
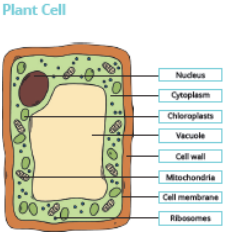
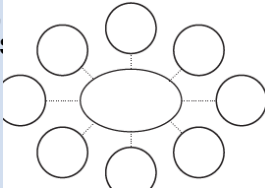


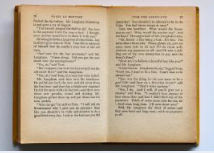



Summer 1 - Year 8 Name:



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
Food	3	German	29
DT	10	History	32
PE	11	English	34
Science	12	Maths	38
Computer Science	22	RE	44
Art	23	Drama	46
Geography	27	Well Being	47

Idea	Explanation
<p>Make some flash cards or PowerPoint slides. Make top trumps.</p> 	<p>Write down key words, quotation, questions or equations on one side of a card. On the other side, write the definition or answer. Use them to test yourself.</p>
<p>Make a poster.</p> 	<p>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!</p>
<p>Draw spider diagrams, or for the adventurous: mind maps.</p> 	<p>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.</p>
<p>Write a song or a rap.</p> 	<p>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.</p>
<p>Plan a lesson</p> 	<p>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.</p>
<p>Write a story or comic strip.</p> 	<p>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.</p>
<p>Write a quiz. Design a game.</p> 	<p>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.</p>

# Seasonal Produce and Air Miles

## Seasonal produce

**Seasonality of food** refers to the times of year when the harvest or the flavour of a given type **food** is at its peak. This is usually the time when the item is the cheapest and the freshest on the market.

The **food's** peak harvest time usually coincides with when its flavour is at its best.

## Advantages of local, seasonal foods

- Often cheaper as it is not imported and there is a larger quantity of the food available
- Fresher as it has taken less time to travel and less storage time.
- High in nutrients - fruit and vegetables lose nutrients over time after being picked. With less travel and storage time, they lose less nutrients.
- Tastes better as it is fresher and higher in nutrients.

## Disadvantages of local, seasonal foods

- There is a smaller range of foods available
- Not importing foods means not supporting farmers in developing countries.

## Examples of UK grown produce

Autumn	Winter	Spring	Summer
Apples	Cauliflower	Strawberry	Cucumber
Mushrooms	Sprouts	Carrot	Aubergine
Beetroot	Suedes	Lettuce	Tomato
Pears	Sweet	Leeks	Raspberry
Potatoes	potato	Asparagus	Courgette
Pumpkin	Broccoli	Peas	Onion
Garlic	Oranges	Spring	Corn on the
	Cabbage	onion	cob

## Food miles

- If we're not eating fresh, seasonal food grown in the UK, the food has travelled from abroad to reach us.
- Food miles are clocked up by the fresh fruit and vegetables arriving by plane from across the globe.
- Then the fruit gets loaded in to lorries and driven across various parts of the country to supermarkets
- Then once on a shelf the products are then bought by people who then drive it back home.

Food miles are the measure of the distance a food travels from field to plate. This travel adds substantially to the Carbon Dioxide emissions that are contributing to climate change. The amount of food being flown into the UK doubled in the 1990s and is predicted to rise further each year. Consumers are also directly responsible for increased food miles. We now travel further for our shopping and use the car more often to do it.

## Advantages of importing foods

- A wide range of foods are available in our shops all year round e.g. strawberries at Christmas.
- Less energy is used growing certain crops in poorer countries as there is no need for heating glasshouses etc. (less damage to the environment)

## Disadvantages of importing foods

- Its harder to monitor food production standard and conditions for workers in countries far away.
- Taxes on imported foods means farmers in developing countries don't always receive a fair price for their foods.
- Food that has travelled a long distance is less fresh by the time it reaches the shelves
- People do not buy local produce as much so local UK farmers don't make as much money
- Increased road traffic as more food is being transported around the holiday
- There is increased used of fuel for the road transport plus the carbon dioxide emissions related
- The amount of food flown into the UK increases each year which means the UK is not self-sufficient
- Pressure to expand food production has led to the destruction of environments in some poorer countries
- Over 60% of household waste is a result of food packaging
- Fresh spinach loses over 90% of its vitamin C in the first 24 hours of harvest

## Examples of imported foods

Pineapple, mango, tomatoes, celery, potatoes, bananas, nuts, sugar, chicken, lamb, beef, fish, oil, cocoa beans, grapes, tea, coffee, rice, soya bean, herbs, spices, olives, capers, avocado, cauliflower, broccoli

# Food Packaging

## Food packaging

Food is packaged to protect the product during transport and whilst sitting on shelves.

## Why is food labelling important?

Symbols on packaging show important information to customers.

## Example exam questions:

### Seasonal produce and air miles

What are the advantage of buying locally produced, seasonal produce? (6 marks)

Explain the disadvantages of buying imported foods. (10 marks)

Explain the term 'air miles' (3 marks)

Explain the term 'seasonal produce' (3 marks)

How might a restaurant use the fact they only use

## Food packaging

Compare the two dishes and explain which dish is a healthier choice. Use the traffic light system to help you with your answer (6 marks).

Why is it important to include a vegetarian symbol on food packaging of vegetarian products? (2 marks)

Giving farmers a fair price for their products.	Forest Stewardship Council - helping effectively manage forests.	Suitable for home freezing.	Eggs have been produced to the highest standards of food safety.	Vegetarian approved - free from animal products.
This product can be recycled.	A British organisation that promotes and regulates food quality.	Tidy man - do not litter.	Food which abides by the Islamic law. The Islamic way of slaughtering is cutting the throat and draining the blood.	An ethical food label - helping farm animals have a good life.

# Reference intake

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:

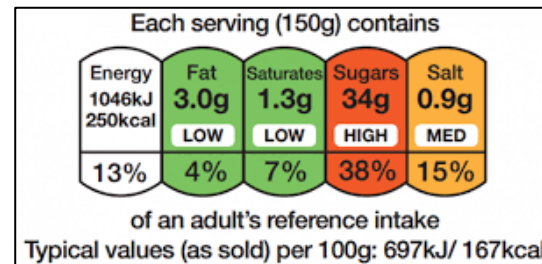
Kcal (calories) - 2000

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.

## Nutrients

Macro nutrients - needed in large quantities in the diet. The three macro nutrients are: PROTEIN, CARBOHYDRATES, FAT

Micro nutrients - needed in small quantities in the diet. The two micro nutrients are: VITAMINS, MINERALS

## Protein

Proteins are made up of amino acids, often referred to as the 'building blocks' of the body. Non-essential amino acids can be made by the body, however, essential amino acids can't be made by the body and we must get from the food we eat.

High biological Value (HBV) proteins contain all the essential amino acids we need and generally come from animal sources. Low biological value (LBV) proteins are missing one or more essential amino acids and generally come from plant sources.

### Food sources

HBV - beef, pork, lamb, poultry (chicken, turkey, duck), fish, cheese, butter milk

LBV - beans, chickpeas, lentils, peas, nuts, seeds, found in smaller amounts in some vegetables such as spinach and broccoli.

### Function

Needed for growth from childhood to adulthood and the growth of nails, hair and muscle mass, repair of muscles, tissues and organs after illness or injury and to make enzymes for digestion and antibodies to stop us getting ill.

### Example exam questions:

What are the two types of fat? (2 marks)  
Explain the difference between a HBV and LBV protein (6 marks)

## Carbohydrates

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

### Food sources

Starchy - 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

## Dietary related health problems

### Too much sugar 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 salt can cause:

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

### Too much saturated fat 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).

## Fat

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

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

Plant - vegetable oils (sunflower, olive, rapeseed), avocado, nuts, seeds

### Function

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



# Practical assessment 2: Tomato and basil quiche

## Ingredients

100g plain flour  
50g butter or margarine  
2tbsp cold water  
1 tomato  
Handful of basil leaves  
2 eggs  
125ml semi-skimmed milk  
50g cheese

## Equipment

Bowl  
Weighing scales  
Spoon  
Jug  
Chopping board  
knife

## Skills

Weighing  
measuring  
Rubbing in method  
Seasoning



1. Pre-heat the oven to 180°C. Rub the butter and flour together until it resembles bread crumbs.



2. Add the water gradually until the pastry comes together into a ball.



3. Roll out the pastry and line your dish.



4. Mix the eggs, milk, mixed herbs and seasoning in a jug.



5. Pour the egg mixture into the pastry shell.



6. Slice the tomatoes and cheese and lay over the top of the tart. Bake in the oven for 30 minutes.

# Lemon Drizzle Cupcakes

## Ingredients

110g butter

110g sugar

110g self raising flour

2 eggs

Zest of  $\frac{1}{2}$  lemon

Drizzle:

Juice of 1 lemon

50g sugar

## Equipment

Chopping board, knife,  
jug, grater, bowl,  
wooden spoon, cake tin,  
sieve, scales

## Skills

## Weighing

1. Beat butter and sugar until pale and creamy.
2. Whisk the eggs in a jug and add the egg little by little.
3. Sift in the flour and lemon zest and fold until combined.
4. Evenly divide your mixture between 6 cupcake cases.
5. Make the drizzle; mix sugar and the lemon juice.
6. When the cakes are ready, prick the top with cocktail stick and pour over the drizzle.

# Meatballs

## For the meatballs:

250g mince  
 $\frac{1}{2}$  onion  
2 tbsp breadcrumbs  
1 egg



## For the meatballs:

1. Finely chop the onion and put in a bowl.

2. Add the egg, breadcrumbs and mince. Mix well with your hands.

3. Divide into even round shapes and place on a baking tray with a drizzle of oil. Cook for 20 minutes.

## For the sauce:

1 can chopped tomatoes  
1 garlic  
 $\frac{1}{2}$  onion  
1 tsp mixed herbs

## Optional

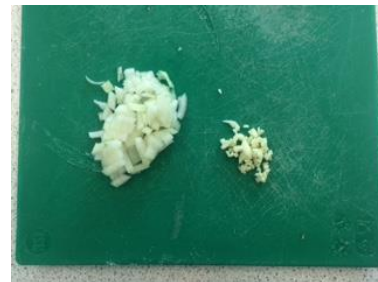
200g cooked pasta

## Equipment

Knife  
Chopping board  
Bowl  
Baking tray

## Skills

Weighing  
Chopping  
Seasoning  
Baking  
Frying



Serve with spaghetti and parmesan cheese on top.

## For the sauce:

4. finely chop the onion and garlic.

5. Gently fry for a few minutes. Then add the can of tomato's and herbs.

6. Allow to simmer for 10 minutes. Stir through the meatballs when they are cooked.

Next lesson you will make a pasta dish of your choice.



# Chocolate orange cookies

## Ingredients

125g butter, softened  
100g light brown soft sugar  
125g caster sugar  
1 egg, lightly beaten  
225g self-raising flour  
200g chocolate chips  
1 orange

## Equipment

Weighing scales  
Bowl  
Spoon  
Baking tray  
jug

## Skills

Weighing  
Whisking  
Shaping  
Baking



1. Pre-heat the oven to 190C. Weigh out the butter and the sugar.



2. Cream the butter and sugar together.



3. Mix the egg in a jug and add a little at a time to the butter mixture.



3. Add the flour and chocolate chips and orange zest. Mix well.



4. Split the mixture into 12 even balls, 6 per tray. Bake for 10 minutes until golden on the edges and soft in the middle.

You can change this recipe to make:  
-Chocolate orange cookies  
-Cranberry and white chocolate cookies  
-Peanut butter cookies

# Year 8 Design and Technology



Fretsaw



Metal File



Belt Sander

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 sweet dispenser.

### Key Questions?

- What is the function of a sweet dispenser? Will it have any extra practical design features?
- What key aesthetics do you need to consider when designing?
- How will accurate measuring affect the quality and function of your product?

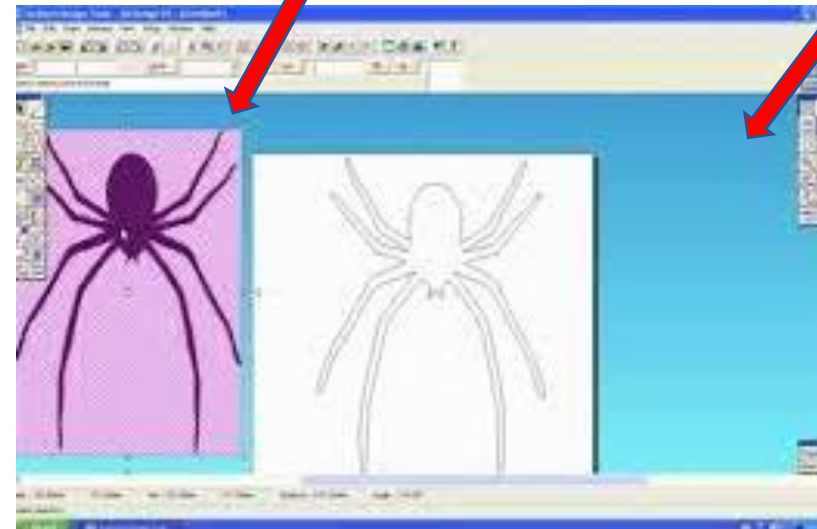
### Word Bank

Material properties	Aesthetics	Measurements
Template	Product	
Analysis	Fretsaw	Sander
		Relief



Using 2D Design, you will transfer your hand drawn designs onto CAD.

Using CAD helps to present work professionally, and adds to your portfolio of skills working towards GCSE level.



## Definition of Aerobic Endurance –

The ability of the **cardio-respiratory system** (heart, lungs, and blood vessels of the body) to supply **oxygen and nutrients to working muscles** during sustained physical activity.

This is where muscles sustain low to medium intensity of work and in doing so delay fatigue. *i.e. marathon*

**The fastest ever marathon time is 2hr:01min:39sec! (26.2 miles)**

# Component of fitness – Aerobic Endurance



Aerobic endurance means **'with oxygen'**.

During aerobic exercise, your heart pumps oxygenated blood to working muscles to help them burn fat and carbohydrate for fuel, which in turn enables you to perform for extended periods.



