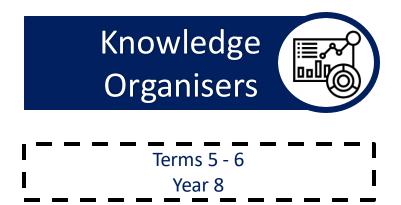
Name:





## Contents

- How to learn over time
- Revision Strategies
- Knowledge Organisers:
  - English
  - Maths
  - Science
  - Humanities
  - Languages
  - The Arts



## How to learn over time

### Successful Learning Takes Place Over Time

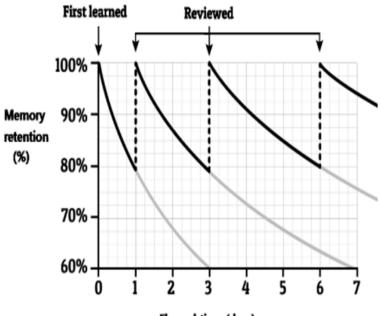


It's rare for anyone to be completely comfortable with something they learn for the first time. This could be a new piece of music, dance move, language or chemistry. We all have to practice. In most instances, the aim is to be at your optimum on the day it matters, e.g. the performance, race or exam. Everything leading up to this point is part of the process of improving. It's about the longterm rather than the short-term, which also means there are no quick fixes. During this period, it's okay to make mistakes; it's okay to feel frustrated. What matters is what you do about it.

### Space out your learning on a subject



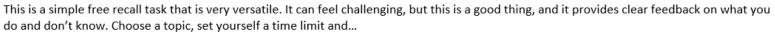
Spacing out your learning over time is far more effective than last-minute cramming. This is based on research into how we forget and how we remember. The speed at which we forget something will depend on many factors such as the difficulty of the material, how meaningful it was to us, how we learned it and how frequently we relearn or remember it. The last factor tells us that when we learn something for the first time, we need to review it quickly afterwards. The more times we force ourselves to remember something, the longer the gap between reviews, which the diagram below illustrates nicely. The Leitner system and Cornel Notes mentioned earlier provides a wonderful way of achieving this, but the principle applies to all of the learning strategies mentioned in this booklet.



Elapsed time (days)

## **Revision Strategies**

## List It



- List as many keywords as you can
- List as many facts as you can
- · List as many key events/quotes/individuals as you can
- List as many causes of X as you can
- List as many consequences of Y as you can

## Flashcards



Flashcards have the potential to be a powerful learning aid. However, how successful this is will depend on the thought you put into making them in the first place and then how they're used. It's very important to remember that they're for testing, not summarising.

## Mapping



Mapping is a brilliant way of organising and learning information, demonstrated on various pages in this booklet. It helps you break down complex information, memorise it, and see the connections between different ideas.

## Self-testing



Research has shown that every time you bring a memory to mind, you strengthen it. And the more challenging you make this retrieval, the greater the benefit. Self-testing improves the recall of information, transfer of knowledge and making inferences between information. Equally, there are many indirect effects, such as a greater appreciation of what you do and don't know, which helps you plan your next steps.

## Flashcards



Flashcards are small sheets of paper or card with matching pieces of information on either side. They are a useful tool for learning facts and allow you to quickly check whether you have remembered something correctly.

## When making and using flashcards:

Do: ✓	make flashcards quickly. put a single piece of information of each flashcard.	Don't: Xspend more time making flashcards than actually using them.	1861	groynes	osmosis	Where is the pharmacy?
√ √	sort your flashcards according to your confidence with them (see below).	Xrevise the flashcards in the same	Pasteur published his paper about	A low wall on the coastline which slows longshore drift	Net movement of water from a high concentration to low concentration across a	Où est la pharmacie?
Ŷ	test yourself on the flashcards from memory.	order every time that you use them. Xonly read through flashcards.	germ theory.	siows iongshore drift	partially permeable membrane	

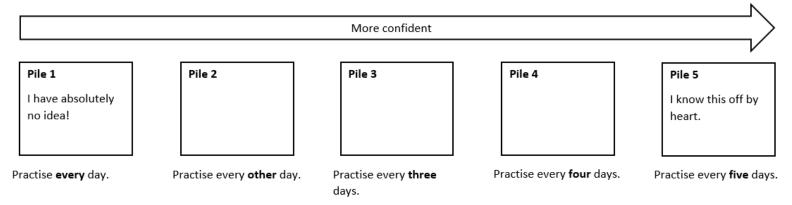
## How to make flashcards:

- You can by a set of flashcards or use a free website such as Quizlet.
- Find the information you want to put onto flashcards using your existing revision resources (e.g. a knowledge organiser).
- •Fold a piece of A4 paper into 10.
- •Write the questions on the top half of the paper.
- •Write the answers on the bottom half of the paper.
- •Cut the paper along the dotted lines shown here.
- •Fold the strips of paper so that the writing is on either side.

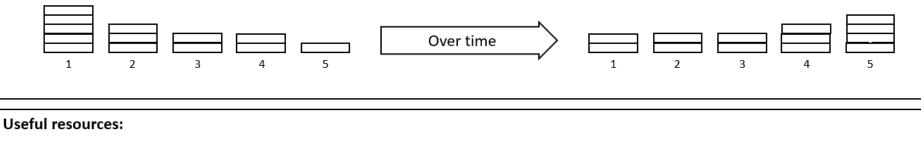
Definition 1	Definition 2	Definition 3	Definition 4	Definition 5
Answer 1	Answer 2	Answer 3	Answer 4	Answer 5

## How to use flashcards:

- 1. Test yourself using the flashcards.
- 2. As you test yourself, sort the flashcards into up to five piles according to how confident you are with the content.
- 3. Put the piles into numbered envelopes (1-5).
- 4. Test yourself on the different piles on different days (see below):

