a holiday house in einem Wohnwagen in a caravan

in einer Jugendherberge in a youth hostel auf einem Campingplatz on a campsite bei Freunden with friends

Was hast du noch gemacht?

· What else did you do?

Ich bin ... gegangen. I went ... an den Strand to the beach in die Stadt into town windsurfen windsurfina kitesurfen kite surfina schwimmen swimming Ich bin ... gefahren. I went ...

Wakeboard wakeboarding Snowboard snowboarding

skiing

Banane banana boating

Ich habe Snowtubing gemacht.

Ich habe Eistennis

I played ice tennis.

I went snowtubing.

gespielt.





Use this verb box to make sentences.

sie sind

www.textivate.com

Username: openacademy Password: first name initial and surname and 800

Go to 'my resources' to find your work.
Or go directly to the link and complete the sequence on The Perfect Tense paragraph; Textivate; Perfect Tense

Paragraph

Strategie 1

Partnerarbeit

Two heads are often better than one when it comes to learning vocabulary. Working with someone else helps you to concentrate for longer and makes learning fun. Here are some activities to try with a partner:

- Play word association. Your partner says a word from Chapter 1 and you say a word that is related to it in some way. Be prepared to justify your thinking!
 - Winter
 - Es schneit.
- Play hangman or pictionary with the words from these Wörter pages.

Try doing this with a friend or sibling at home

Wie ist/war das Wetter?

• How is/was the weather?

Es ist/war ... It is/was ...

sonnig sunny

kalt cold

heiß hot

wolkig cloudy

windig windy

neblig foggy

Es regnet. It is raining./It rains.

Es schneit. It is snowing./lt snows.

Es donnert und blitzt. There is thunder and

lightning.

Practise your vocab using Quizlet; Weather

Year 9 History: Democracy, dictatorships and the causes of the Second World War

Key words	
Democracy	A political system in which the public can vote in free elections and have freedom expression and religion
Dictatorship	A political system in which one Party or person rules the country, with no elections or freedom of expression
Cause	An event that leads to another event
Consequence	An event or an impact that happens as a result of a cause
Diversity	Differences between people, places or events
Second World War	A war that took place on several continents between 1939 and 1945
Nazi Party	Shortened name for the National Socialist German Workers Party, a far-right Party who ruled Germany between 1933 and 1945, led by Adolf Hitler
Soviet Union	Also known as the USSR, a collection of communist countries in eastern Europe, including Russia
Communism	A political system in which everything is shared equally among people and everyone has equal rights

	Apr.
1	
TE	100

As a result of the Reparations payments, the German economy collapsed and led to hyperinflation in 1923. This meant that they value of money decreased rapidly.



Although Germany recovered after 1923, the Wall Street Cresh in 1929 led to further economic collapse in Germany. Many people turned to extreme political Parties like the Nazis and the Communists.

Terms of the Treaty of	Detail
-	Detail
Versailles	
Blame	Germany had to accept
	full responsibility for
	starting the war, even
	though they hadn'tl
Reparations	Germany had to pay
	£6.6 billion to repair
	the damage of the war
Army	The German army was
	reduced to 100,000 men,
	no submarines, no
	airforce and only 6
	ships. The Rhineland
	was also de-militarised
Territories	Germany gave up many
	areas of land, such as
	Alsace-Lorraine, the
	Sudetenland and the
	Polish corridor

After the First World War, the leaders of Britain, France and the USA forced Germany to sign the Treaty of Versailles. The terms of this Treaty can be remembered using the word BRAT (see above)



1919: Treaty of Versailles 1920: League of 1923: Hyperinflation

Nations formed

1929: Wall Street Crash

1933: Adolf Hitler becomes Chancellor of Germany 1938: Germany marches into Austria; Munich Aoreement signed 1939: Nazi-Soviet pact formed, Germany invades Czechoslovakia and Poland, WWII begins

The actions of Adolf Hitler

When Hitler became dictator of Germany in 1933, he began on his plans to rebuild Germany as a military power. He rebuilt the German army and then used it to march into Austria, invade Czechoslovakia and eventually Poland in September 1939.