# Photosynthesis knowledge organiser

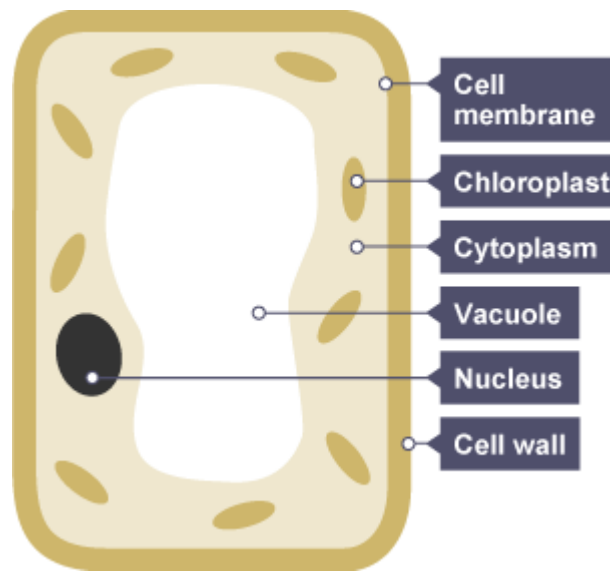
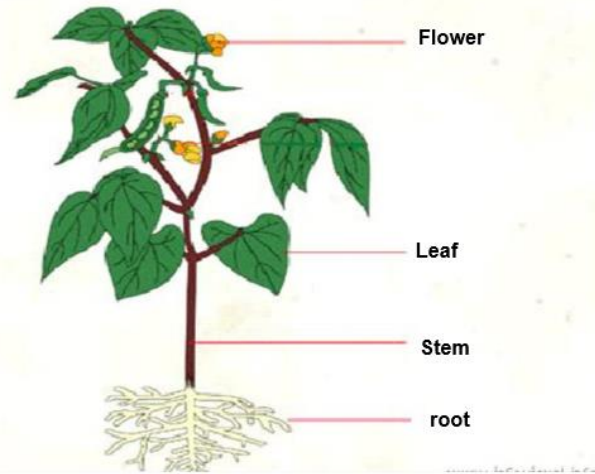
## Key points

Photosynthesis is a process that occurs in the leaves of a plant and needs both chlorophyll and light energy.

During photosynthesis, the chlorophyll in leaves help convert carbon dioxide and water into the products oxygen and glucose.

The product glucose acts as a vital source of food for the plant.

Carbon dioxide, water and light are all needed for photosynthesis to take place.



What is photosynthesis?  
Photosynthesis takes place inside plant cells in small objects called chloroplasts. Chloroplasts contain a green substance called chlorophyll. This absorbs the light energy needed to make photosynthesis happen. Plants and algae can only carry out photosynthesis in the light.

# Photosynthesis knowledge organiser

These are the things that plants need for photosynthesis:

- Carbon dioxide
- Water
- Light (a source of energy)

These are the things that plants make by photosynthesis:

- Glucose
- Oxygen

The word equation for photosynthesis in the presence of light and chlorophyll is:

**Carbon dioxide + water → glucose + oxygen**

## **Why is photosynthesis important?**

Photosynthesis provides organisms with oxygen, a gas that many living things need. Oxygen is a product of photosynthesis and is needed for respiration. All organisms respire to release energy and to stay alive.

## Uses of glucose

Glucose is a useful molecule that is made during the process of photosynthesis. The initial use for glucose, when broken down during respiration, is to release energy.

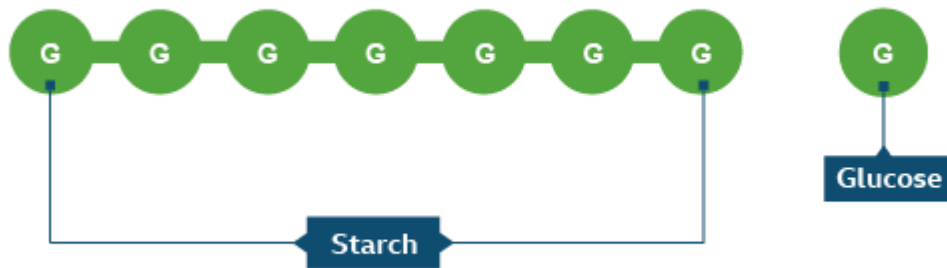
Plants only photosynthesise and synthesise glucose during the day when there is sunlight, but they use glucose for **respiration** all the time, including during the night.

## Cellulose

Glucose is used to make cellulose. Cellulose is an example of a natural polymer. Cellulose is the main component found in plant cell walls and this gives the plant cell strength and

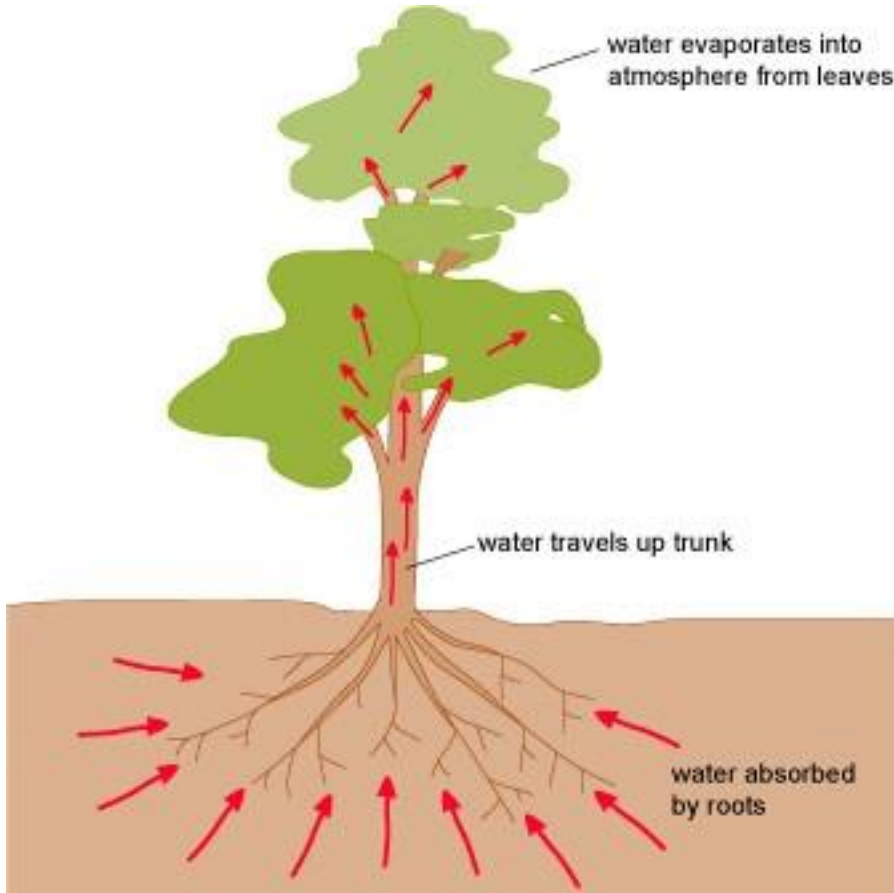
## Starch

Other uses of glucose produced from photosynthesis is to make the insoluble storage molecule starch. Most plants including rice, potatoes and wheat store their energy as starch. Starch is also a polymer and can be converted back to glucose by the plant when it is needed, for example at night for respiration.

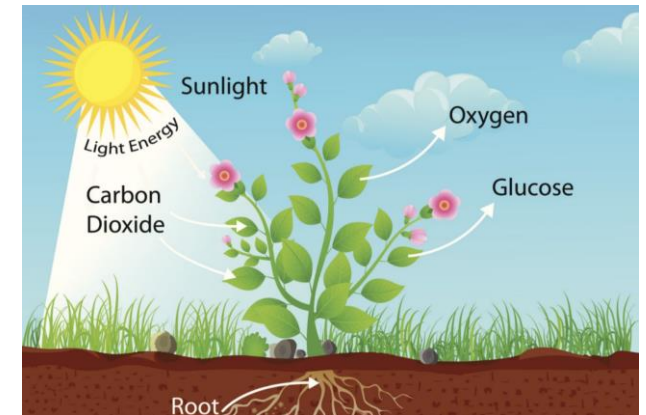
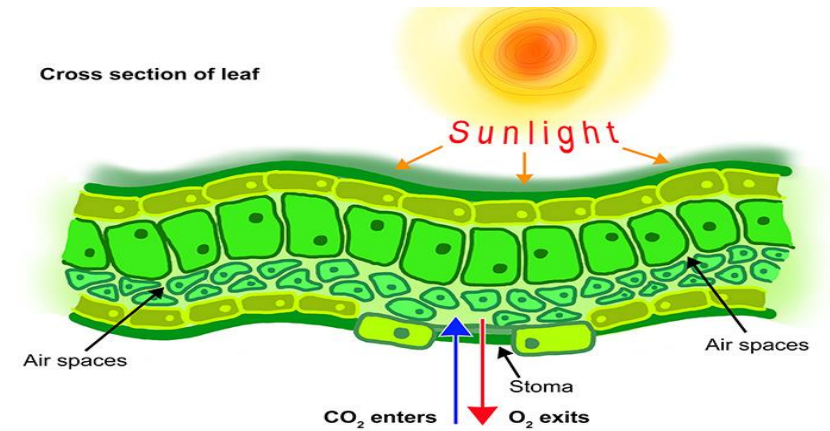


PLANTS ALSO MAKE FATS AND  
PROTEINS WITH GLUCOSE





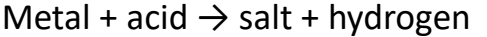
**Xylem** transports water and mineral salts from the roots up to other parts of the plant,



Carbon dioxide diffuses into the leaves of the plant through the stomata  
It moves from an area of high to an area of low concentration

# YEAR 8 REACTIVITY SERIES & DISPLACEMENT REACTIONS

Metals and acids  
 Acids react with some metals to produce a salt and hydrogen gas.

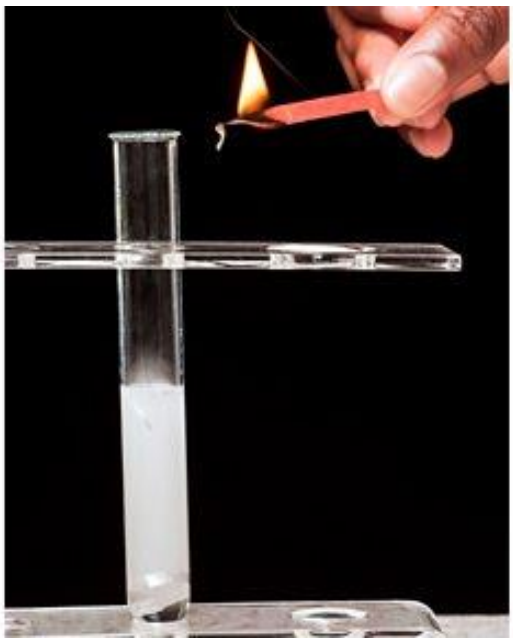


The abbreviation M.A.S.H. can be used to remember this general reaction.

When a metal is put in acid, it gets smaller and smaller as it gets used up in the chemical reaction.

At the same time, bubbles of gas can be seen. The bubbles produced in the reaction are hydrogen gas.

This can be proven using a burning splint because hydrogen is flammable. When the burning splint is put into the test tube containing hydrogen gas, a small explosion occurs, making a squeaky pop sound. This shows that hydrogen is present.



Increasing reactivity

Potassium	Please
Sodium	Send
Calcium	Charlie's
Magnesium	Monkeys
Aluminium	And
<b>CARBON</b>	<b>CRAZY!</b>
Zinc	Zebras
Iron	In
Lead	Lead
Copper	Cages
Silver	Securely
Gold	Guarded

## THE REACTIVITY SERIES (reactivity league table)

# YEAR 8 REACTIVITY SERIES & DISPLACEMENT REACTIONS



- |                  |                  |
|------------------|------------------|
| <b>Potassium</b> | <b>Please</b>    |
| <b>Sodium</b>    | <b>Send</b>      |
| <b>Calcium</b>   | <b>Charlie's</b> |
| <b>Magnesium</b> | <b>Monkeys</b>   |
| <b>Aluminium</b> | <b>And</b>       |
| <b>CARBON</b>    | <b>CRAZY!</b>    |
| <b>Zinc</b>      | <b>Zebras</b>    |
| <b>Iron</b>      | <b>In</b>        |
| <b>Lead</b>      | <b>Lead</b>      |
| <b>Copper</b>    | <b>Cages</b>     |
| <b>Silver</b>    | <b>Securely</b>  |
| <b>Gold</b>      | <b>Guarded</b>   |

The reactivity of a metal determines the method of extraction. Metals above carbon must be extracted using electrolysis. Metals below carbon can be extracted by reduction using carbon, coke, or charcoal. Gold and silver do not need to be extracted. They occur native (naturally).

	Reactions with water	Reactions with acid
Group 1 metals	<i>Reactions get more vigorous as you go down the group</i>	<i>Reactions get more vigorous as you go down the group</i>
Group 2 metals	<i>Do not react with water</i>	<i>Observable reactions include fizzing and temperature increases</i>
Zinc, iron and copper	<i>Do not react with water</i>	<i>Zinc and iron react slowly with acid. Copper does not react with acid.</i>

You can investigate the reactivity of metals using displacement reactions. The table shows the results from a series of experiments involving four metals and solutions of their salts. A tick shows where there is a visible reaction and a cross shows where there is no visible reaction.