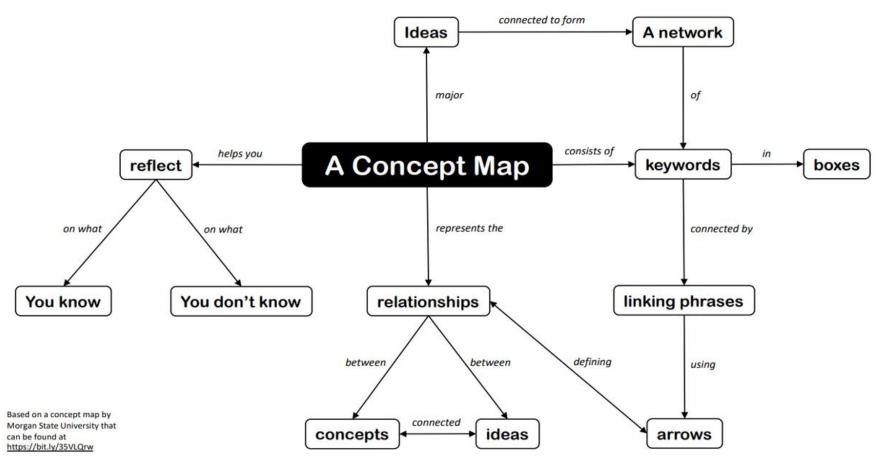


5. As you test yourself on the different piles, move the cards into different piles as you become more confident.



www.quizlet.com – This free website allows you to quickly create flashcards which you can print, use on a computer, or use on your phone.







## **Origins of Gothic Horror**

Gothic literature is a genre of fiction which first became popular during the 18th century. Although many of the most famous Gothic novels were written during the Victorian times, conventions of the Gothic genre are still featured in popular culture today.

The term 'Gothic' originates from the name of an ancient Germanic tribe (The Goths) who are thought to have contributed to the fall of the Roman Empire. They had a reputation for being barbaric and later a form of **architecture** was named after them as sort of insult.

The term Gothic first became linked to literature with Horace Walpole's 1764 novel *The Castle of Otranto*, later subtitled *A Gothic Story*. This term was probably given because of the book's medieval Gothic architecture and setting. Unlike horror stories, Gothic stories tend to create an atmosphere of tension and suspense for the reader . For example, the novel *The Castle of Otranto* is set in a castle with mysterious, supernatural events and an innocent female victim.





Conv	<b>Conventions of Gothic Horror</b>			
Subterranean passageways	Secret tunnels and passages can often act as a means of escape or secret entry to buildings.			
Abandoned buildings	Houses which no-one lives n and may be in ruins are often settings for gothic stories			
Gloom and horror	Characters are often in a depressed emotional state -gloomy			
Isolated bleak settingsEvents take place in areas where are not many people or dwelling				
Sublime	Of great beauty- usually used to describe landscapes			
Supernatural	A vision/apparition which cannot be accounted for scientifically			
Women in distress	Female characters are often passive so they rely on other characters to rescue them or to give them information			
Dominant, tyrannical male	Male characters are often powerful and take charge of situations and people.			
Unreliable narrator	The character who tells the story may not have all the information needed			
Outsiders	A character who does not belong with others; they remain apart and separate.			

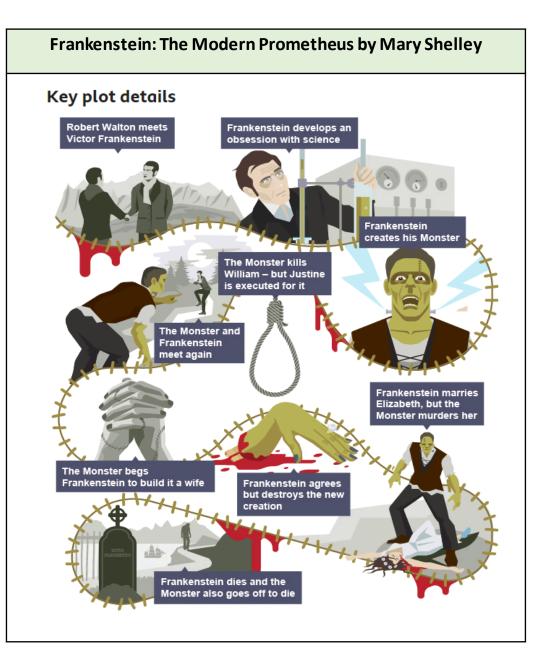


Key Words 🏾 🌮			
Supernatural	A vision/apparition which cannot be accounted for scientifically		
Ominous	The sense that something awful or threatening is going to happen		
Foreboding	The impression that something terrible will happen in the future.		
Submissive	Someone weak or quiet; without authority		
Isolation	Being kept apart or alone from others		
Dominance	Having power and influence over others		
Tyrannical	Using power in a cruel way; by making others scared		
Archetype	A typical exam of someone or something		
Convention	A way in which something is usually done		
Atavistic	Characteristic of something ancestral or primitive		
Palpable	A feeling or atmosphere so intense it is as if you can touch it		
Confine	To keep something within its limits		
Subterranean	Occurring or existing under the ground		



Techniques				
<b>Symbolism</b> The use of an image to represent an idea	<b>Pathetic fallacy</b> The idea that the weather reflects emotions			
Motif A repeated image in a text	<b>Imagery</b> Words or phrases create pictures in the imagination			
<b>Personification</b> Inanimate object described as having human characteristics	Juxtaposition Opposite ideas placed side-by-side			





## Context



The novel was first published in 1818. It was inspired by a dream that Mary Shelley had. She produced it in response to a challenge by Lord Byron who she was on holiday with as a form of entertainment.