What were the

causes of WWII?

The Treaty of Versailles

Although it was meant to prevent war, the harsh terms of the Treaty of Versailles actually led to a lot of anger in Germany, which helped Parties like the Nazi Party gain support. Hitler promised to end the Treaty of Versailles and take back German territories.

This is exactly what he did!

Appeasement and the Munich Agreement

In an attempt to avoid another war, British Prime
Minister Neville Chamberlain made an agreement with
Germany in September 1938 that Britain and Germany
would not go to war with each other. The agreement
also allowed Germany to take back territories in
Czechoslovakia without Britain interfering.

The Nazi-Soviet Pact

Despite being enemies, Nazi Germany and the Soviet Union made an agreement in August 1939 that neither would attack each other, at least for now. They also agreed to divide up Poland between them.

The failure of the League of Nations

The League of Nations, set up at the end of the First World War, was to keep the peace between nations by solving issues by negotiation rather than war. They also wanted disarmament to occur around the world.

However, the League did not enforce its ideas.

osen academi

Vocabulary to

learn

Pathetic fallacy

Genre

Gothic

Gothicism

Adaptation

Protagonist

Connotation

Unnatural

Imagery

Suspense

Tension

Ominous

Atmosphere

Foreboding

Structure analysis checklist:

- 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 (and 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
- Aim higher: layers of meaning

Evaluate

- The impressions you have of the text in relation to a statement
- The methods the writer has used to create these impressions
- How the particular methods create these impressions

Methods

- Linguistic devices simile, metaphor, personification, repetition, rhetorical question etc.
- Word choices nouns, adjectives, verbs, adverbs etc.
- Sentence forms fragment, simple, compound, complex

Descriptor from GCSE assessment criteria

Level 4: simple vocabulary Bad Good Light Happy

Level 5: effective vocabulary Negative Positive Bright Jolly

Level 6: sophisticated vocabulary Awful Fantastic Brilliant Ecstatic

Levels 7-9: ambitious vocabulary Immoral Virtuous Dazzling Elated

Suggested Reading







Literary devices and word class

- 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
- Alliteration same starting sounds really rather raucous
- Lists to emphasise many reasons
- Verbs doing words
- Adjectives describing words
- Nouns objects or abstract things e.g. love
- Adverbs describe doing words e.g. wrote <u>neatly</u>
- connotations of words associations night-time = mystery

Prinapopo UEGO

- 1. Write definitions for each of the vocabulary to learn.
- 2. Learn how to spell the above key words by the learn/cover/check method.
- List down at least three words that are used to convey the horror of the death scene.Beside the words add meanings.
- 4. Explain how the words listed above create a sense of horror.
- 5. List the key events of this extract. Beside each point add a quotation.
- 6. Create a comic strip to retell this extract of the story.
- 7. Explain, in your own words, how Manfred reacts when he views the death scene.
- 8. Create your own horror story. Try to use at least three language devices.
- Write your own commentary of your story explaining why you have chosen particular words or language devices for effect.
- 10. Describe Manfred. Then explain how language has been used to portray him.
- Explain how language has been used to portray Matilda as a character that makes the reader feel sympathetic.
- 12. How have verbs been used to increase the horror in the story?
- Draw the scene and, using quotations, label the picture.
- Find examples of any literary devices and word classes.
- 15. Select 5 words and create a glossary this is a list of words and meanings.
- 16. Explain three things that make this story a gothic novel. E.g. it is set in the past

osen ocodenny

The Castle of Otranto by Horace Walpole

(This novel published in 1765 is viewed as the first Gothic novel.) It is a story about a father who is determined to secure an heir for his cursed estate. He arranges a marriage for his son but he is killed by falling armour on the day of his wedding to Isabella.

The first thing that struck Manfred's eyes was a group of his servants endeavouring to raise something that appeared to him a mountain of sable plumes. He gazed without believing his sight.

"What are ye doing?" cried Manfred, wrathfully; "where is my son?"