	Magnesium	Zinc	Iron	Copper
Magnesium sulfate	X	X	X	X
Zinc sulfate	✓	X	X	X
Iron sulfate	✓	✓	X	X
Copper sulfate	✓	✓	✓	X
Reactions seen	3	2	1	0

### Displacement reactions

Displacement reactions involve a metal and a compound of a different metal. In a displacement reaction:  
 a more reactive metal will displace a less reactive metal from its compounds  
 Displacement reactions are easily seen when a salt of the less reactive metal is in the solution. During the reaction:  
 the more reactive metal gradually disappears as it forms a solution  
 the less reactive metal coats the surface of the more reactive metal

Magnesium + copper sulphate → magnesium sulphate + copper



## Extracting iron and copper

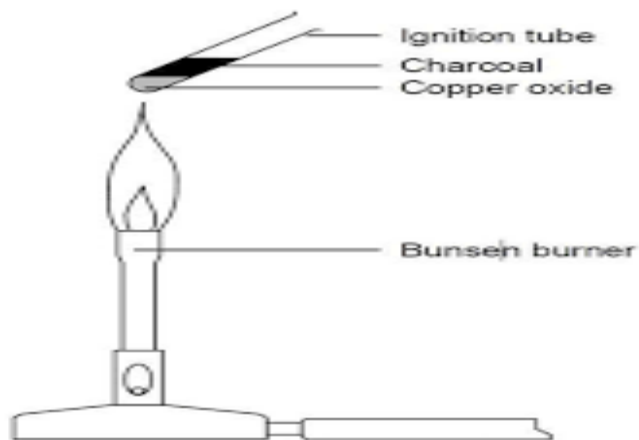
### Ores

**Unreactive metals** such as gold are found in the Earth's **crust** as the uncombined **elements**. However, most metals are found combined with other elements to form **compounds**.

Most metals are extracted from **ore** found in the Earth's crust. An ore is a rock that contains enough of a metal or a metal compound to make extracting the metal worthwhile.

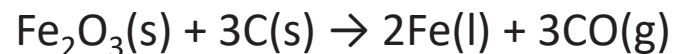
### Extraction methods

The **extraction** method used depends upon the metal's position in the **reactivity series**.



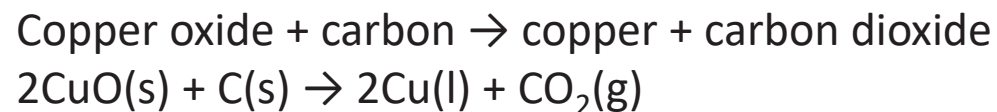
### Extracting iron

Iron(III) oxide is reduced to molten iron when it reacts with carbon. One of the products is carbon monoxide:



This method of extraction works because carbon is more reactive than iron, so it can **displace** iron from iron compounds. Extracting a metal by heating with carbon is cheaper than using electrolysis.

If a metal is less **reactive** than carbon, it can be extracted from its compounds by heating with carbon. Copper is an example of this. Copper mostly occurs as sulfide ores, which are heated in air to convert them to copper(II) oxide. **Molten** copper can be produced from copper oxide by heating with carbon:



Copper oxide is **reduced** as carbon is **oxidised**, so this is an example of a **redox** reaction.

# FORCES AND MOTION

## Balanced forces

When two forces acting on an object are equal in size but act in opposite directions, we say that they are **balanced forces**.

If the forces on an object are balanced (or if there are no forces acting on it), this is what happens:

- a stationary object stays still
- a moving object continues to move at the same speed and in the same direction

Remember that an object can be moving, even if there are no forces acting on it.

## Unbalanced forces

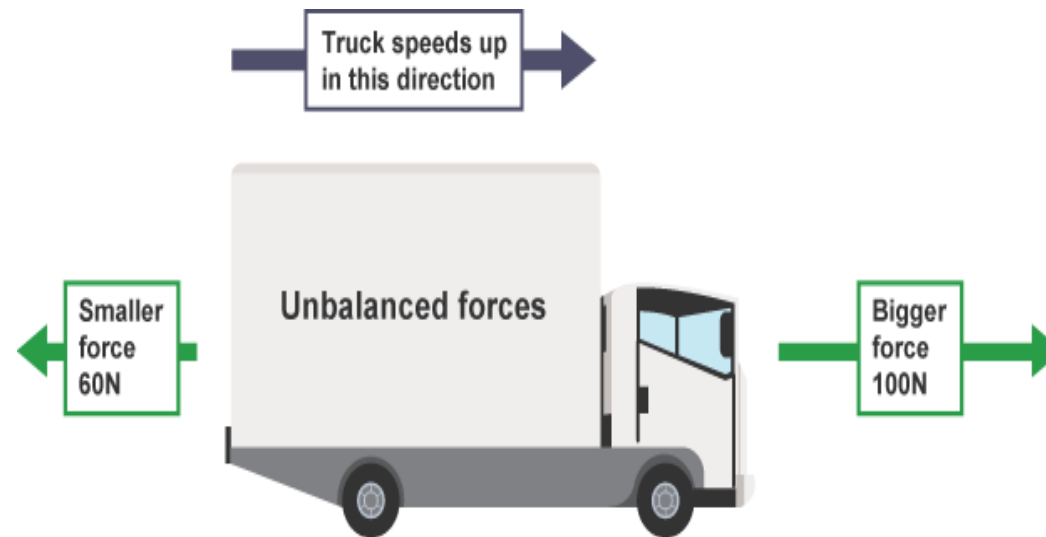
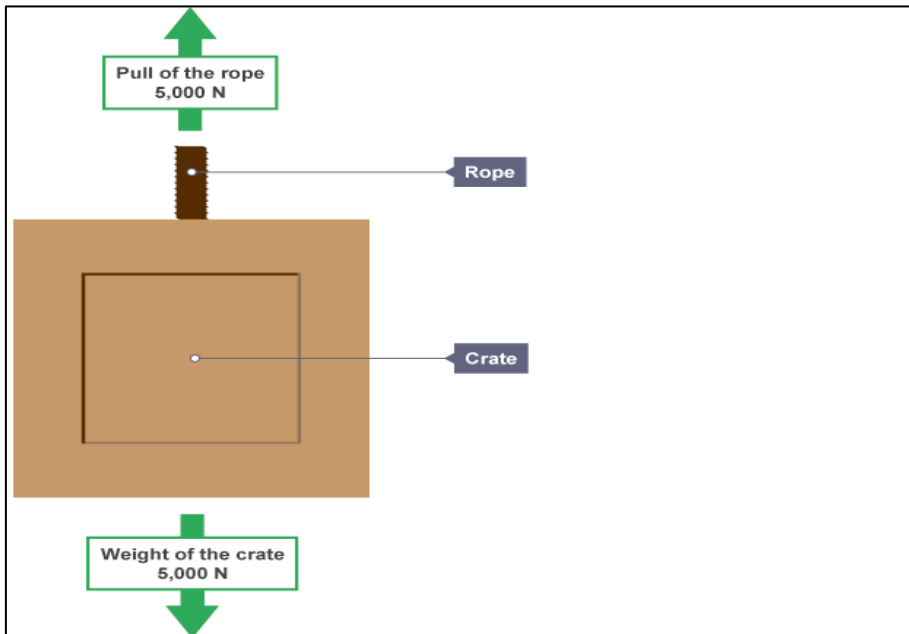
When two forces acting on an object are not equal in size, we say that they are unbalanced forces. The overall force acting on the object is called the **resultant force**. If the forces are balanced, the resultant force is zero.

If the forces on an object are unbalanced, this is what happens:

- a stationary object starts to move in the direction of the resultant force
- a moving object changes speed (accelerates or decelerates) and/or direction in the direction of the resultant force

In the example below, the resultant force is the difference between the two forces:

$$100 - 60 = 40 \text{ N (to the right)}$$



## Speed, distance and time

**Distance** is how far an object moves.. **Speed** is the **rate of change** of distance - it is the distance travelled per unit time

$$\text{Speed (m/s)} = \text{distance (m)} \div \text{time (s)}$$

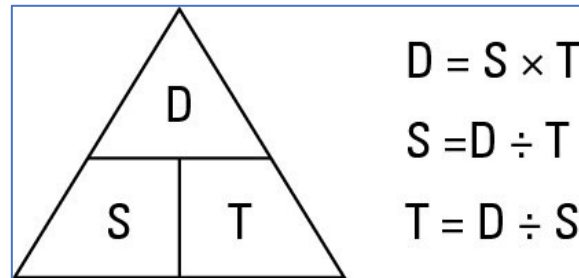
$$\text{Distance} = \text{Speed} \times \text{time}$$

$$\text{Time} = \text{Distance} \div \text{speed}$$

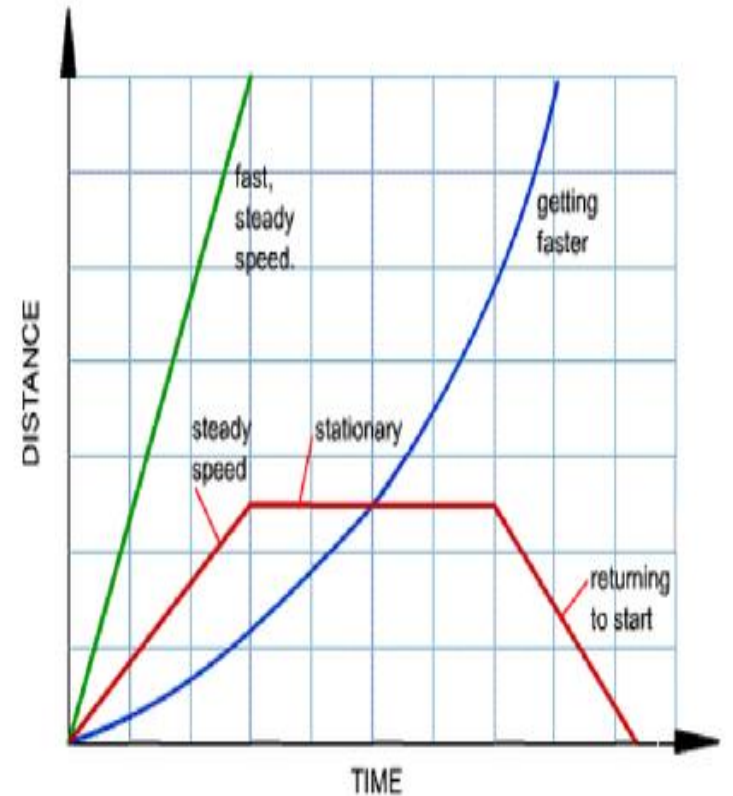
$$\text{speed} = \text{distance} / \text{time}$$

$$\text{distance} = \text{speed} \times \text{time}$$

Average speed is distance divided by time.



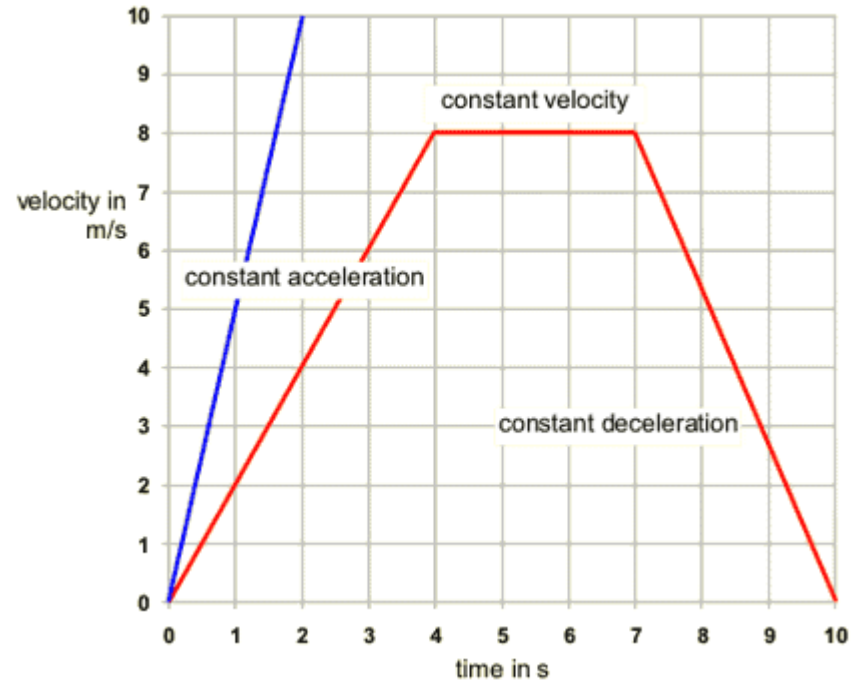
**Distance-time graphs.** If an object moves along a straight line, the distance travelled can be represented by a distance-time graph. In a distance-time graph, the gradient of the line is equal to the speed of the object. The greater the gradient (and the steeper the line) the faster the object is moving.



Distance-time graphs



# Speed-time graphs (extension)



When speed is increasing we say it is **accelerating**. We measure acceleration in  $\text{m/s}^2$ . The steeper the gradient, the bigger the acceleration. As the line is straight, it is a **constant acceleration**. If the line is horizontal the object is travelling at a constant speed

## Summary

The internet is a network of billions of devices that allows you to access resources and connect with other people on our planet. We are getting close to 8 billion people on planet Earth, each human has one or more internet-enabled devices. The world of the internet is always active and never takes a break. This allows you to complete assignments, research and homework at any time that suits you, on many devices. The world of internet never sleeps.

How does the internet work?

It's a large number of computers that are in a **network** all over the world. It relies upon the **wire**, physical cables under our city streets and the cables on the ocean floors and **wireless**. **Wireless examples include** satellites in orbit around our planet and Wifi/3G/4G/5G —that makes this communication possible.

Computers need a set of rules to have a chat, they are not as smart as humans. Anyone using smart speaker or voice-controlled personal assistant such as Alexa will know the frustrations. The **rules** computers use to speak to each other are named **protocols**.

*Careers include Cloud Computing Engineer, Computer Network Specialist, Information Security Specialist, Computer Support Specialist, Software/Application Developer, Games Designer and Web Developer*

## Internet Services

Internet Services allows us to access huge amount of information such as text, graphics, sound and software over the



## Internet of Things (IoT)

IoT is short for Internet of Things. The Internet of Things refers to the ever-growing network of physical objects that feature an IP address for internet connectivity, and the communication that occurs between these objects and other Internet-enabled devices and systems.



## Smart Devices

A **smart device** is an electronic **device**, generally connected to other **devices** or networks via different wireless protocols such as Bluetooth, NFC, Wi-



## Big Data

Big data is very large sets of data that are produced by people using the internet, and that can only be stored, understood, and used with the help of special tools and methods: Supermarkets use big data to track user behaviour and target customers with things they like.