- Frankenstein was set at the end of the enlightenment and romanticism period.
- Rather than following religious teachings, enlightenment thinkers turned to scientific study.
- In the 18th century, people were very religious so the idea of a character playing God was scary to them, so Shelley used this idea to create Frankenstein.
- Frankenstein deals with loss, which Shelley knows a lot about since many people in her life died



## The Tell Tale Heart by Edgar Allen Poe

- "The Tell-Tale Heart" is told by an unnamed narrator.
- The old man, with whom the narrator lives, has a clouded, pale, blue "<u>vulture</u>like" eye, which distresses the narrator so much that they plot to murder the old man
- For seven nights, the narrator opens the door of the old man's room to shine a sliver of light onto the "evil eye."
- On the eighth night, the old man awakens after the narrator's hand slips and makes a noise. The narrator, after some time, decides to open the lantern. A single thin ray of light shines out and lands precisely on the "evil eye," revealing that it is wide open.
- The narrator hears the old man's heart beating. This increases the narrator's anxiety. He jumps into the room and the old man shrieks before he is killed.
- The narrator then dismembers the body and conceals the pieces under the floorboards.
- The old man's scream during the night causes a neighbour to report it to the police, who the narrator invites in to look around. The narrator claims that the scream heard was their own in a nightmare and that the old man is absent.
- Confident that they will not find evidence of the murder, the narrator brings chairs for them and they sit in the old man's room. The chairs are placed on the very spot where the body is concealed; the narrator has a pleasant and easy manner.
- The narrator begins to feel uncomfortable and notices a ringing in his ears. As the ringing grows louder, the narrator concludes that it is the heartbeat of the old man coming from under the floorboards.
- The sound increases steadily to the narrator, though the officers do not seem to hear it. Terrified by the violent beating of the heart, the narrator breaks down and confesses.
- The narrator tells them to tear up the floorboards to reveal the remains of the old man's body.

	Context			
1809	Poe was born and his father disappears. His mother dies shortly afterwards. Poe is fostered.			
1826	Poe attended school in England and then enrolled at the University of Virginia in 1826, but he was forced to leave after two terms.			
1830s	He was a magazine editor, a poet, a short story writer, a critic, and a lecturer. He introduced the British horror story, or the Gothic genre, to American literature			
1845	He writes and publishes The Raven – a poem that made him famous			
1849	Poe dies at the age of 40			





## The Red Room by H.G. Wells

- A main character chooses to spend the night in an allegedly haunted room, coloured bright red in Lorraine Castle.
- He intends to disprove the legends surrounding it.
- Despite warnings from the three caretakers who live in the castle, the narrator walks to "the Red Room" to begin his night's watch.
- At first, he is confident, but the narrator becomes increasingly uneasy in the room.
- He attempts to conquer his fear by lighting candles, but keeping the candles lit in the draughty room becomes an ongoing battle. Each time a candle is snuffed out, the narrator's fear and paranoia increases.
- He begins to imagine that the drafts are guided by an evil intelligence.
- As the narrator's fear intensifies, he stumbles onto a large piece of furniture (possibly the bed), and bounces off the walls in a blind panic, hitting his head and eventually falling unconscious.
- The caretakers, who find him in the morning, feel vindicated when the narrator agrees that the room is haunted.
- They are eager to hear a description of the phantom, but he surprises them by explaining that there is no ghost residing in the rearrish bounted by feether.

the room is haunted by fea





## Context



## H.G. Wells, in full Herbert George Wells

He was a scientific rationalist and author.

He was famous for the novels *The War of the Worlds, The Invisible Man, The Time Machine* and many other works.

In 1894 he wrote the gothic horror story, popular during the Victorian era, 'The Red Room'.



## English

## The Woman in Black by Susan Hill

- On Christmas Eve Arthur Kipps' stepchildren invite him to tell a ghost story. He has one but is too disturbed to tell it, so he writes it down.
- In the story, a young Arthur Kipps is sent by his employer to settle the affairs of Mrs Alice Drablow, of Eel Marsh House. The house is cut off from the mainland at high tide. At her funeral, Arthur sees a sickly-looking young woman dressed in black. No one else sees her.
- Keckwick, the caretaker, drives Arthur to Eel Marsh House where he sees the woman again. He finds piles of Mrs Drablow's papers to sort and is haunted by the sound of a pony and trap.
- He stays overnight at the house and is persuaded by Samuel Daily, a local landowner, to take his dog, Spider, for company. The dog and Arthur are spooked by rumblings, cries and bumps in the night.
- A locked door becomes mysteriously unlocked and Arthur finds a nursery filled with toys and a rocking chair in motion.
- Samuel Daily rescues Arthur from the house and eventually tells him how a child dies by accident each time the woman in black is seen.
- Arthur returns to London with his fiancée Stella. They are soon married and have a child together.
- Arthur sees the woman in black again in London and moments later his wife and child die.

## Context

- Although Susan Hill wrote *The Woman in Black* in 1983, the novella is set in the Edwardian era.
- In Edwardian society, the ideal woman was one whose moral values were strong.
- It was not considered 'proper' for a woman to have a child outside of marriage.
- A woman who did so, risked being cut-off by her family.







English

	Poetry
The Raven	"The Raven" is a poem by 19th century American poet Edgar Allan Poe. <b>"The Raven"</b> begins with the poem's narrator, an unnamed man, working in his study late at night. The narrator reveals that he is reading to distract himself from the loss of his lover, Lenore. He hears knocking at his door, which leads him to open and whisper for Lenore. Instead of Lenore, he hears a bird tap on the window and opens it. A raven flies in and perches on the bust of Pallas, sitting just above the door. The man asks for the bird's name, and it responds with "Nevermore." The man feels the presence of what he describes to be an angel. Thinking of Lenore, he asks the raven if he will be forgiven his sins and allowed to see Lenore again in Heaven, and the bird responds, "Nevermore." The man panics and tells the bird to go back to the night's "Plutonian shore," and the poem ends with the narrator telling the reader that the bird still sits above his door, casting a constant shadow on him.
Goblin Market	In the first lines of 'Goblin Market,' the poet describes the calls and cries of the goblin men as they try to attract customers to buy their fruits. These fruits are inherently magical, something that Lizzie, the wiser sister, knows they should stay away from. But, Laura ignores this warning and pays for one fruit with a lock of her hair. Once she eats it, Laura becomes immediately addicted to the taste. She demands more but the goblin refuses to give it to her. Laura wastes away pining after the fruit. Lizzie shows far more strength than Laura and finds a way to return her to her youth and beauty. The poem concludes with the poet informing the readers that the two sisters each got married and had children. They learned their lesson from the Goblin Market.
The Cold Earth Slept Below	The poem begins with the speaker describing a walk he took on a chilly night. Everything seems completely empty of life as if the end times have come and the planet has been covered with darkness, death, and ice. The moon is going down as well, increasing the darkness with each passing second. The speaker is eventually drawn to a light in a bog or swamp. It turns out to be the glare from his dead lover's eyes. She too was drawn to this place but was unable to make it back and died there.