A volley of voices replied, "Oh! my Lord! the Prince! the Prince! the helmet! "

Shocked with these lamentable sounds, and dreading he knew not what, he advanced hastily,—but what a sight for a father's eyes!—he beheld his child dashed to pieces, and almost buried under an enormous helmet, an hundred times more large than any casque ever made for human being, and shaded with a proportionable quantity of black feathers.

The horror of the spectacle, the ignorance of all around how this misfortune had happened, and above all, the tremendous phenomenon before him, took away the Prince's speech. Yet his silence lasted longer than even grief could occasion. He fixed his eyes on what he wished in vain to believe a vision; and seemed less attentive to his loss, than buried in meditation on the stupendous object that had occasioned it. He touched, he examined the fatal casque; nor could even the bleeding mangled remains of the young Prince divert the eyes of Manfred from the portent before him.

All who had known his partial fondness for young Conrad, were as much surprised at their Prince's insensibility, as thunderstruck themselves at the miracle of the helmet. They conveyed the disfigured corpse into the hall, without receiving the least direction from Manfred. As little was he attentive to the ladies who remained in the chapel. On the contrary, without mentioning the unhappy princesses, his wife and daughter, the first sounds that dropped from Manfred's lips were, "Take care of the Lady Isabella."

The domestics, without observing the singularity of this direction, were guided by their affection to their mistress, to consider it as peculiarly addressed to her situation, and flew to her assistance. They conveyed her to her chamber more dead than alive, and indifferent to all the strange circumstances she heard, except the death of her son.

Matilda, who doted on her mother, smothered her own grief and amazement, and thought of nothing but assisting and comforting her afflicted parent. Isabella, who had been treated by Hippolita like a daughter, and who returned that tenderness with equal duty and affection, was scarce less assiduous about the Princess; at the same time endeavouring to partake and lessen the weight of sorrow which she saw Matilda strove to suppress, for whom she had conceived the warmest sympathy of friendship.

YEAR 9 — CONSTRUCTING IN 2D/3D...

What do I need to be able to do?

By the end of this unit you should be able to:

- Name 2D & 3D shapes
- Recognise Prisms
- Sketch and recognise nets
- Draw plans and elevations
- Find areas of 2D shapes
- Find Surface area for cubes, cuboids, triangular prisms and culinders
- Find the volume of 3D shapes

Keywords

2D: two dimensions to the shape e.g. length and width

3D: three dimensions to the shape e.g. length, width and height

Vertex: a point where two or more line segments meet

Edge a line on the boundary joining two vertex

Face: a flat surface on a solid object

Cross-section: a view inside a solid shape made by cutting through it

Plan: a drawing of something when drawn from above (sometimes birds eye view)

Perspective: a way to give illustration of a 3D shape when drawn on a flat surface.

II Recognise prisms

3D Shapes



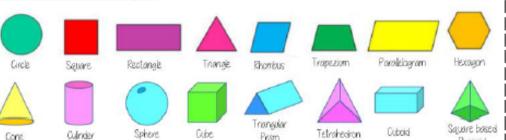
Nets of 3D Shapes



Nets



Name 2D & 3D shapes

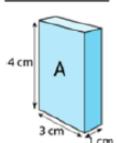


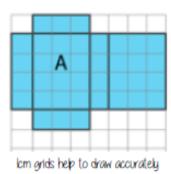
to the end faces. a culinder although with very similar properties does not have flat faces so is not categorised as a prism

The cross section will also be identical

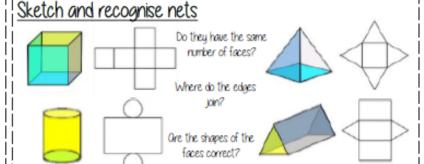
a solid object with two identical ends and flat sides