## Key Vocabulary

<b>Big Data</b>	Lots of data produced from online activity
<b>Http</b>	Tells the computer to use the hyper text transfer <b>protocol</b> for communicating with the website
<b>Internet</b>	The internet is a global network of computers.
<b>Internet of Things IoT</b>	Devices that connect to the internet
<b>Protocol</b>	A set of rules or procedures for transmitting data between electronic devices
<b>Smart Devices</b>	A device that is connected using different protocols such as Bluetooth and Wi-Fi.
<b>URL</b>	A website's address. Each address contains the prefix 'http' which tells the computer to use the hyper text transfer <b>protocol</b> for communicating with the website.
<b>World Wide Web</b>	World Wide Web is the part of the internet that can be accessed through websites



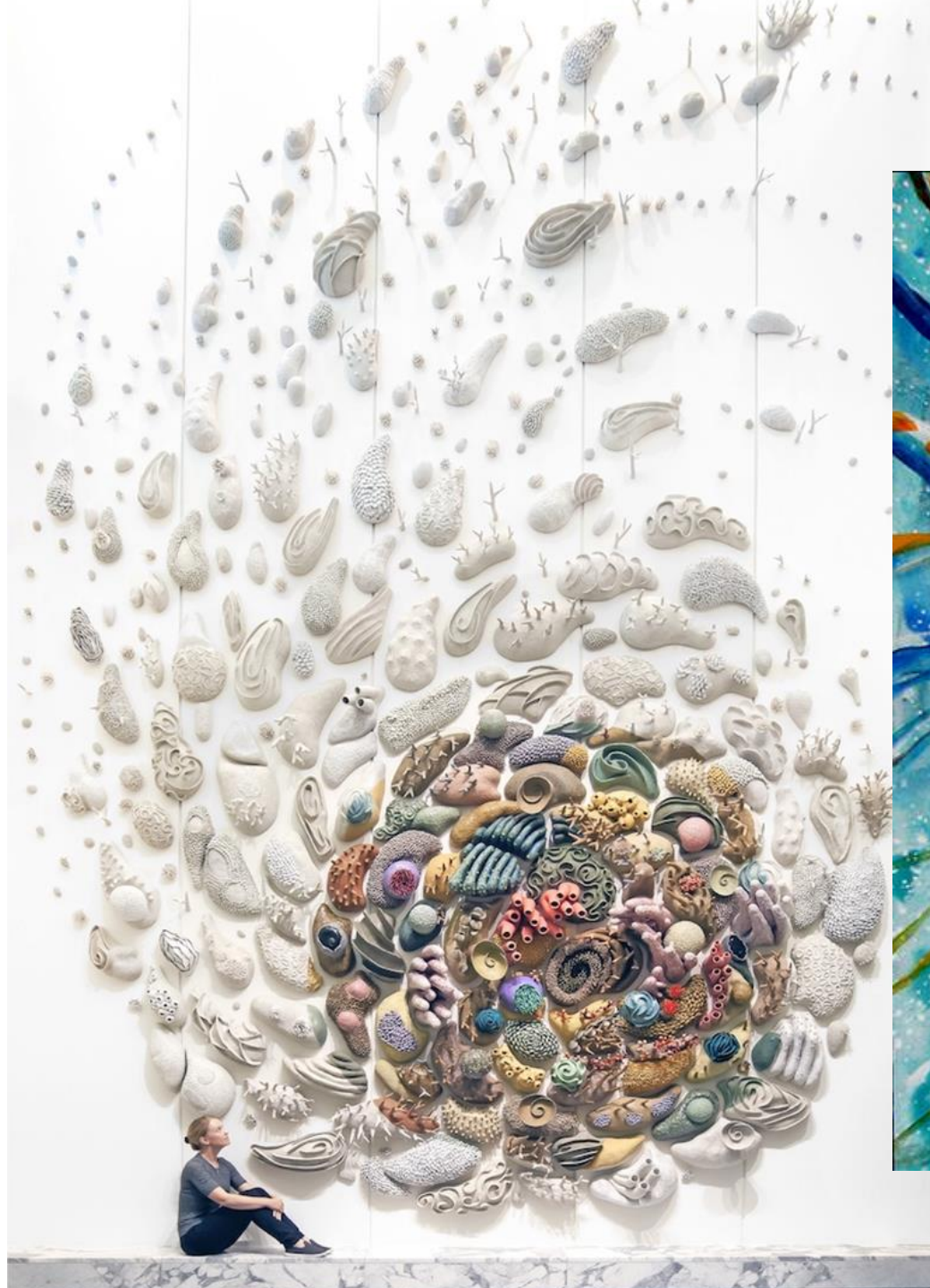
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# Sea Sculpture

This summer term year 8 study artwork with a theme of the sea. They look at ceramic artist Heather Knight and how she uses sea creatures and shells as inspiration.

They design their own sea sculpture vessel and make it in air drying clay. They then paint it using natural sea colours.



## Task:

Create two designs showing **applied** textures.

Create two designs showing **incised** textures.



Use the next page of resources to help you



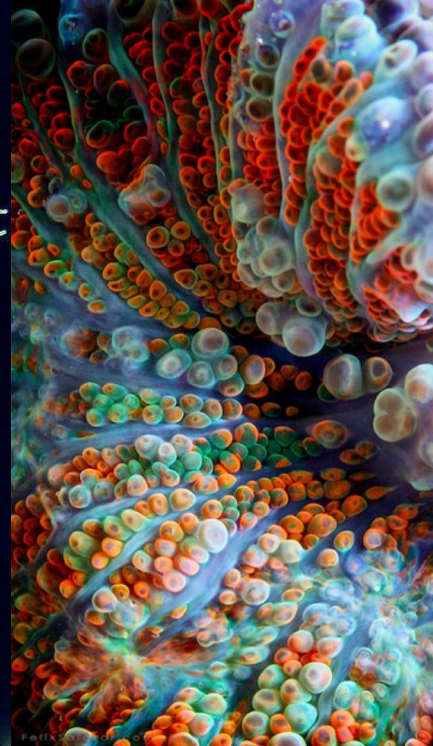
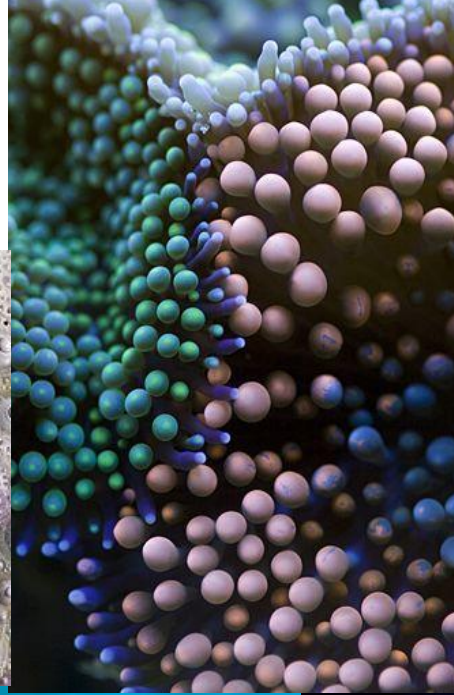
**“The Great Wave”**

**Hokusai  
19<sup>th</sup> century**





# Texture UNDER WATER







# Year 8 Knowledge organiser: Weather and Climate



## Topics covered

- ✓ Weather types
- ✓ Weather vs Climate
- ✓ Measuring weather
- ✓ Rainfall and cloud types
- ✓ High and Low pressures
- ✓ Changing weather/fronts
- ✓ Atlantic storms
- ✓ Climate and climate change
- ✓ Global climates

## Key Ideas:

1. I can describe weather in different places
2. I can explain the main causes of different weather and climate
3. I can measure/interpret weather and climate data
4. I can explain how rainfall, air pressure and air masses vary
5. I can explain what happens in Atlantic storms

## Skills

- ☐ To interpret weather maps and symbols
- ☐ To use digital mapping to investigate Atlantic Storms/Hurricanes
- ☐ To analyse a range of climate data to describe climate variation
- ☐ To construct/ be familiar with weather measurement techniques
- ☐ To write a detailed piece of extended writing

## Places and Environments

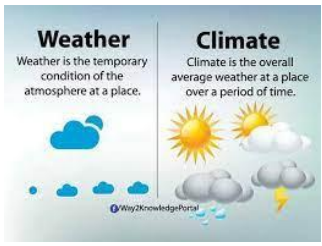
- ❖ Plymouth
- ❖ Newcastle
- ❖ The Lake District
- ❖ Wales
- ❖ UK
- ❖ Russia
- ❖ Egypt

## Key Terms Used in this Unit

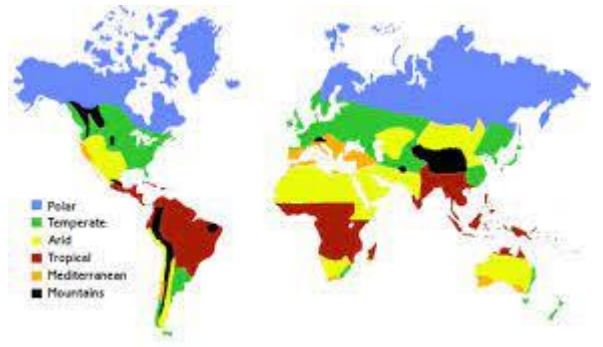
- ☐ Water vapour
- ☐ Climate
- ☐ Troposphere
- ☐ Precipitation
- ☐ Humidity
- ☐ Meteorologist
- ☐ Centigrade
- ☐ Okta's
- ☐ Barometer
- ☐ Anemometer
- ☐ Convictional rainfall
- ☐ Relief Rainfall
- ☐ Frontal Rainfall
- ☐ Cumulus
- ☐ Stratus
- ☐ Cirrus
- ☐ Warm front
- ☐ Cold front
- ☐ Depression
- ☐ Prevailing Wind



**Weather forecasting**  
 What does a weather forecast tell us?  
 Can you list 5 groups of people who depend on the weather forecast?



**How has the weather been over the last week?**  
 Make a note of the weather changes you have seen:  
 Sunlight hours/Rainfall/Cloud cover/Wind speeds

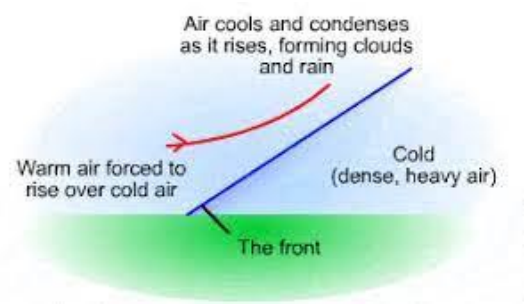
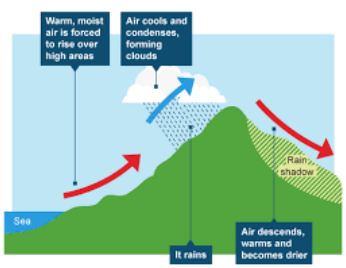


The world is separated into different climate zones  
 Which climate zone is the UK in?  
 Why do you think the zones are in horizontal bands?

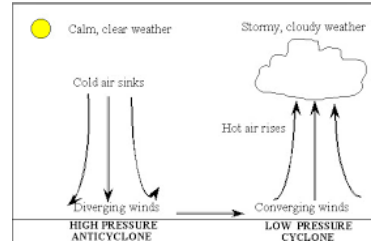
**Rainfall - The UK gets a lot of it!** We are very close to the Atlantic Ocean compared to other parts of Europe. We are also at a junction where cold air from the North meets warmer air from the south.

This means we have weather 'fronts' or boundaries where they meet and leads to rain. Where air is forced up over mountains we get 'relief' rainfall.

Can you name places in the UK that would get more 'relief' rainfall?



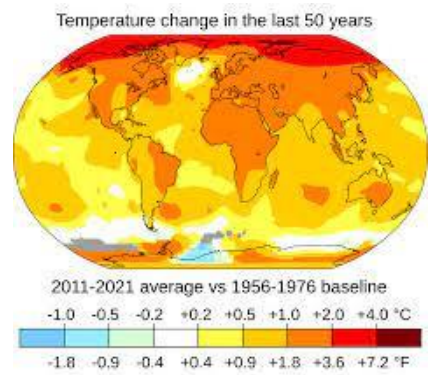
Warm air expands and rises. Cool air sinks.  
 Which type of air pressure has East Anglia received recently?



Weather recording instruments vary.  
 How could you design and make a home made rain gauge?



**Storms - At certain times we get powerful storms off of the Atlantic.**  
 Do you remember when a storm occurred?  
 What damage did this cause?



Our global climate is changing as greenhouse gases continue to rise.  
 The world is gradually warming.  
 How could this affect people and the environment?

<b>Anemometer</b>	An instrument used to measure wind speed.	
<b>Thermometer</b>	An instrument used to measure temperature.	
<b>Hygrometer</b>	An instrument used to measure humidity = the amount of water vapor in the air.	
<b>Wind Vane</b>	An instrument used to show the direction of the wind.	
<b>Barometer</b>	An instrument used to measure atmospheric pressure = high and low pressure.	
<b>Rain Gauge</b>	An instrument used to measure rain.	

## Module 3: Bleib gesund! (Keeping healthy!)

Here is the vocabulary you will need for Stimmt 2, Module 3.

### **Das Frühstück • Breakfast**

der/das Joghurt	<i>yoghurt</i>
der Käse	<i>cheese</i>
der Schinken	<i>ham</i>
der Speck	<i>bacon</i>
der Toast	<i>toast</i>
der Kaffee	<i>coffee</i>
der Tee	<i>tea</i>
der Orangensaft	<i>orange juice</i>
die Butter	<i>butter</i>
die Marmelade	<i>jam</i>
die Orangenmarmelade	<i>marmalade</i>
die Milch	<i>milk</i>
die heiße Schokolade	<i>hot chocolate</i>
das Brötchen	<i>roll</i>
das Obst	<i>fruit</i>
das Ei	<i>egg</i>
die Eier (pl)	<i>eggs</i>
die Frühstücksflocken (pl)	<i>cereal</i>

In this Module you will learn how to:

- talk about typical breakfasts
- discuss typical German food
- understand and use recipes
- talk about healthy lifestyles
- understand and respond to longer texts
- describe and compare dinner parties

[www.textivate.com](http://www.textivate.com)

Username: openacademy

Password: On Teams in Class Materials

Go to 'my resources' to find your work.