A **quantity** is an *unknown* or *variable* amount which can be measured or counted.

Two quantities are related if knowing/measuring one of them, allows us to find the other.

If two quantities are related, we can use **algebra** to show their relationship: we can write one quantity <u>in</u> <u>terms of</u> the other.

A **<u>ratio</u>** is a (multiplicative) relationship between two quantities.

a:b

For every *a* in the first, there are *b* in the second.

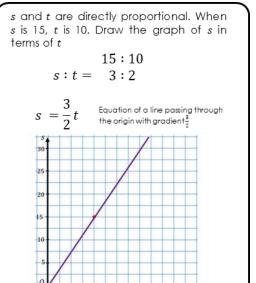
Two quantities are said to be <u>directly</u> <u>proportional</u> if they are in a *multiplicative relationship*.

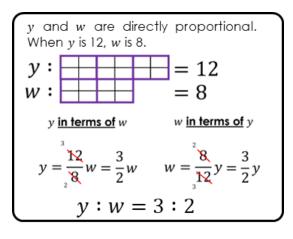
If two quantities are **<u>directly proportional</u>**, then

- when one doubles, the other one doubles as well,
- when one halves, the other one halves as well
- when one becomes one-fifth, the other becomes one-fifth

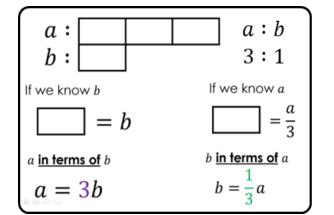
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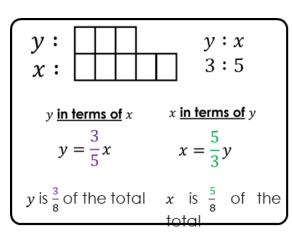
If two quantities are directly proportional, they can be plotted as a **linear graph**.



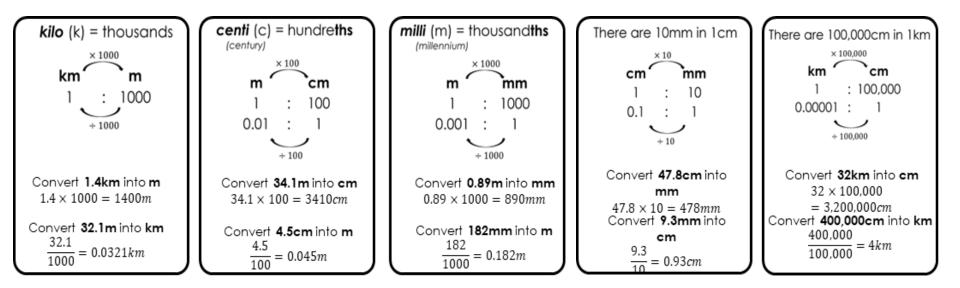


10 15 20 25

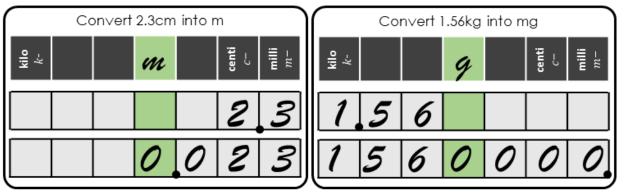








Alternatively, we can convert between units by moving the decimal point to the appropriate column.



These conversions work also for mass, volume and other quantities.

For example:

Mass is measured in grams g1kg:1000g1g:1000mg

Volume (capacity) can be measured in litres L 1L: 100cL 1L: 1000mL

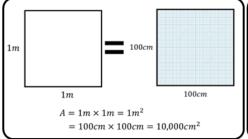


#### Area conversions

The **area** A of a shape is how much flat space the shape occupies.

To measure the area of a shape we count how many **square units** we need to cover it.

When converting between area units we are changing the size of the square units we use to cover the shape.



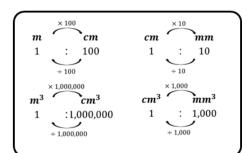
#### $\times 10$ $\times 100$ `cm сm `mm m 1 : 1 100 10÷100 ÷10 $\times 10.000$ $\times 100$ cm<sup>2</sup> $m^2$ cm<sup>2</sup> mm<sup>2</sup> : 10,000 1 : 100 1 $\div 10,000$ ÷ 100 10*mm* 1cm1cm10mm $A = 1cm \times 1cm = 1cm^2$ $= 10mm \times 10mm = 100mm^{2}$

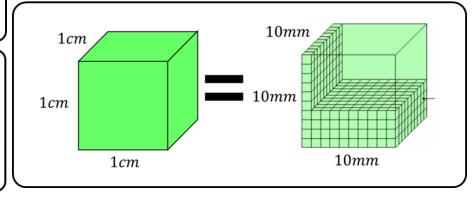
#### Volume conversions

The **volume** V of an object is how much 3D space the object occupies.

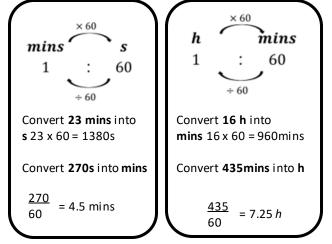
To measure the volume of a shape we count how many **cube units** we need to fill it up.

When converting between volume units we are changing the size of the cube we use to fill the object up.







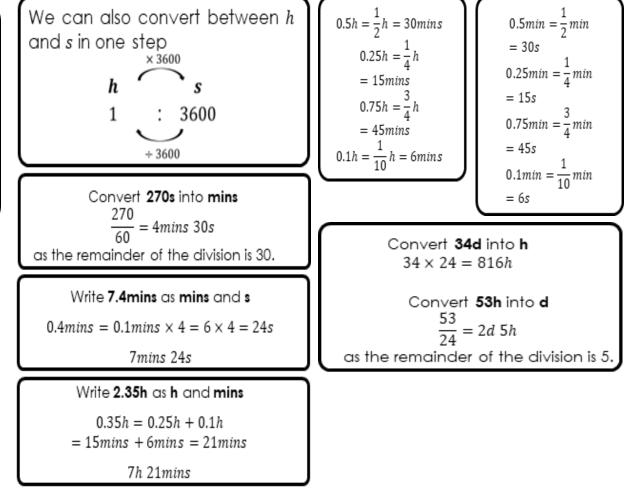


When converting between h and s, we can convert into *mins* first, then convert *mins* into s or h.