Nets of cuboids



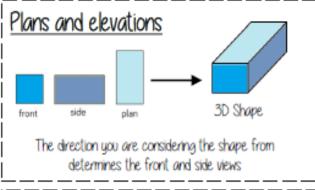


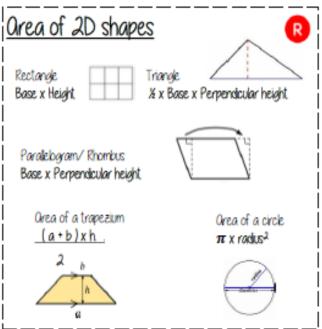
Visualise the folding of the net Will it make the cuboid with all sides touching

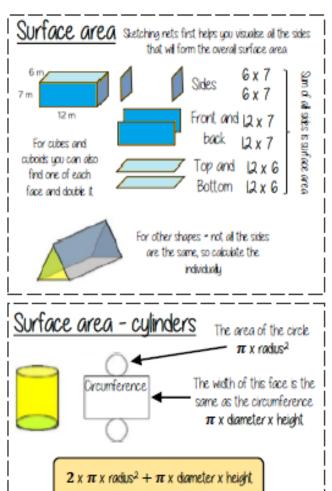


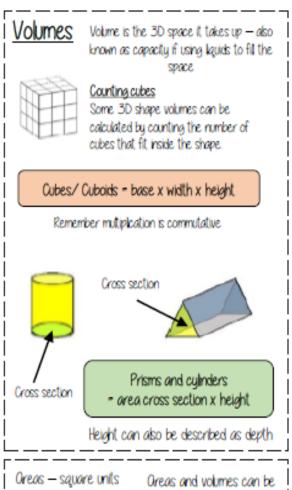
Plans and Elevation







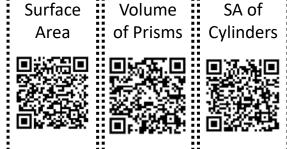




A job involving geometry:

Architect

Volumes — cube units



An architect builds design plans for offices, buildings and homes. Their key responsibilities include using the client's preferences, needs and ideas to create well-designed structures, providing clients with cost estimates, designing construction plans using specifications and scaled drawings and negotiating construction contracts.



left in terms of pi π

YEAR 9 - CONSTRUCTING IN 2D/3D... Constructions & congruency

What do I need to be able to do?

By the end of this unit you should be able to:

- · Draw and measure angles
- Construct scale drawings
- Find locus of distance from points, lines, two lines
- Construct perpendiculars from points, lines, anales
- · Identify congruence
- Identify congruent triangles

<u>Keywords</u>

Protractor: piece of equipment used to measure and draw angles

Locus: set of points with a common property

Equidistant: the same distance

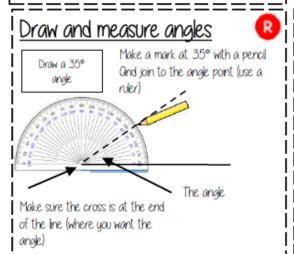
Discorectangle: (a stadium) — a rectangle with semi circles at either end