## Was isst du zum Frühstück?

### • What do you eat for breakfast?

Ich esse einen Joghurt.	<i>I eat a yoghurt.</i>
ein Brötchen mit Butter und Marmelade	<i>a roll with butter and jam</i>
Ich esse kein Frühstück.	<i>I don't eat any breakfast.</i>
Max isst Toast mit Butter.	<i>Max eats toast with butter.</i>
Ellie und Sarah essen Eier.	<i>Ellie and Sarah eat eggs.</i>
Ich trinke einen Kaffee.	<i>I drink a coffee.</i>
eine Tasse Tee	<i>a cup of tea</i>
Das ist (un)gesund.	<i>That's (un)healthy.</i>
Das ist lecker/furchtbar.	<i>That's delicious/awful.</i>

## Die Speisekarte • Menu

(der) Fisch mit Reis und Erbsen	<i>fish with rice and peas</i>
(der) Flammkuchen mit Sauerkraut	<i>Flammkuchen with pickled cabbage</i>
(die) Bratwurst mit Eiern	<i>fried sausage with eggs</i>
(die) Gemüsesuppe mit Brötchen	<i>vegetable soup with a roll</i>
(das) Hähnchen mit Pommes frites und Karotten	<i>chicken with chips and carrots</i>
(das) Schnitzel mit Kartoffeln	<i>pork fillet in breadcrumbs with potatoes</i>
(das) Steak mit Rösti	<i>steak with rösti potatoes/ hash browns</i>
(die) Käsespätzle mit Salat	<i>speciality cheesy pasta with salad</i>



## Wie ist das? • What is it like?

süß	<i>sweet</i>
sauer	<i>sour</i>
salzig	<i>salty</i>
scharf	<i>spicy</i>
vegetarisch	<i>vegetarian</i>
lecker	<i>delicious</i>
ekelhaft	<i>disgusting</i>

## Im Restaurant • In the restaurant

Was nimmst du?	<i>What are you having?</i>
Ich nehme ...	<i>I'll take/I'm having ...</i>
den Fisch	<i>the fish</i>
die Gemüsesuppe	<i>the vegetable soup</i>
das Hähnchen	<i>the chicken</i>
die Nudeln	<i>the pasta</i>

## Ein Rezept • A recipe

Nimm ...	<i>Take ...</i>
150 Milliliter Milch	<i>150 millilitres of milk</i>
50 Gramm Butter	<i>50 grams of butter</i>
eine Zwiebel	<i>an onion</i>
Schneide ...	<i>Cut ...</i>
Misch ...	<i>Mix ...</i>
Stell ...	<i>Put ...</i>
Erhitze ...	<i>Heat ...</i>
Rühre ...	<i>Stir ...</i>
Serviere ...	<i>Serve ...</i>

## Mein Lieblings sandwich

### • My favourite sandwich

das Ketchup	<i>ketchup</i>
der Senf	<i>mustard</i>
der Thunfisch	<i>tuna fish</i>
die Erdnussbutter	<i>peanut butter</i>
die Gurke	<i>gherkin</i>
die Mayo	<i>mayonnaise</i>
die Olive	<i>olive</i>
die Sardelle	<i>sardine, anchovy</i>



## Oft benutzte Wörter

### • High-frequency words

normalerweise	<i>usually</i>
gestern	<i>yesterday</i>
bis	<i>until</i>
früh	<i>early</i>
spät	<i>late</i>
mehr	<i>more</i>
wenig	<i>little</i>
weniger	<i>less, fewer</i>
oft	<i>often</i>
besser	<i>better</i>
mein	<i>my</i>
dein	<i>your</i>
sein	<i>his</i>
ihr	<i>her</i>
mit	<i>with</i>
ohne	<i>without</i>
in	<i>in, into</i>
auf	<i>on, onto</i>

## Gesund bleiben • Staying healthy

Man muss ...	<i>One/You/People must ...</i>
acht Stunden schlafen	<i>sleep for eight hours</i>
wenig Fett und Zucker essen	<i>eat little fat and sugar</i>
viel Obst und Gemüse essen	<i>eat lots of fruit and vegetables</i>
mehr Wasser trinken	<i>drink more water</i>
früh ins Bett gehen	<i>go to bed early</i>
drei Stunden trainieren	<i>exercise for three hours</i>
zweimal pro Woche joggen	<i>jog twice a week</i>

## Strategie 3

### Kognaten und falsche Freunde

Cognates and near-cognates are words that are spelled exactly the same or nearly the same as English words and have the same meaning in German. It is helpful to identify these as you can learn them quickly and easily. Look at the word lists on these pages and find all the cognates and near-cognates. You will find more than 20.

Watch out for **falsche Freunde** ('false friends'). These are tricky words that look like cognates but have a different meaning. What does **Marmelade** actually mean?

Read the Strategy Box for ideas about 'false friends'.

## Die Mahlzeiten • Mealtimes

die Vorspeise	<i>the starter</i>
die Hauptspeise	<i>the main course</i>
die Nachspeise	<i>the dessert</i>

## Year 8 History: Democracy and the Suffrage Movement

Britain prides itself in being a **DEMOCRACY**. This means people have an equal say in who runs the country and how. But in the 1800s it meant something very different to today...

The people were not equally represented through enough **CONSTITUENCIES**

To vote you had to be over 21, own property and **MALE** (only 3% of men could vote)

There were only two main parties: **WHIGS** and **TORIES**

Voting was not anonymous

**GENERAL ELECTIONS** were held every 7 **YEARS**

The **Chartists** are an example of a campaign group that tried to change this:

This was a **working-class** movement, which emerged in 1836 and was most active between 1838 and 1848. The aim of the **Chartists** was to gain political rights and influence for the working classes.



Chartists argued more men should be able to vote., MPs should be paid, secret ballot, annual elections, equal-sized electoral districts. They organised huge rallies and petitions to Parliament in the 1840s. Although there was a Chartist riot in Newport in 1839, Britain avoided the revolutions that swept Europe in 1848. Most of the Chartists demands eventually became law.

### Timeline of Key Events

1897	<b>NUWSS</b> formed. Millicent Fawcett is leader.
1903	<b>WSPU</b> formed by Emmeline Pankhurst and daughters.
1905	Militant Campaign begins
1908	Mass rally in London – 300,000 to 500,000 activists attend. Window smashing using stones with written pleas on them.
1909	Hunger strike and force feeding starts – Marian Wallace Dunlop becomes the first hunger striker.
1913	Militant bomb and arson campaigns and increasing arrests which results in the passing of the <b>“Cat and Mouse” Act</b> : hunger strikers temporarily released then rearrested to prevent dying in police custody
1913	Emily Wilding Davison attempts to pin a <b>Suffragette</b> scarf onto the King’s Horse at the Derby. She is struck by the horse and dies 4 days later.
1914	WW1 starts – <b>Suffragette</b> leaders urge women to join the war effort. <b>NUWSS</b> continues to campaign for recognition for their work.
1918	The <b>Representation of the People Act</b> is passed, allowing men over 21 and women over 30 to vote.

#### Emmeline Pankhurst – WSPU

Led the WSPU from October 1903. Took more militant action such as windows smashing, **arson** and **hunger strikes**. Arrested numerous times, went on **hunger strike** and was force fed. Died in 1928.

#### Christabel Pankhurst – WSPU

Became a speaker for the WSPU in 1905. She trained as a lawyer but could not practice as woman. Arrested with her mother. Fled England in 1912 for fear of being arrested again. Unsuccessfully ran for Parliament in 1918.

#### Emily Wilding Davison – WSPU

Joined WSPU in 1906. Became a **suffragette** full time. Frequently arrested for number of crimes inc. setting fire to post box. By 1911, become increasingly militant.

#### Millicent Fawcett – NUWSS

Leading **suffragist** and led **NUWSS**. Played a key role in getting women the vote. Dedicated to using **constitutional** means, and argued that **militancy** was counter-productive.



## Year 8 History: WW1

Activity: Draw a timeline of events. Use the table of key events as a starting point. Try to find sources that link to each event. Augment your timeline with other events during the war.

Timeline of Key Events	
28 June 1914	Assassination of Arch-Duke Franz Ferdinand
4 August	Britain declares war on Germany
August to December 1914	Germany's Schlieffen Plan fails to defeat France and Britain quickly; system of trenches is dug from Switzerland to the English Channel: <b>STALEMATE</b>
April 1915	Second Battle of Ypres – poison gas used for the first time
31 May–1 June 1916	Battle of Jutland – the only major sea battle of the war proves inconclusive
1 July – Nov	Battle of the Somme
6 April 1917	USA declares war on Germany
March 1918	Russia signs the Treaty of Brest Litovsk with Germany after the Bolshevik Revolution
9 Nov 1918	Kaiser Wilhelm abdicates
11 Nov 1918	Germany signs armistice, ending the war

Why did British men join up in 1914?	
Patriotism	British men were brought up to love their King and country
Social pressure	Fear of being called a coward or being given a white feather by a woman
Sense of adventure	Many British men had never travelled abroad – this was a chance to see the world!
Propaganda	British propaganda posters used very persuasive techniques
Belief in a quick victory	Many men thought that the war would be 'over by Christmas'

### Long-Term Causes of World War One

**Militarism** – the arms race between Britain and Germany to build Dreadnaughts resulted in increasing tension and conflict between them

**Alliances** – the Triple Alliance (Germany, Austria-Hungary and Italy) and Triple Entente (Britain, France and Russia) had agreed to support each other in a war

**Imperialism** – Britain and France had large empires overseas. Germany wanted an empire too, but most of the available land had already been taken, resulting in tension between the 'great powers'

### Short-Term Causes of World War One:

Assassination of Franz Ferdinand – Serbian nationalist Gavrilo Princip shot and killed the heir to the Austro-Hungarian throne, along with his wife, while was visiting Sarajevo. This caused Austria to declare war on Serbia, which led to Russia attacking Austria and a domino effect of other nations joining in...



Which new weapons helped Britain to win the war?

**Tanks:** First used in 1916, they broke through German defences and sheltered British troops in getting across **NO MANS LAND**

**Poison gas:** Although cruel and at the mercy of the weather, it instilled fear into soldiers on both sides

**Airplanes:** Very useful for reconnaissance and bombing / preventing bombing raids

**Artillery:** Forced Germans to remain in their shelters while the British advanced

Why did Germany surrender in November 1918? American entry into the war, Failed German/Ludendorff offensive, German civilians starving due to the Allied Blockade of German ports. This all put pressure on the Kaiser to surrender.



# READING: CHARACTER

## KEY VOCABULARY

### PROTAGONIST

The main character in the story.

### ANTAGONIST

In conflict or opposition to the protagonist.

### HERO

A central character admired for courage, outstanding achievements, or noble qualities. They often act in ways that set them above ordinary people.

### ANTI-HERO

A central character who lacks the qualities associated with a hero. They are often liked by readers but may have undesirable qualities.

### ARCHETYPE

Character types that are similar from story to story. These character types appear in multiple different stories from cultures around the world.

Example archetypes include:

- the chosen one
- the outsider
- the leader
- the trickster
- the mentor

Think of books, movies, tv shows and games you know. Can you identify any of these character types in those stories?

### DISCUSSING CHARACTERS

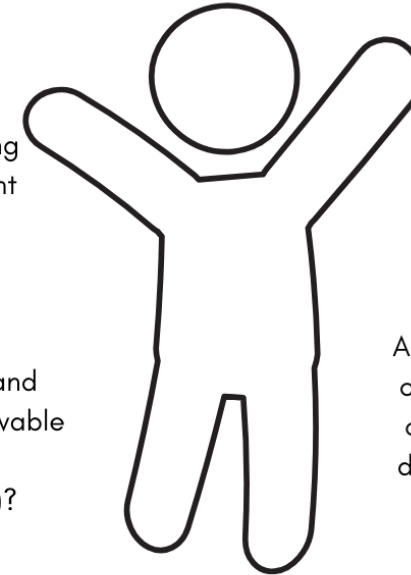
Who is telling the story?  
Why do you think the story is told from their point of view?

Who is your favourite character, and why?

Are the characters interesting and engaging (even if the reader might not like them.)

Are the characters and their motivations believable and convincing? (Do they feel real)?

How does the character interact with others. Does this seem realistic?



Can you think of 5 adjectives to describe the character?

Are the characters typical of ones found in this kind of story/novel? Are they distinctive and individual, or stereotypes?

Who do you think is the most important character, and why?

## Plot Summary

**Chapter 1** - Schoolboys have crash landed on a deserted island. The reader meets Ralph and Piggy. Piggy has asthma. They find a conch and use it to summon any other survivors including twins SamnEric, Jack and Simon.

**Chapter 2** - The boys focus on short term pleasure and fun. Ralph suggests building a fire to be rescued. Jack just wants to hunt. A boy with a birth mark tells of 'the beast.' He goes missing after the fire and the boys are ashamed.

**Chapter 3** - Ralph wants to build shelters but only Simon helps whilst the others play and Jack hunts. The fire has been allowed to go out. Simon slips away to meditate.

**Chapter 4** - Island life gets a rhythm. Mornings are pleasant because it is cool but evening is not because people worry about the beast. A boat goes past but there is no fire to attract it. Piggy is laughed at for sundials. Jack paints his face and hunts and kills a pig chanting "Kill the Pig. Cut her throat. Spill her blood." Ralph walks away.

**Chapter 5** - Ralph calls a meeting to get people to follow the rules, but he and Jack are more apart than ever. There is talk of the beast; a little un suggesting it comes from the ocean at night. Jack just wants to hunt and won't listen to the rules of the conch. Ralph wishes for adults.

**Chapter 6** - A dead parachutist floats onto the Island. No one sees because the fire is out. When they awake, SamnEric light the fire and see him, but they think it is a beast. Jack finds a rock and some boulders.

**Chapter 7** - Jack and Ralph continue to clash as they search for the beast. Ralph kills a boar and is flushed with excitement.

Robert is almost killed in the re-enactment. Later they head up the mountain and see the beast and are terrified.

**Chapter 8** - Jack declares himself chief of his own group. Simon meditates alone and learns what the beast is. Piggy tries to cheer Ralph up with talk of a new fire. The savages dance around as they kill a sow, with Roger being very brutal.

**Chapter 9** - A storm comes and they have no shelter. Ralph acts like a king.

**Chapter 10** - Jack's gang have moved to 'castle rock'. Ralph, Piggy and SamnEric remain but cant keep the fire going alone. Jack steals Piggy's glasses whilst the others protect the conch.