Convert **2.5h** into **s**  $2.5 \times 60 = 150mins$  $150 \times 60 = 9000s$  Convert **11520s** into **h**  $\frac{11520}{60} = 192mins$  $\frac{192}{60} = 3.2h$ 

When using time units, it is common to use a mixture of units rather than decimal numbers.

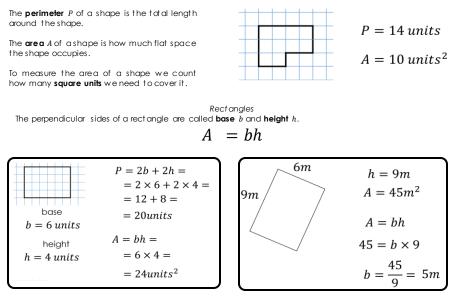
It is convenient to convert the decimal part into a fraction.





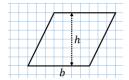
Perimeter and Area

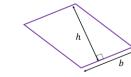
Triangles The **height** h of a triangle is the distance between the base (any of the three sides) and its <u>opposite vertex</u>.

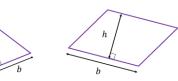


### Parallelograms

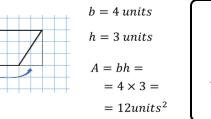
The height of a parallelogram is he distance between the base and its parallel side.

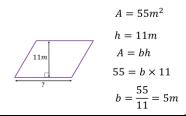


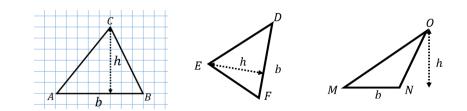


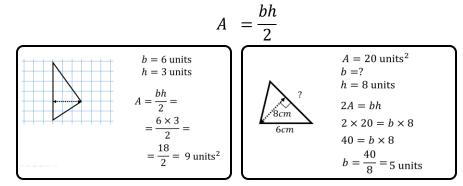












Circles

A circle is the shape closed by a curved line called <u>circumference</u>, whose points are **at the same distance** from the centre.

The **radius** is the distance from the centre to the circumference.

3.14159265358979323846264338327950288419716939937510582

The **diameter** is the distance from one point on the circumference to another, <u>passing through the centre</u>.

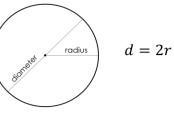
 $\pi$ 

Reads "pi".

It is an <u>irrational</u> number related to circles.

NOT terminating NOR recurring

0974944592307816406286208998628034825342117067982148 08651328230664709384460955058223172535940812848111745 02841027019385211055596446229489549303819644288109756 659334461284756482337867831652712019091456485669234603 48610454726648217797607260249141277724587006606715588 17488152092096282925409171536436789259036001133053054 882046652138414695194151160943305727036575959195309218 61173819326117931051185480744623799627495673518857527248 91227938183011949129833673362440656643086021394946395 247271007021708600427027705202171762021767522846748184 67669405132000568127145263560827785771342757789609173 6371787214684409012249534301465495853710507922796892 892354201995611212902196086403441815981362977477130996 051870721134999999837797804995105973173281609631859502 44594553469083026425223082533446850352619311881710100 031378387528865875332083814206171776691473035982534904 28755468731159562863882353787593751957781857780532171226 80661300192787661119590921642019893809525720106548586 327886593615338182796823030195203530185296899577362259



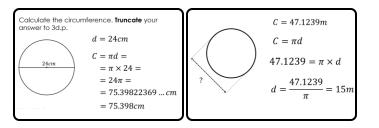
 $\pi \sim 3.1415$ 



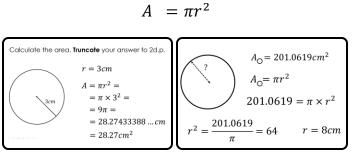
The **perimeter** of a circle is the length of the circumference.

To construct the **circumference** C, it takes  $\pi$  lots of the diameter.

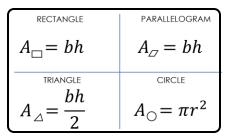
 $C = \pi d$ 



The **area** of a circle is equal to  $\pi$  lots of the radius squared.



### Area of shapes: sum mary.



### **Circumference and area of a** circle, 3D shapes

In geometry, three-dimensional (3D) shapes (or solid figures) are geometrical objects that have three dimensions such as length, width and height. Whereas 2D shapes have only two dimensions, i.e. length and width.

3D-shapes have a **volume** which is the space they occupy (2D-shapes have an area which is the flat space they occupy).

3D-shapes have

- Faces: flat or curved surfaces that enclose the shape Faces are two-dimensional and therefore have an area
- Edges: line segments where two faces meet. Edges ar one-dimensional and therefore have a length.

- Vertices: points where three or more edges meet.

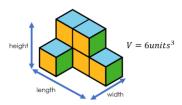
3D-shapes can be **polyhedrons** or **curved solids**.

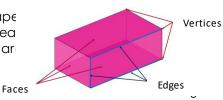
## Polyhedrons

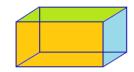
A polyhedron is a 3D-shape enclosed by flat faces.

The most common polyhedrons are

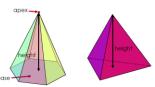
- Cuboids: solids with 6 rectangular faces, 12 edges and 8 vertices. A **cube** is a cuboid where all the faces are squares.
- Pyramids: solids with a polygon base and triangular side faces meeting in a vertex called apex. The perpendicular distance of the apex from the base is the height. A tetrahedron is a pyramid where all faces (including the base) are equilateral triangles; in a tetrahedron each face is a base and each vertex is an apex.
- Prisms: solids with two identical and parallel polygon bases and parallelograms (or rectangles) as side faces. Each cross-section of a prism is identical to the bases. The distance between the bases is the **height**.