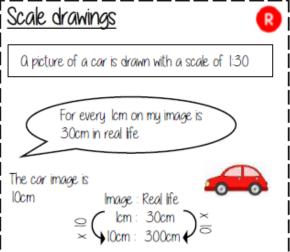
Perpendicular: lines that meet at 90°

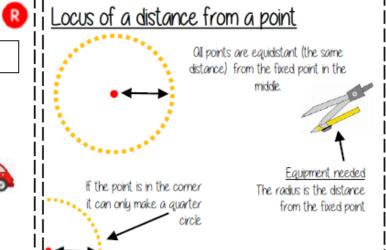
arc: part of a curve

Bisector: a line that divides something into two equal parts

Congruent: the same shape and size







Draw and Measure Angles



Scale Drawings



Loci

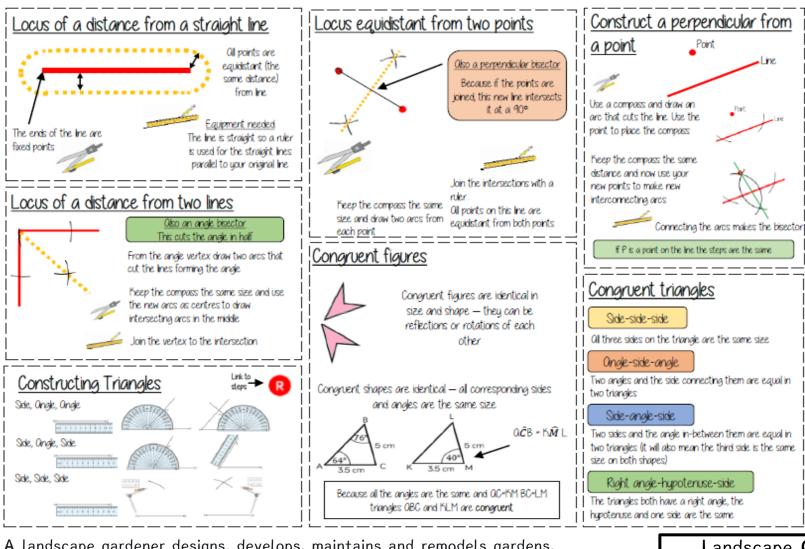


Constructing Triangles



Perpend -icular Bisector





A landscape gardener designs, develops, maintains and remodels gardens. Landscape gardeners are responsible for designing, crafting, regenerating and maintaining outside spaces. The creative side of a landscape gardener's job involves two main stages: briefing and design. Firstly, the landscape gardener will meet with their client to discuss their wants and desires for the proposed landscaping project. They will then produce a series of sketches, plans and designs before presenting them to the client. Once the designs are finalised, the landscape gardener will be responsible for taking care of the business side of things: hiring equipment, recruiting additional labourers where necessary, and procuring all of the required materials, such as wood, cement, wood chippings, pebbles and soil.

Landscape Gardener

Perpendicular

from point to

Angle

Bisector

Congruent

Triangles



Year 9 RS: What is meant by sacredness?

	Key words
Sacred	Connected with God or religion. Something that is holy or spiritual.
Shrine	A place or building that is holy and associated with religion.
Worship	To shpw devotion to God through actions and service eg: prayer
Disciples	A person who follows and learns from someone else.
Pilgrimage	A religious or holy journey.
Pilgrim	A person who performs a journey which has religious significance.
Blessings	Something said or done which shows the appreciation of God.

In every religion there are special places to which people travel; usually because something important happened there. These journeys are called pilgrimages. There are many reasons why people go on pilgrimages: To renew their faith — or their belief in their God. To feel part of a larger group or family. It is commanded in the scriptures or holy writings. To bring something back (an actual souvenir, or something spiritual). Going on a pilgrimage with your fellow men and women belonging to a single religious group, reaffirms a sense of belonging in a person. Performing the different religious rites in this long and sacred journey alongside these people also breed a sense of harmony, unity, and care for one and another. One of the most important reasons for going on pilgrimage tours and seeing the places of spiritual importance is to meet other saintly people who follow a spiritual path and see how they live.

The Shrine of Our Lady-Walsingham

Pilgrimage is very important in some religious traditions. Christians believe pilgrimage can help them develop spiritually and bring them closer to God.

Pilgrims have been visiting Walsingham in Norfolk for many centuries. Walsingham is important for Christian pilgrims because an important vision about Mary, the mother of Jesus Christ, took place here.

Many Christians believe that Richeldis de Faverches, a Saxon noblewoman, lived here and had a vision in the year 1061. In this vision, Richeldis believed that she was taken by Mary, the mother of Jesus, to her home in Nazareth.

In this house in Nazareth, it is believed that the Angel Gabriel promised Mary that she would give birth to a son, Jesus. Richeldis was then asked in this vision by Mary to build an exact copy of this house in Walsingham. This is why Walsingham is often called the Nazareth of England.

Today, this copy of Mary's home in Nazareth is called the Holy House and is found in the Anglican Shrine or the Parish Church of Saint Mary. A statue of Our Lady of Walsingham is also positioned above the altar in this church.

Some Roman Catholics walk barefoot over the last mile from the Slipper Chapel to the Holy House as an act of penance. There are daily services where pilgrims pray together, especially saying the rosary, celebrating mass and receiving blessings.