**Chapter 11** - The boys go to castle rock to confront Jack. Jack attempts to kill Ralph with a spear. He flees. Jack's group torture SamnEric to get them to join them.

**Chapter 12** - SamnEric are tortured into revealing Ralph's hiding place. Jack vows to burn down the forest to find him.

# Year 8 - Summer 1 - Lord of the Flies

## Context

- **Golding's** experiences in WW2 showed him the evils of human nature.
- During the **cold war**, fears of nuclear annihilation gripped society.
- **British public schools** emphasised civility and 'stiff upper lip'.
- **Totalitarian** governments such as Nazi Germany and Stalinist Russia controlled people through fear

## Key Terminology

**Allegory** - a narrative that has a message for its readers

**Foreshadowing** - hint/indication of a future event in the narrative

**Metaphor** - describing something by saying it is something else

**Garden of Eden** - biblical narrative which explores the human change from innocence to sin

**Pathetic Fallacy** - natural world, such as the weather, being used to mirror a character's feelings or the atmosphere/tone.

**Personification** - human characteristics given to inanimate objects

**Symbolism** - the use of symbols to represent ideas or qualities

**Natural Imagery** - natural world images (animals, landscape etc.) being used to help the reader visualise the scene.

**Totalitarian** - a system of government that is dictatorial and requires complete subservience to the state

## Key Themes

**HUMAN NATURE** : the book is an **allegory** for human nature and society.

**CIVILISATION and SAVAGERY** : the boys descend into brutality as they become further removed from civilisation.

**LOSS OF INNOCENCE**: usually a symbol of naivete and innocence, the boys become increasingly brutal.

**THE WEAK & THE STRONG**: The big 'uns prey on the little 'uns as the island becomes survival of the fittest.

**SPIRITUALITY & RELIGION**: Simon is a Christ like figure who sacrifices himself so the boys can know the truth.

## Symbolism

**The conch** - power and order

**The lord of the flies** - the devil

**Piggy's glasses** - hope

**The island** - isolation

**Fire** - initially rescue then destruction

**The 'beast'** - the primal instinct of savagery that exists within all human beings

## Key Characters

**Ralph** : the largest and most physically powerful. Wants to plan and follow rules, but even he is sometimes seduced by savagery. **Symbolises: law, government and civil society.**

**Piggy** : the smartest boy but has asthma and is overweight so bullied. Has a tendency to lecture and is ridiculed. **Symbolises: science and rationality**

**Jack** : Leader of the hunters. Loves to hunt and kill gets angry when he doesn't get his way. Believes a leader should be obeyed. **Symbolises: dominance and power**

**Simon** : Dreamy, dark haired boy prone to fits. He recognises that the beast is within them. He is unafraid and meditates. **Symbolises: Religion and spirituality.**

**Roger**: Quiet and intense at first then becomes more evil. He tortures SamnEric and likes to inflict pain . **Symbolises: Sadism**

**Little 'uns**: Not easy to distinguish. They are fearful, terrified of the beast and just want to play.

**Symbolises: every day people who are manipulated by leaders**



## Year 8 - Summer 1 - Lord of the Flies

### Art & Music Links

**Abstract Expressionism** - following WW2 the art world's focus shifted from Europe to The United States of America, centred in New York. Artists felt that art should come from the unconscious mind.



Pollock - Summertime

**Music** - post WW2 Europe saw a move away from the big bands of the 1940s and to a more modern sound of smaller bands. Musicians became more experimental and this gave rise to a new style of music called Avant Garde. A genre which embraced Avant Garde particularly was Jazz. John Coltrane was an influential Avant Garde Jazz composer. John Coltrane & Don Cherry: <https://www.youtube.com/watch?v=Zx3KG45Kacc>

### The Open Values in Lord of the Flies:

[Leadership](#) [Teamwork](#) [Hard Work](#) [Perseverance](#) [Thankfulness](#)

These are demonstrated for the good in characters such as Ralph, Piggy & Simon, but also what happens without these values through characters like Jack & Roger

**Careers** <https://www.prospects.ac.uk/careers-advice/what-can-i-do-with-my-degree/english>

### Ambitious Vocabulary

**Anarchy** - a state of disorder due to lack of

**Antagonism** - active hostility or opposition

**Authority** - the power to give orders and make decisions

**Avidly** - doing something with great interest or enthusiasm

**Barbaric** - savagely cruel/primitive

**Civility** - formal politeness in behaviour or speech

**Clamour** - a loud and confused noise, especially from shouting

**Contrite** - feeling remorse at recognising you have done wrong

**Dubious** - to be hesitant or unsure of something

**Endure** - to suffer something for a long time

**Errant** - travelling in search of adventure/straying from what is expected of you

**Furtive** - attempting to avoid notice or attention, typically because of guilt

**Grave** - serious or solemn, often giving cause for worry.

**Immure** - to enclose or confine someone against their will

**Indignant** - feeling anger or annoyance at perceived unfair treatment

**Hostile** - showing or feeling opposition or dislike; unfriendly

**Humane** - showing kindness, care and sympathy towards others

**Instinctive** - done without conscious thought

**Justice** - the quality of being fair

**Mutiny** - an open rebellion against authority

**Officious** - asserting authority in a domineering way

**Oppressive** - harsh and cruel treatment

**Recrimination** - people blaming each other

**Scornful** - feeling contempt, feeling a person is worthless

**Solemn** - serious and formal

**Tirade** - a long, angry speech

**Tumult** - a loud, confused noise

**Vulnerable** - exposed to the possibility of being attacked

**Uninhibited** - expressing feelings or thoughts without restraint

# YEAR 8 - DEVELOPING GEOMETRY... Angles in parallel lines and polygons

## What do I need to be able to do?

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

- Identify alternate angles
- Identify corresponding angles
- Identify co-interior angles
- Find the sum of interior angles in polygons
- Find the sum of exterior angles in polygons
- Find interior angles in regular polygons

## Keywords

**Parallel:** Straight lines that never meet

**Angle:** The figure formed by two straight lines meeting (measured in degrees)

**Transversal:** A line that cuts across two or more other (normally parallel) lines

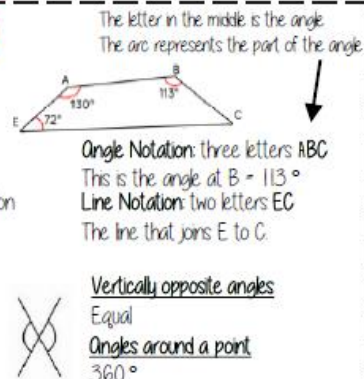
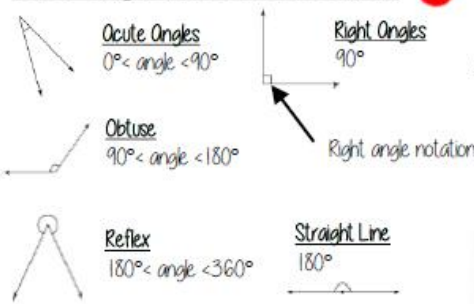
**Isoceles:** Two equal size lines and equal size angles (in a triangle or trapezium)

**Polygon:** A 2D shape made with straight lines

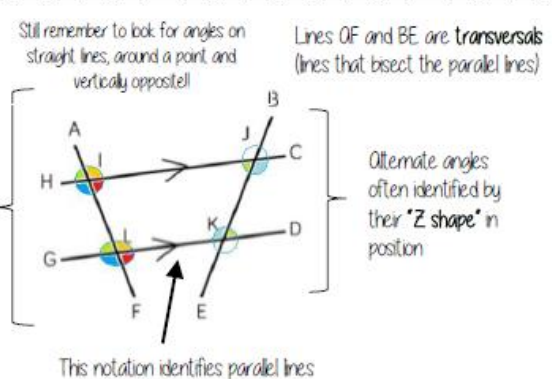
**Sum:** Addition (total of all the interior angles added together)

**Regular polygon:** All the sides have equal length, all the interior angles have equal size.

## Basic angle rules and notation R



## Parallel lines

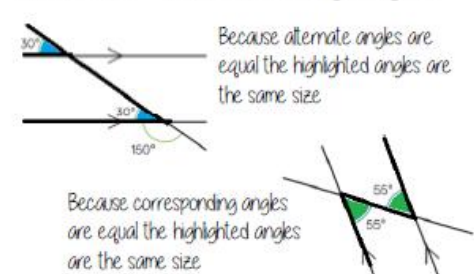


## Parallel lines

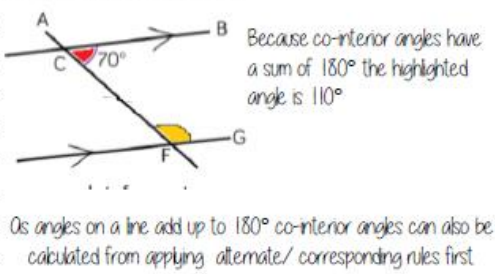


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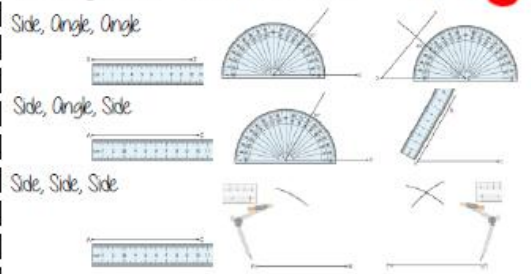
## Alternate/ Corresponding angles



## Co-interior angles



## Triangles & Quadrilaterals R



## Triangles



Scan here

## Properties of Quadrilaterals



### Square

All sides equal size  
All angles  $90^\circ$   
Opposite sides are parallel



### Rectangle

All angles  $90^\circ$   
Opposite sides are parallel



### Rhombus

All sides equal size  
Opposite angles are equal



### Parallelogram

Opposite sides are parallel  
Opposite angles are equal  
Co-interior angles



### Trapezium

One pair of parallel lines

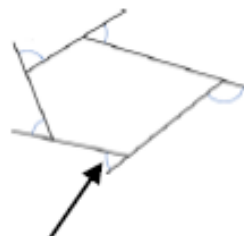


### Kite

No parallel lines  
Equal lengths on top sides  
Equal lengths on bottom sides  
One pair of equal angles

## Sum of exterior angles

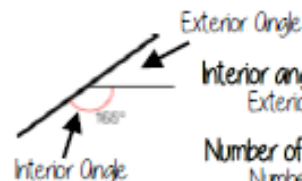
Exterior angles all add up to  $360^\circ$



### Exterior Angles

Are the angle formed from the straight-line extension at the side of the shape

Using exterior angles



Exterior Angle

Interior angle + Exterior angle = straight line =  $180^\circ$   
Exterior angle =  $180 - 165 = 15^\circ$

Number of sides =  $360^\circ \div \text{exterior angle}$   
Number of sides =  $360 \div 15 = 24$  sides

## Sum of interior angles

### Interior Angles

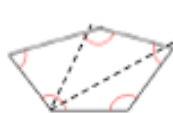
The angles enclosed by the polygon



This is an irregular polygon  
- the sides and angles are different sizes

$$(\text{number of sides} - 2) \times 180$$

$$\text{Sum of the interior angles} = (5 - 2) \times 180$$



This shape can be made from three triangles  
Each triangle has  $180^\circ$

$$\text{Sum of the interior angles} = 3 \times 180 = 540^\circ$$

Remember this is all of the interior angles added together

## Missing angles in regular polygons



$$\text{Exterior angle} = 360 \div 8 = 45^\circ$$

$$\text{Interior angle} = \frac{(8-2) \times 180}{8} = \frac{6 \times 180}{8} = 135^\circ$$

Exterior angles in regular polygons =  $360^\circ \div \text{number of sides}$

Interior angles in regular polygons =  $\frac{(\text{number of sides} - 2) \times 180}{\text{number of sides}}$

Sum of interior angles



Scan here

Properties of Quadrilaterals



Scan here

A job that relies on geometry:

**CAD Engineer**

A CAD engineer, or computer aided design engineer, creates construction plans for cars, bridges, skyscrapers or other buildings using software systems. Their main responsibilities include designing 2D or 3D images for construction workers to accurately present complex projects, establishing budgets and timelines and analysing the data of certain projects to develop creative solutions to any design issues.



# YEAR 8 - DEVELOPING GEOMETRY...

# Area of trapezia and Circles

## What do I need to be able to do?

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

- Recall area of basic 2D shapes
- Find the area of a trapezium
- Find the area of a circle
- Find the area of compound shapes
- Find the perimeter of compound shapes

## Keywords

**Congruent:** The same

**Area:** Space inside a 2D object

**Perimeter:** Length around the outside of a 2D object

**Pi ( $\pi$ ):** The ratio of a circle's circumference to its diameter.

**Perpendicular:** At an angle of  $90^\circ$  to a given surface

**Formula:** A mathematical relationship/ rule given in symbols. Eg  $b \times h$  = area of rectangle/ square

**Infinity ( $\infty$ ):** A number without a given ending (too great to count to the end of the number) – never ends

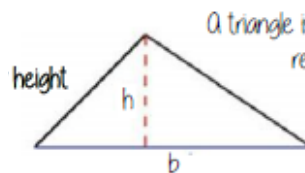
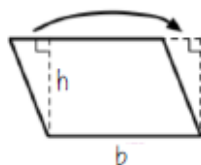
**Sector:** A part of the circle enclosed by two radii and an arc.

## Area – rectangles, triangles, parallelograms

Rectangle  
Base x Height



Parallelogram/ Rhombus  
Base x Perpendicular height



A triangle is half the size of the rectangle it would fit in

## Parallelograms



## Triangles



## Trapezium

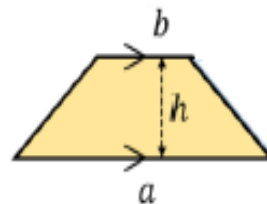


## Compound Shapes

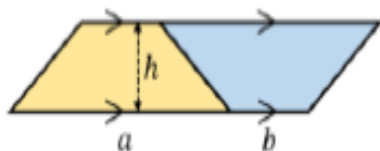


## Area of a trapezium

$$\frac{(a+b) \times h}{2}$$



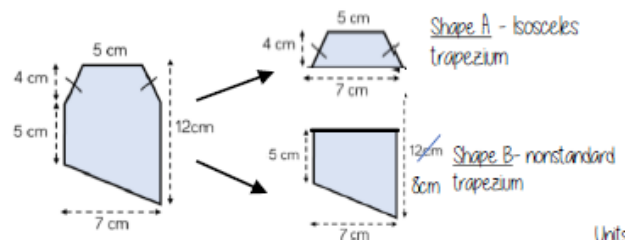
Why?