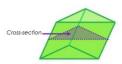




Cuboid



Pyramid Regular pyramid:



tetrahedron



Cross section

Pentagonal prism



A curved solid is a 3D-shape enclosed by curved faces.

The most common curved solids are

- Sphere: All points on the surface of the sphere are equidistant from a point called the centre. The distance of each point on the surface from the centre is the radius. The distance between two points on the surface passing by the centre is the **diameter**. A sphere has one face, no edges, no vertices.
- Cone: solids with a circular base and an apex. The perpendicular distance of the apex from the base is the height.
- Cylinder: solids with two identical and parallel circular bases connected through a curved surface. The curved face is a rectangle with two opposite sides joined together. A cylinder has a constant cross-section like a prism. The distance between the bases is the height.

### <u>Volume</u>

Cuboids, prisms, cylinders: the area of the base tells us how many unit cubes we can fit onto it, the height tells us how many layers we can fit into it the solid.

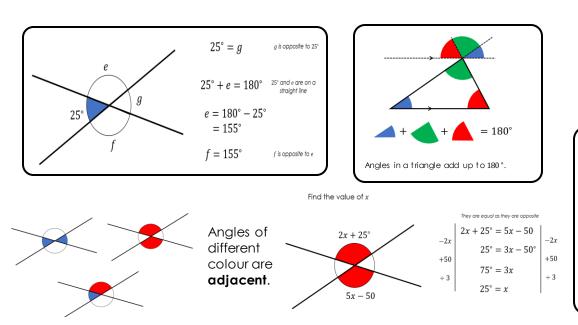
$$V = A_{base} \times h$$

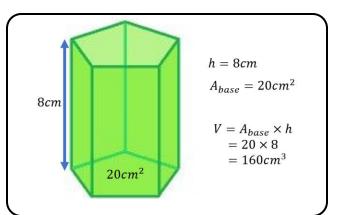
For a **cuboid**, as the base is a rectangle  $A_{base} = l \times w$ , one has

 $V_{cuboid} = l \times w \times h$ 

An <u>angle</u> is a measure of turn between two lines or two line segments with a point in common called <u>vertex</u>. Angles are measured in degrees °

Two intersecting lines form four angles. Opposite angles are equal. Two adjacent angles (angles with a side in common) add up to 180° (as they are on a straight line).



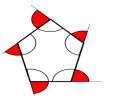


An **exterior angle** in a polygon is the angle **on a straight line** with the interior angle.

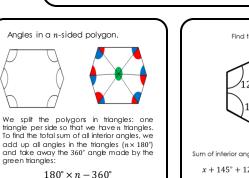
The exterior angles are the red angles.

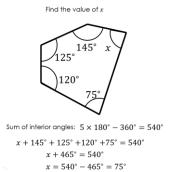
Each pair interior-exterior is 180°.

Adding all of these pairs up and taking away the total of the interior angles we find the total of the exterior angles.

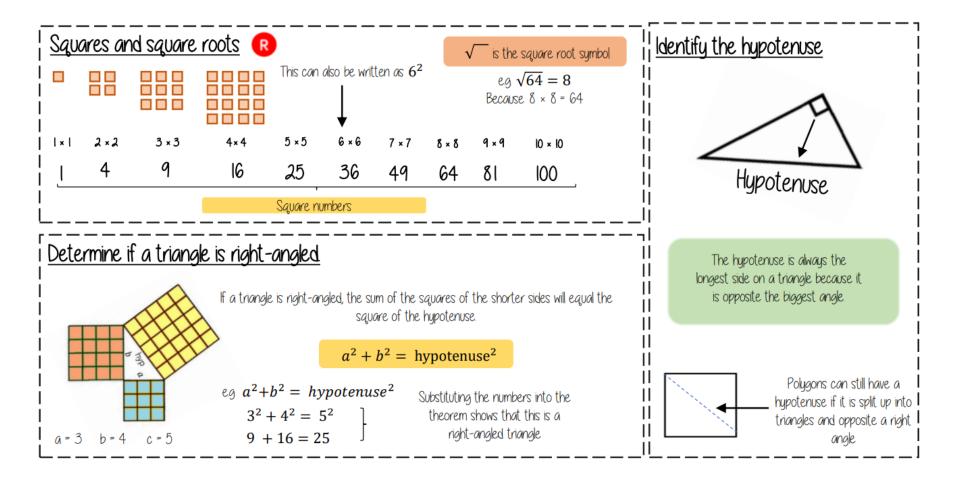


Exterior angles add up to  $360^{\circ}$ .  $180^{\circ} \times n - (180^{\circ} \times n - 360) = 360^{\circ}$ 