Every year, on spring bank holiday, there is a national pilgrimage. Pilgrims process from the ruined priory through to the shrine. They also take part in a daily service called the Sprinkling of the Well as they believe that the water of the church well has qualities that can bring individual blessings. Christians born and raised in England may choose to go on a local pilgrimage. This is important as many cannot afford or are not able to make the journey to Jerusalem, Bethlehem or Nazareth.

Western Wall

Going on pilgrimage is a sacred duty for many faiths. Jerusalem is a traditional place of pilgrimage for Jewish people.

The Western wall is the most important sight for Jewish prayer and pilgrimage.

The Western Wall, or the Kotel, is thought to be the only remaining part of the Second Temple. The wall is not from the Temple itself, but what remains of the wall that would have surrounded the Temple. Jewish people still visit Jerusalem today as the focal point of their religion and face towards it when they pray as a sign of its importance. In fact, synagogues are traditionally orientated towards Jerusalem and Jews position themselves towards Jerusalem while reciting the Amidah. At the end of every Passover Seder celebration, Jewish people raise their glass in the hope that they will celebrate the festival 'next year in Jerusalem. Visiting The Western Wall is a reminder to Jewish people of their history, but also gives them a link with the holiest site, the Temple. It is the closest Jewish people can get to the presence of God. Also, as the Western Wall has not been destroyed, it is a symbol of hope to the Jewish people that they too will last forever. Some Jews believe that a third Temple will be built when the Messiah comes in the future. There are many rituals that take place at the Western Wall. People write prayers on small pieces of paper and push them in between the cracks of the wall. As Jews believe that the wall is a symbol of God's presence, many believe that God can actually see what has been written.

The Ganges

Going on pilgrimage is a sacred duty for many faiths. Many pilgrimage sites are situated near to the River Ganges and reflect how important it is to Hindus.

The River Ganges is important in its own right. Some Hindus believe that it flowed from heaven to purify humans. Sometimes the river is represented in female form because many Hindus refer to it as 'mother Gangaa' or 'she'. There are various locations along the River Ganges which can attract millions of pilgrims. Many Hindus believe water (known as 'Gangaa jal') from anywhere on the River Ganges is purifying and holy.

Kumbh Mela

The 55-day Kumbh Melatakes place every 12 years at the union of the rivers Ganges, Yamuna and the Saraswati, which is no longer visible. The most recent Kumbh Mela took place in 2013 and 120 million pilgrims attended.

People enter the Ganges in order to purify themselves. Many pilgrims also take home small containers of water from there to give to friends and family who are not able to attend.

Some Hind.us visit the Gangotri Temple in the Himalayas. It is situated near the source of the River Ganges, where the water is believed to be purest.

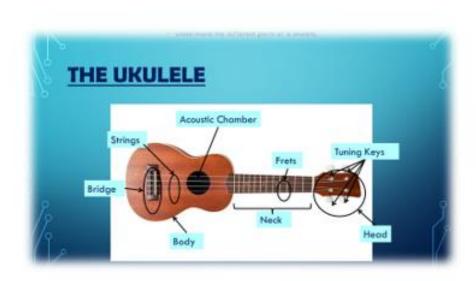
Many pilgrimage sites are situated near to the River Ganges and reflect how important it is to Hindus. Many stories inscripture feature the river. The very popular avatar of Lord Vishnu as Krishna is believed to have lived at Gokul, on the Yamuna River, another place of pilgrimage for some Hindus. The young Lord Ganesh is also shown having adventures in and around the river.

The Ganges River is a 1569 mile long river flowing across India and Bangladesh into the Bay of Bengal. The Ganges River begins in the Himalayas' Gangotri Glacier and by the time it reaches its mouth it is the world's third largest river by discharge. In Hinduism the Ganges River is the most sacred river, and is worshipped as the Goddess Ganga. The Ganges River drains an area of 416,990 square miles, and by 2007 it was the 5th most polluted river in the world. This pollution is greatly attributed to industrial and human waste, which is not only dangerous to the humans who consume it as drinking water, but to the survival of many species that live in its water.