- Two congruent trapeziums make a parallelogram
- New length  $(a + b) \times$  height
- Divide by 2 to find area of one

## Compound shapes

To find the area compound shapes often need splitting into more manageable shapes first. Identify the shapes and missing sides etc. first.



$$\text{Shape A} + \text{Shape B} = \text{total area}$$

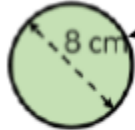
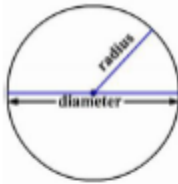
$$\frac{(5+7) \times 4}{2} + \frac{(5+8) \times 7}{2} = 24 + 45.5 = 69.5 \text{ cm}^2$$

Units

### Area of a circle (Non-Calculator)

Read the question – leave in terms of  $\pi$  or if  $\pi \approx 3$  (provides an estimate for answers)

Area of a circle  
 $\pi \times \text{radius}^2$



Diameter = 8cm  
 $\therefore$  Radius = 4cm

$$\begin{aligned} \pi \times \text{radius}^2 \\ &= \pi \times 4^2 \\ &= \pi \times 16 \\ &= 16\pi \text{ cm}^2 \end{aligned}$$

Find the area of one quarter of the circle



Radius = 4cm  
Circle Area =  $16\pi \text{ cm}^2$   
Quarter =  $4\pi \text{ cm}^2$

### Area of a circle (Calculator)

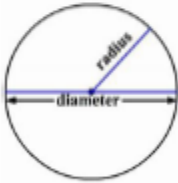


SHIFT  $\times 10^x$

How to get  $\pi$  symbol on the calculator

It is important to round your answer suitably – to significant figures or decimal places. This will give you a decimal solution that will go on forever!

Area of a circle  
 $\pi \times \text{radius}^2$

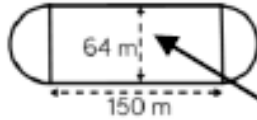


### Compound shapes including circles

Circumference  
 $\pi \times \text{diameter}$

Compound shapes are not always area questions  
For Perimeter you will need to use the circumference

### Spotting diameters and radii



This dimension is also the diameter of the semi circles.

$$\begin{aligned} \text{Arc lengths} &= \pi \times 64 \\ &= 64\pi \end{aligned}$$

Don't need to halve this because there are 2 ends which make the whole circle

Arc lengths + Straight lengths = total perimeter

$$\begin{aligned} &= 64\pi + 150 + 150 \\ &= (300 + 64\pi) \text{ m} \\ \text{OR} &= 5011 \text{ m} \end{aligned}$$

Still remember to split up the compound shape into smaller more manageable individual shapes first

### Area of a circle



Scan here

A job that relies on geometry:

**Interior Designer**

An interior designer builds plans for living or working spaces from start to finish. Their main duties include sketching design plans according to clients' needs, goals and preferences, sourcing products or materials to use in the space, deciding on prices to complete projects and using computer applications to conduct the design process.



# YEAR 8 - DEVELOPING GEOMETRY... Line symmetry and reflection

## What do I need to be able to do?

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

- Recognise line symmetry
- Reflect in a horizontal line
- Reflect in a vertical line
- Reflect in a diagonal line

## Keywords

Mirror line: a line that passes through the center of a shape with a mirror image on either side of the line

Line of symmetry: same definition as the mirror line

Reflect: mapping of one object from one position to another of equal distance from a given line.

Vertex: a point where two or more-line segments meet

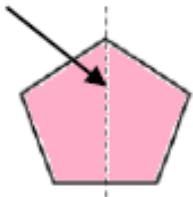
Perpendicular: lines that cross at  $90^\circ$

Horizontal: a straight line from left to right (parallel to the x axis)

Vertical: a straight line from top to bottom (parallel to the y axis)

## Lines of symmetry

Mirror line (line of reflection)



Shapes can have more than one line of symmetry....  
This regular polygon (a regular pentagon has 5 lines of symmetry)



Rhombus  
two lines of symmetry

Parallelogram

No lines of symmetry



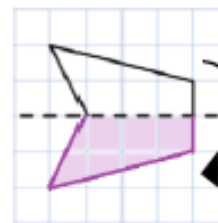
A circle has an infinite amount of lines of symmetry



## Reflect horizontally/ vertically (1)



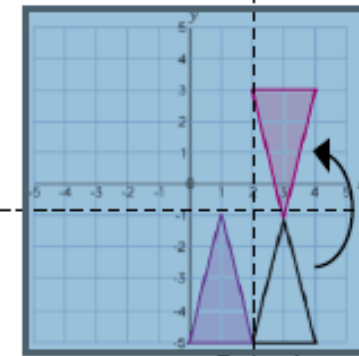
Reflection in a vertical line



Reflection in a horizontal line

Note: a reflection doubles the area of the original shape

Reflection on an axis grid



Reflection in the line  $y = -2$

Reflection in the line  $x = 2$

Reflective  
Symmetry



Rotational  
Symmetry



Vertical  
Lines



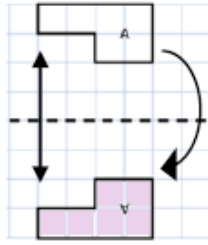
Horizontal  
Lines



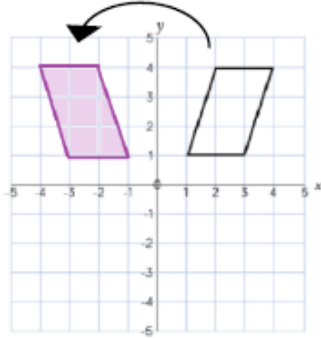


## Reflect horizontally/ vertically ( 2 )

All points need to be the same distance away from the line of reflection



Reflection in the line  $y$  axis — this is also a reflection in the line  $x=0$



Lines parallel to the  $x$  and  $y$  axis

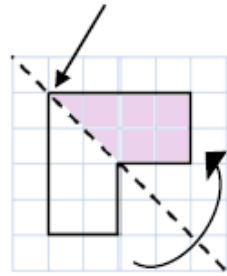
REMEMBER

Lines parallel to the  $x$ -axis are  $y = \dots$

Lines parallel to the  $y$ -axis are  $x = \dots$

## Reflect Diagonally ( 1 )

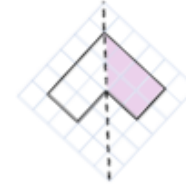
Points on the mirror line don't change position



Fold along the line of symmetry to check the direction of the reflection

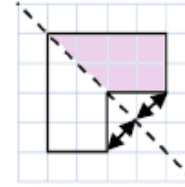
Turn your image

If you turn your image it becomes a vertical/ horizontal reflection (also good to check your answer this way)



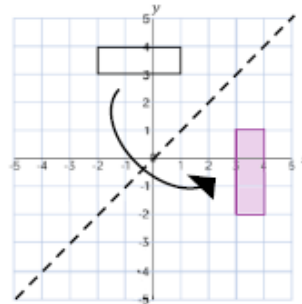
Drawing perpendicular lines

Perpendicular lines to and from the mirror line can help you to plot diagonal reflections

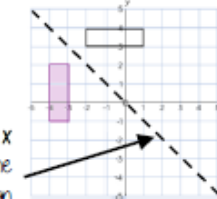


## Reflect Diagonally ( 2 )

This is the line  $y = x$  (every  $y$  coordinate is the same as the  $x$  coordinate along this line)

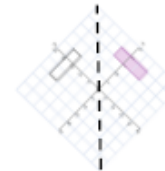


This is the line  $y = -x$   
The  $x$  and  $y$  coordinate have the same value but opposite sign



Turn your image

If you turn your image it becomes a vertical/ horizontal reflection (also good to check your answer this way)



## Reflections



Scan here

## Perpendicular Lines



Scan here

## Parallel Lines



Scan here

A job that relies on geometry:

**Fashion Designer**

Fashion designers create and assist in producing different clothing items, shoes and accessories. Their main duties are choosing fabrics, materials, styles, prints and colors, identifying upcoming fashion trends, traveling to fashion shows and deciding on seasonal themes for new product lines.





## Year 8 RS: What does it mean to have a good life?

Key words	
Good	To please and be kind.
Evil	Immoral and wicked.
Freedom	The right to act, speak or think as one wants.
Ethics	Moral principles that govern a person's behaviour.
Scripture	Sacred writings of a religion.
Virtue	Behaviour showing high moral standards
Liberal	To be favourable or respectful to individual rights and freedoms

You're only here once, right? You need to live each day as if it's your last. Make the most of every moment and enjoy yourself. Life is too short to be filled with regret, so my plan is to have as much fun and as many laughs as I possibly can!!!

Life is what you make it! I focus on trying to be the best person that I can possibly be. You never know what is around the corner, but if anything sudden ever happened, I would want to know that I'd made a positive impact on the world and that people thought good things about me because you are only here once.

Life is all about give and take, supporting each other in your community. It's important to help and take care of those around you.

**Buddhism- What is a good Life.**

The **Buddha** was born in Lumbini, in India, in 563 **BC**. Before he became the **Buddha** he was known as **Prince Siddhartha Gautama**.

Before he was born, **Gautama's** mother – **Queen Maya** – had a dream that a white elephant entered her womb. Ten months later she gave birth to her son on a full moon night while on her way home to see her parents. When he was born it is said that he leapt onto the ground and where his feet touched it a lotus flower sprang up. Astrologers predicted he would either be a great ruler or a great religious teacher.

**Prince Gautama** grew up surrounded by luxury. His father tried to keep him in the palace as he wanted him to rule the kingdom. Astrologers had predicted that if he saw suffering he would become a great religious teacher. **Gautama** married at the age of 16 and had a son, **Rahula**. However, he became dissatisfied with his life. Whenever **Gautama** went out in his chariot, his father sent servants ahead to try to get all the blind, sick and old

people out of sight. Even so, **Gautama** saw four sights in the picture above. They were to change his life. After seeing the first three of these, **Gautama** realised that he too would one day grow old and die. He was no longer satisfied with his life of luxury, but felt a great love for ordinary people, and he wanted to help them to overcome their suffering. The last person that **Gautama** saw was a **sadhu**, a holy man, who had given up all his possessions to live a spiritual life. **Gautama** was certain that he should do the same. He thought about this for a long time, and then one night, he left his wife and son in the palace.

Humanism- What is a good Life

As with all animals, we are born, some of us reproduce, and we all eventually die. Unlike other animals, we worry about where our lives are going. Many of us can make important choices, which influence how our lives turn out. Within limits, we can choose to work or be idle; we can choose whom to befriend, whether to have children, and what kind of job or career we follow. Throughout history, human beings have asked themselves the question of what is the best way to live. What makes life worthwhile? What, if anything, makes life meaningful? These questions raise further questions of how we should treat others. Humanists believe that we have an obligation to make responsible and informed choices to help our lives and the lives of others go in a worthwhile and fulfilling direction. We are very small and insignificant in comparison with the vast size and age of the universe; but size is irrelevant to the question of meaning. Some people think that if there is no life after death and if we are limited in time, then life is somehow meaningless and pointless.

As we have seen, Prince Gautama left the palace and went into the city.

He saw four sights that changed his life. **An old person, an ill person, a corpse and a holy person.** He realised that life involves suffering. He gave up his life as a prince, and set off to find out why people suffer. He was 29 years old. Channa, his charioteer, drove him out of the city. Then Gautama got out of the chariot. He cut off his hair, took off his fine clothes and, wearing just a simple robe, he set out on the homeless life. For six years Gautama lived a harsh life, training himself to have no food for long periods of time, and eating just enough to survive. It is said that his fasting nearly killed him. He grew so thin that you could see his back-bone through his stomach.

Finally, he realised that this kind of discipline was doing him no good. It had not helped him to find the truth about life, so he gave it up. He went down to the river to wash, where a milkmaid offered him some rice to eat, which he accepted.

The other holy men saw him give up his fast and thought that he was going back to his life of luxury in the palace, so they deserted him. He had not achieved what he had set out to do, but he was still determined to find out how to overcome suffering. Gautama sat under a tree, and said that he would not get up again until he had achieved enlightenment. Sitting there, many images went through his mind, tempting him to give up; other images were frightening, but none of them made him change his mind. He sat under the tree all night, struggling with these temptations. Then, as dawn approached, he is said to have gained enlightenment. From then on, Gautama became known as 'the Buddha'. His followers do not think that he is a god. They describe him as an enlightened human being. In other words, they claim that the Buddha was able to see and understand the truth about life.

Buddhism does not set down rules which everyone must obey all the time out of fear of being punished. There are two reasons for this:

There is no god in Buddhism to reward or punish people, or to set down laws.

No two people are the same, so you need to judge what is right in your own circumstances, not simply obey laws.



Meaning can be shown both physically and vocally. The following are skills used by actors to communicate characters' personality and intention – this is known as **Characterisation**.

- **Body Language** – Showing what you feel by the way you stand.
- **Gesture** – how you communicate with your hands and/or arms.
- **Facial expression** – showing what you feel on your face.
- **Voice tone** – the emotion that you are putting into your voice. E.g. an angry tone of voice.
- **Pitch** – how high or low you are speaking.
- **Pace** – how fast or slow you are speaking.
- **Pause** – Allowing breaks in the speaking
- **Accent** – changing the way you speak to show where you are from.
- **Status** – how important your character is. This can be shown by the way you stand, talk, walk etc...

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# YEAR 8 DRAMA – WORKING WITH TEXT

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Meaning can also be shown through the **design elements**.

**Costume** is what the character wears and is used to show more about their personality. It can show their age, status, and the time period the play is set in.

**Lighting** is used to create atmosphere and show the time of day. This is done using colour, angle, and intensity. For example, a dimly lit stage with a cold blue light may create an atmosphere of mystery or suspense, set in the early evening.