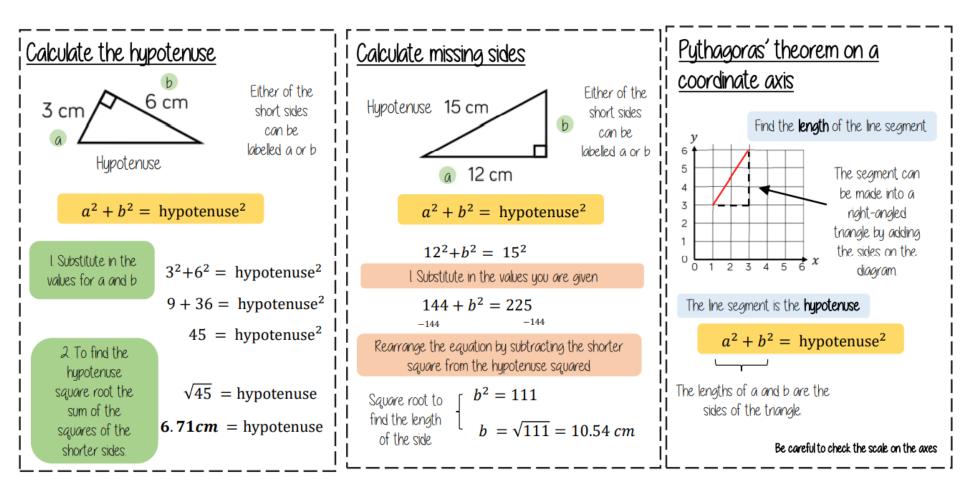


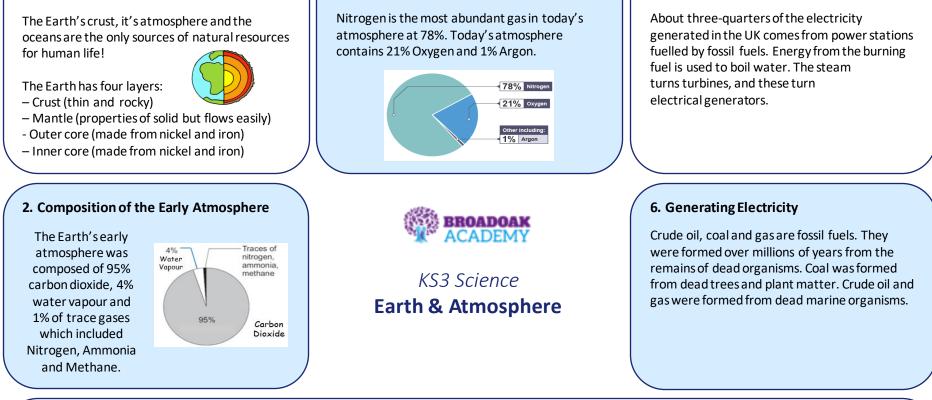












## 3. Evolution of Atmosphere

1. Composition of the Earth

In the 4.5 billion years since the Earth formed it's atmosphere has changed considerably. This has happened in three main stages:

## Stage 1–Volcanoes:

The majority of the early atmosphere was carbon dioxide and water vapour. This was produced by volcanoes. After a time the water vapour condensed and formed the oceans.

## Stage 2 – Green plants:

Green plants and algae evolved and used the carbon dioxide for photosynthesis. They also produced oxygen. Basic organisms evolved that were able to use the oxygen.

## Stage 3– Complex animals:

The oxygen allowed more complex organisms to form. The ozone layer formed and this allowed further evolution of complex organisms.

#### 4. Composition of the Today's Atmosphere 5. Fossil Fuels



Water

vapour

CO2



## 7. Non Renewable Energy Sources

Non renewable energy sources include fossil fuels such as coal, oil and natural gas. These sources are a finite resource, which means when they have been used up, they cannot be replaced. Worryingly, humans are using them faster than they are forming!



### 8. Renewable Energy Sources

Scientists are trying to find alternative methods of generating electricity using renewable energy sources.

These are energy sources that will not run out or produce carbon dioxide and other greenhouse gases. They are 'cleaner' and more sustainable although they do come with advantages and disadvantages.

### 9. Renewable Energy Resources

Resource	Adv.	Disadv.
Wind	no CO <sub>2</sub>	Unsightly, not always windy
Solar	No CO <sub>2</sub>	Expensive, not always sunny
Hydroelectric	No CO <sub>2</sub>	Destroys habitat
Geothermal	No CO <sub>2</sub>	Specificlocations

## 10. Carbon Cycle

All cells- whether animal, plant or bacteria - contain carbon. Carbon is passed from the atmosphere (as carbon dioxide) to living things, passed from one organism to the next and returned to the atmosphere as carbon dioxide again. This is known as the carbon cycl





## KS3 Science Earth & Atmosphere

### 11. Carbon Cycle

**Step 1: Removing carbon dioxide from atmosphere** Green plants remove carbon dioxide from the atmosphere by photosynthesis. The carbon becomes part of complex molecules such as proteins, fats and carbohydrates in the plants.

**Step 2: Returning carbon dioxide to atmosphere** Organisms return carbon dioxide to the atmosphere by respiration. It is not just animals that respire. Plants and microorganisms do, too.

## 12. Carbon Cycle

Step 3: Passing carbon from one organism to next When an animal eats a plant, carbon from the plant becomes part of the fats and proteins in the animal. Microorganisms and some animals feed on waste material from animals, and the remains of dead animals and plants. The carbon then becomes part of these microorganisms and detritus feeders. Step 4: Returning carbon dioxide to the atmosphere When fossil fuels are burned (combustion) in factories or transportation, carbon is released into the atmosphere as carbon dioxide gas.

## 13. Greenhouse Effect

The greenhouse effect is when greenhouse gases (carbon dioxide, methane and water vapour) in the Earth's atmosphere trap radiation from the sun and heat up the planet. Without the greenhouse effect the Earth would be too cold for us to survive on it.



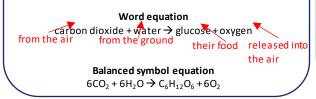
### 14. Global Warming

The extra greenhouse gases released by human activity lead to the enhanced greenhouse effect. More heat is trapped by the atmosphere, causing the planet to be come warmer than it would be naturally. The increase in global temperature this causes is called global warming.



#### 1. Photosynthesis in Plants

Animals need to eat food to get their energy. But green plants and algae do not. Instead they make their own food in a process called **photosynthesis**. Almost all life on Earth depends upon this process. Photosynthesis is also important in maintaining the levels of oxygen and carbon dioxide in the atmosphere.



### 2. Location of photosynthesis in plants

Photosynthesis takes place inside the chloroplasts of the plant cells, these contain a green pigment, **chlorophyll**. This absorbs the light energy needed to make photosynthesis happen. The leaf is a plant organ adapted to carry out photosynthesis. The table describes some of its adaptations:

Thin	a short distance for CO2 to move by diffusion	
Chlorophyll	Absorbs light	
Stomata	Allows CO2 to move in by diffusion	
Guard cells	open and close the stomata depending on the conditions	
Tubes	To transport water (xylem) and glucose (phloem)	/

## 3. Measuring the effect of light intensity on photosynthesis

#### Method:

- 1. Leave for five minutes for the pondweed to acclimatise to the new
- 2. Count the number of bubbles given off in one minute.
- Move the light 10 cm further back. 3.
- 4. Leave for five minutes for the pondweed to acclimatise again.
- 5. Count the number of bubbles given off in one minute.
- 6. Repeat by moving the lamp away by 10 cm intervals until 50 cm is reached.