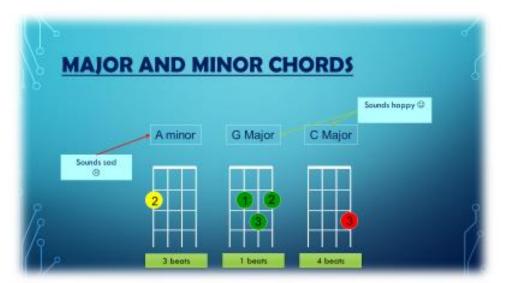


Year 9 Autumn Term Knowledge Organiser











Samba Music

- . Originates from Brazil and is often played at carnivals and festivals
- Can have up to 2000 people in a band, all playing percussion instruments whilst marching to stay in time
 - Uses polyrhythms and a fast tempo

American Music

- Often referred to as Country and Western Music, it relies heavily on guitars and drums
- Often patriotic, religious and deals with adult content
 - Repetitive and easy chords but with strong melodies and lyrics

Chinese Music

- The most recognisable feature of Chinese music is the use of the pentatonic scale, which uses all the black keys on a western keyboard.
 - It usually uses flutes, stringed instruments, cymbals and gongs
- The music is soothing, played at a rubato tempo and is meant to reflect nature

Bhangra Music

- Bhangra is a fusion of traditional Indian Raga music and British influences.
- It developed in the underground party scene of Indian and Pakistani immgrants who had moved to the UK in the 1970/80's
- It uses music technology and traditional singing styles and raga scales

World Music

Modern British Music

- Famous British artists and bands include The Beatles, Oasis, Rolling Stones, Queen, Elton John and Coldplay
- Grunge, grime, dubstep, punk, soft rock are all subgenres of British music
- Often have eccentric personalities and unique singing styles

Reggae Music

- Originates from Jamaica in the 1960's
- Uses syncopation (off-beat) and a rock-steady tempo
- Bob Marley was the King of Reggae music and made it famous worldwide
- Uses instruments such as drums, guitars, keyboards and trumpets



ongwrit	ing			
1) Decide	on the structure on yo	ur song using introduc	tions, verses, choruses and bridges	
2) Choose	e your chord progressio	n for each section		
			ovisation before settling on a repeating pattern that can be altered slight	ly in
	or reversed to add contr			
-	armony using appropria	te intervals		
5) Add ly				
6) Finally	, choose which instrum	ents to use in your arr	angement	
	Common Chord Progres			
	Major Keys: C, D, F, G	& A		
I IV V	I vi IV V	ii V I		
C F G D G A	C Am F G D Bm G A	Dm7 G7 Cmaj7 Em7 A7 Dmaj7		
F Bb C G C D	F Dm Bb C G Em C D	Gm7 C7 Fmaj7 Am7 D7 Gmaj7		
A D E	A F#m D E	Bm7 E7 Amaj7		
I vi ii V	I V vi IV	I IV vi V	_	
C Am Dm G	C G Am F	C F Am G		□ <u>′</u> .
D Bm Em A F Dm Gm C	D A Bm G F C Dm Bb	D G Bm A F Bb Dm C		= :
G Em Am D A F#m Bm E	G D Em C A E F#m D	G C Em D A D F#m E	# + + + + + + + + + + + + + + + + + + +	⅃.
			Unison Minor 2nd Major 2nd Minor 3nd Major 3nd Diminished 4th Perfect 4th Augmented	4th
I iii IV V	I IV I V	I IV ii V	•	_
C Em F G D F#m G A	C F C G D G D A	C F Dm G D G Em A		\exists
F Am Bb C G Bm C D	F Bb F C G C G D	F Bb Gm C	(P) - #- *- *-	\exists
A C#m D E	ADAE	G C Am D A D Bm E	Ominished 5th Perfect 5th Augmented 5th Minor 6th Major 6th Minor 7th Major 7th Perfect Octa	ree
	www.piano.keyboard-guide.com			