**Sound** is used to add to the atmosphere, heighten emotions and can also be used to show locations for example a wind blowing and a wolf howling can create an eerie atmosphere.

**Set** includes the scenery, and anything on the stage which is used to show when and where the play takes place. It is used to create levels and make the performing space look visually interesting.





## Five Ways to Wellbeing Activity Sheet

Use the challenges on this sheet to help your child feel better and find ways of managing their own mental wellbeing.

Why not cut them all out and encourage them to choose one or two per day to do. Once they have tried them all they can pick their favourites to do regularly.



### Be active



Do a half an hour walk around the local area and write about what you saw when you get back including how it made you feel.



Set up an indoor obstacle course to get your heart rate up



Have a kitchen disco with your household – each pick your favourite songs and do your most energetic dancing together.

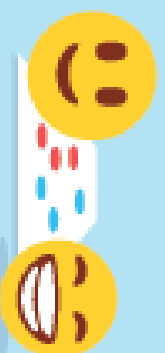
### Connect



Write a letter to someone that you haven't seen for a long time. Ask how they are and tell them how you have been feeling. Draw pictures or take photos to print and go with it.

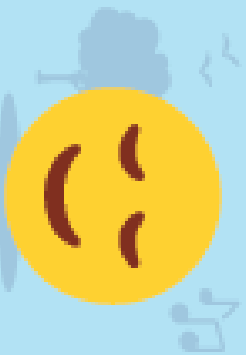


Make contact with a friend from school – ask a parent to help you set up a video call so that you can see each other and talk.

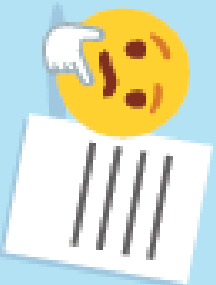


Connect with those you live with by spending time playing a board game together.

## Take notice



Sit outside and listen to the birds sing, and notice what other sounds you can hear.



Write a list of the three things you look forward to doing the most when we are allowed to do them again.



Go for a walk in your local park and look at the trees around you noticing what colour the leaves are. Write about what you see and how it made you feel.

## Learn



Choose something you are interested in and spend some time reading about it and learning interesting facts to tell people.



Choose a country you might like to visit one day and learn five words from the language.

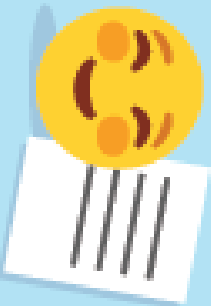


Learn to cook a meal with the person in the household that usually cooks. Help them with the preparation and the clearing up.

## Give



Make a homemade card to send to a friend or family member that you can't see at the moment.



Write a list of the things you appreciate most about the people you live with and let them see it.



Help with some of the chores around the house whether it's doing the Hoovering or putting the socks.

Something to think about....

## KEY QUOTE OF THE WEEK:

*'Every unselfish act of love whispers God's name.'* Bob Goff, *Restore International*

**LISTEN:** *Where is the Love?* by the Black Eyed Peas asks challenging questions about who we should be showing love to and how:

<https://www.google.com/search?q=where+is+the+love%3F&ie=&oe=>

*Reckless Love* by Cory Ashby: <https://www.youtube.com/watch?v=Sc6SSHuZvQE> This Christian worship song is about God's unconditional love for mankind. It uses the analogy of the lost sheep to describe the Christian belief that God loves everyone so much, that he will come and find us.

*Love Divine, All Loves Excelling* by Charles Wesley:

<https://www.youtube.com/watch?v=sw5ZCZeS32M> The words of this favourite hymn describes the love Christians believe that God has for mankind and how they see Jesus as the ultimate demonstration of this love.

## THINK:



What does this picture make you think of?

Is it better to give or to receive love?

How would you characterise the love of the parent, and the love of the child?

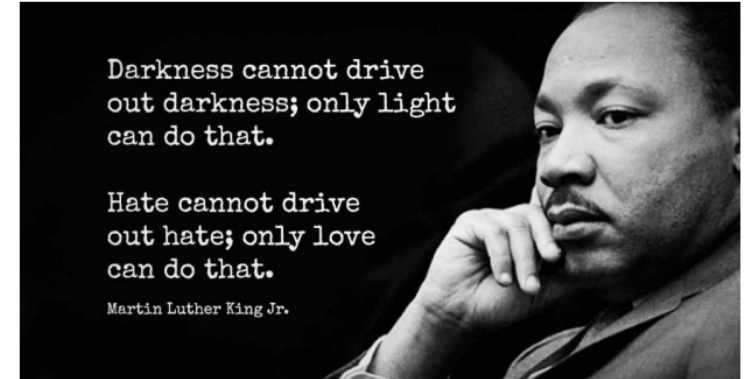
Which do you need right now?



**BIBLE STORY OF THE WEEK:** The Good Samaritan: Luke 10:25-37 & Mark 12: 28-31

“Of all the commandments, which is the most important?” “The most important one,” answered Jesus, “is this: ‘Hear, O Israel: The Lord our God, the Lord is one. Love the Lord your God with all your heart and with all your soul and with all your mind and with all your strength.’ The second is this: ‘Love your neighbour as yourself.’ There is no commandment greater than these.”

But the expert in the law wanted to justify himself so he asked: ‘And who is my neighbour?’






## ACTIVITIES that can help develop PRACTICES-HABITS:

Your nearest neighbours are in your family. **Read** about love languages and ask a family member how you can show that you love them today.

Everyone gives and receives love differently, but with a little insight into these differences, we can be confidently equipped to communicate love well. This is true for all forms of relationship – for couples, for children and teenagers, for friends and co-workers, for long-distance relationships, or even – at this time – socially-distanced relationships. Understanding how we give and receive love can help us understand how others might like to be shown love, too.

Ideas include: Washing up (act of service), playing a game (quality time), giving encouragement (words of affirmation), giving a hug (physical affection), making a small homemade present (gifts).



Love Language	How to Communicate	ACTIONS to take	THINGS to AVOID
 <b>WORDS OF AFFIRMATION</b>	Encourage, affirm, appreciate, empathize, compliment, Listen actively	Say I love you Write notes saying you are proud of them. Praise them in front of others. Be specific in your praise	Non-constructive criticism, not recognising or appreciating effort.
 <b>PHYSICAL TOUCH</b>	Non-verbal - use body language & touch to emphasize love.	Hold hands, give hugs, pats on the back. Read stories together Give family group hugs	Physical neglect, abuse of any kind.
 <b>RECEIVING GIFTS</b>	Gifts & gestures show that you are known, loved and cared for.	Give thoughtful gifts & gestures. Small things matter in a big way. Express gratitude when receiving a gift.	Forgetting special occasions, unenthusiastic gift receiving.
 <b>QUALITY TIME</b>	Uninterrupted and focuses one-on-one time. Give undivided attention. Watch as they are playing.	Create special moments together. Make eye contact Pay attention to details Eat together as a family.	Distractions when spending time together. Long stints without one-on-one time.
 <b>ACTS OF SERVICE</b>	Use action phrases like "I'll help..." They want to know you're with them and there to help.	Do chores together. Work on projects together. Pick them up on time.	Making the requests of others a higher priority, lacking follow-through on tasks big and small.

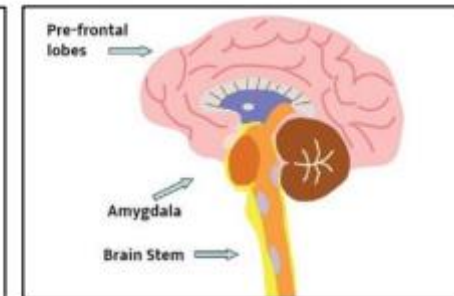
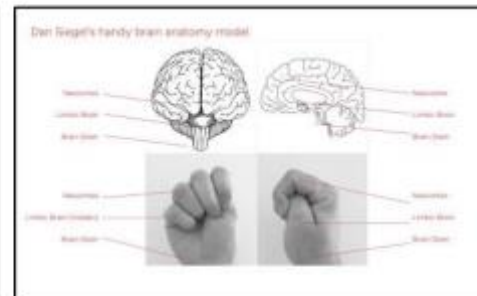


# KS3 Knowledge Organiser - Understanding and Training our Brain



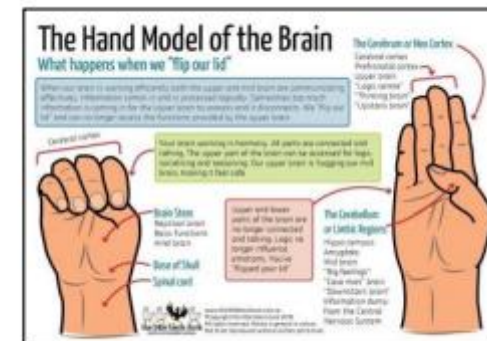
## BRAIN STRUCTURE

Be able to use the hand model and the upstairs/downstairs model to explain the brain.  
Know the term amygdala.



## WHEN OUR BODY PERCEIVES A THREAT

1. The amygdala floods our body with the hormones adrenaline and cortisol
2. This prompts us to either FIGHT, FLIGHT or FREEZE
3. Our heart rate and blood pressure increase
4. Our skin pales or flushes
5. Our ability to feel pain decreases
6. Our pupils dilate
7. Our memory might be affected
8. We might be trembling
9. Sometimes people lose control of their bladder!





## WHERE TO SEEK SUPPORT IF YOU NEED IT

- Shelf help books in the library or public library
- Parent or other adult at home
- Friends
- Older student
- Tutor or achievement leader
- Learning mentor
- Wellbeing team (Miss Neal, Mrs Freds, Mrs Dobell, Mrs Crissall, Mrs Horne)
- Mrs Whitcombe or another member of the leadership team
- School nurse drop in
- School nurse referral
- Kooth
- Emotional wellbeing hub
- Dr Hope
- Samaritans

## HOW TO HELP YOUR BRAIN LEARN

1. Challenge your brain
2. Be curious and imaginative
3. Deal with stress or anxiety first
4. Drink plenty of water
5. Eat a healthy diet
6. Get enough sleep
7. Take plenty of physical exercise
8. Break your learning into chunks
9. Take brain breaks regularly

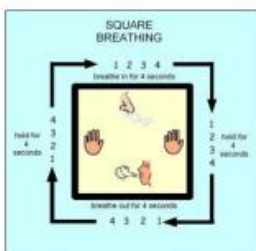
## FIVE WAYS TO WELLBEING

*Know the five; know what they mean; give examples*



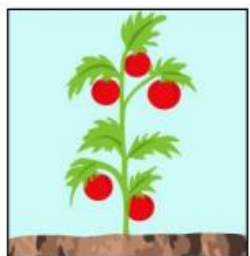
## BREATHING

**4, 5, 6 breathing**  
Breathe in for 4,  
hold for 5,  
breathe out for  
6. Repeat as long  
as you need to.



## WHAT TO DO WHEN YOU WORRY TOO MUCH

- Stop your worries growing by paying less attention to them
- Fight your thoughts with logical answers
- Use planned worry time
- Imagine and deal with a worry monster
- Re-set your system with exercise
- Re-set your system with relaxation techniques



## GROUNDING

### The 5-4-3-2-1 Coping Technique

Ease your state of mind in stressful moments.





iPhone users

Keeping everybody safe at




Android users



We aim to keep everyone in our community safe. If you feel worried about yourself or someone else, please **speak to someone you trust as soon as you can**. Please find your trusted or an emotionally available adult in the academy who will be there to listen and support you. Our Designated Safeguarding Leads (DSL) are **Mr Davis, Mrs Milroy, Mr Ford, Mr Ward, Miss Wenlock, Mr Fisher, Mr Richardson, Mrs Molloy, Mrs Clayton and Mrs Hewitt-Coleman**.

What is abuse in safeguarding concerns?

**Physical Abuse** - Physical abuse is any way of intentionally causing physical harm to a person or purpose. This could result in injuries such as in bruises, broken bones, burns or scalds or bite marks.

**Emotional Abuse** - Emotional abuse is any type of abuse that involves the continual emotional mistreatment of a person. It's sometimes called psychological abuse. Emotional abuse can involve deliberately trying to scare, humiliate, isolate or ignore and stopping you from seeing friends or family.

**Sexual Abuse** - When a child or young person is sexually abused, they're forced or tricked into sexual activities without permission. This include being forced to look at images or videos. Sexual abuse can happen anywhere – and it can happen in person or online.

**Neglect** - Neglect can be a lot of different things. It is when you do not get enough help or care from someone who should be looking after you. This could include having a lack of food, clothing and attention and medical care.

**Bullying** is behaviour that hurts someone else. It includes name calling, hitting, pushing, spreading rumours, threatening or undermining someone. It can happen anywhere – at school, at home or online. Online bullying is called Cyber-bullying. It's usually repeated over a long period of time and can hurt a child both physically and emotionally.

**County Lines** is the police term for urban gangs exploiting young people into moving drugs from a hub, normally a large city, into other markets - suburban areas and market and coastal towns - using dedicated mobile phone lines or "deal lines". Children as young as 12 years old have been exploited into carrying drugs for gangs. This can involve children being trafficked away from their home area, staying in accommodation and selling and manufacturing drugs.

Someone who starts to believe in or supports extreme views linked to terrorism and forms of extremism leading to terrorism is linked to **Radicalisation**. Extremism can also be linked to this as extreme views, vocal or active opposition to fundamental British values, including democracy, the rule of law, mutual respect and tolerance of different faiths and beliefs.

**Where do I go for help and advice?**

Speak to any available adult in school. This could include your Head of Year, Mr Davis, Mrs Milroy, Mr Richardson or Mr Ford. Advice can be found by scanning the QR codes at the top.

**If you feel you need support or see or hear something that concerns you, report it!**  
**We are here to help.**



Links to advice

Childline – 0800 1111  
[www.childline.org.uk](http://www.childline.org.uk)



Advice on mental health.  
[www.youngminds.org.uk](http://www.youngminds.org.uk)



Staying safe online  
[www.childnet.com](http://www.childnet.com)



Advice on LGBT+ issues  
[www.theproudtrust.org](http://www.theproudtrust.org)



Advice for young people  
[www.themix.org.uk](http://www.themix.org.uk)