#### 4. Habitats and Ecosystems

An ecosystem consists of communities of different living things, in single species **populations** living in their habitats. Examples of these include habitats include coral reefs, marshes and lakes. All the living things (biotic factors) and non-living things (abiotic factors) in an ecosystem depend upon each other for survival. This interdependence includes through feedi

ing, pollipation.		Individual
	-224	Population
		Community
		Ecosystem



## KS3 Science **Photosynthesis and Ecosystems**

#### 5. Sampling Techniques

Sampling is done to look at the organisms in a population within an ecosystem in a practical way as counting each one individually is not always feasible. This is usually done using guadrats which marks off small areas to then use to estimate the population. A quadrat is usually a square made of wire. It may contain further wires to mark off smaller areas inside, such as  $5 \times 5$  squares or  $10 \times 10$ 

squares. The organisms underneath, usually plants, can be identified and counted. Quadrats may also be used for slow-moving animals, eg slugs and snails.

### 6. Food Chains/Biomass

A food chain shows the different species of an organism in an ecosystem, and what eats what. Organisms at each level have different terms:



The population of each organism in a food chain can be shown in a bar chart called a pyramid of numbers or a pyramid of biomass where the bars are drawn to scale. Energy is lost to the surroundings as we go from one level to the next, so there are usually fewer organisms at each level in this food chain.

### 7. Food Webs

When all the food chains in an ecosystem are joined up together, they form a food web. Although it looks complex, it is just several food chains joined together.

This leads to some interesting effects if the population in the food web decreases. Some animals can just eat more of another organism if food is in short supply, while others may starve and die. This in turn can affect the populations of other organisms in the food web.



Mercury taken up through the food chain

Traces of mercury

### 8. Pollution and Pesticides

Some pollutants (including pesticides) quickly break down in the environment whilst others do not. These bio-accumulate in the food chain and damage the organisms in it. The predators at the end of the chain are most effected because compounds cannot be excreted and travel up the food chain.





	We need to talk about The British Empire			
			Key <mark>te</mark>	rms for this unit
	The British Empire was			
- Avy	so large it was said the "sun never sets on the	Empire		When countries are rule
	British Empire"	Colony		A country that is contro Eg. India, South Africa, A
لا		Imperialism		When a country wants t

1500s – England begins to establish itself as a naval power and looks to control more land

**History** 

1833 – Britain abolished slavery

1857 – The Indian Mutiny and the start of the British Raj in India

1919 – Amritsar massacre

1997 – Hong Kong was handed ↓ back to China. 1770 – Captain James Cook landed his ship in Australia

1842 – Britain took control of Hong Kong after the opium wars with China

1901 – Australian independence

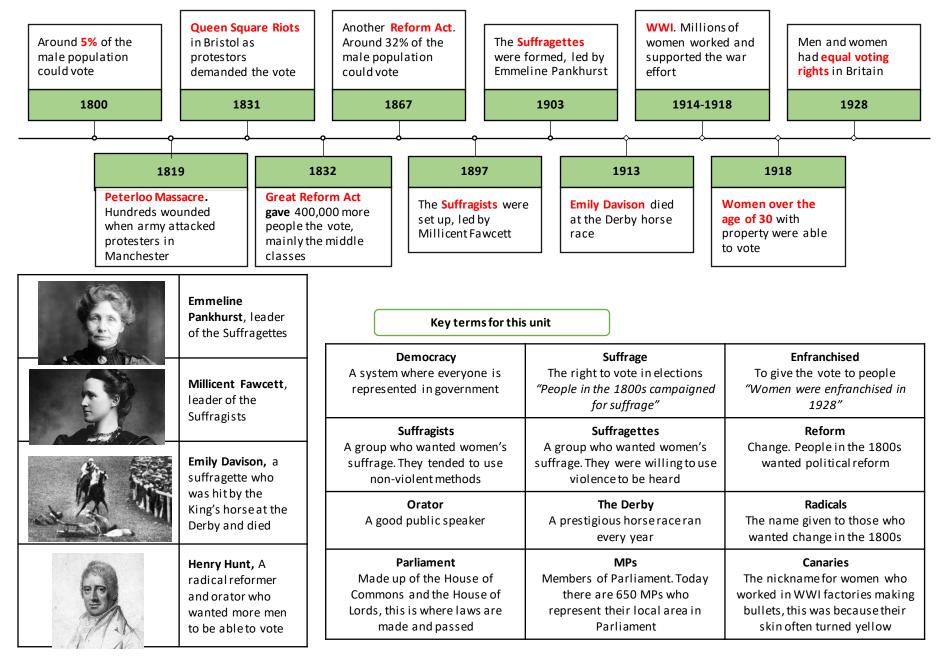
1947 – Indian independence

Keyte	Key terms for this unit				
Empire	When countries are ruled/controlled by another country.				
Colony A country that is controlled by an empire. Eg. India, South Africa, Australia, Canada.					
Imperialism When a country wants to extend their power, usually by force					
Decolonisation When colonies got their independence (freedom) and v longer controlled by an Empire					
Indian Mutiny When Indians fought back against British rule in India					
"Jewel in the The phrase used to describe India, the most important and Crown" valuable British colony					
Penal colony When convicts (criminals) were sent to Australia					
Aboriginals The people native to Australia. They have lived there for 60,000 years					
Opium A drug					

Trade (and money)	<u>Warfare</u>	Political power	<u>Religion</u>
The British could	The British used	and influence	The British tried to
make huge amounts	soldiers from	The British	spread Christianit
of money from	around the	became one of the	across the Empire
trading across the	Empire in their	most powerful	often ignoring
Empire. They could	army.	countries in	local religions and
also access resources		History. Even	cultures.
which otherwise		today, Britain is far	╵╴╺┛┖
were not available to		more powerful	╵  ┗┓┍
them.		than it's size	
		suggests.	<b>•</b> .



## Democracy in Britain c.1800-1928





## Geography

## Year 8 Geography Why do people live in the danger zone?

	Keywords			· · ·	•		-		
Natural hazard Tectonic hazard	·	y tectonic plate movement	Eart	th's structure	<ul> <li>Typhoons</li> <li>Large storms have winds u 320mp/h</li> <li>Form in the to where the oc</li> </ul>	p to ropics	convection currents	eye	cool dense air
Atmospheric hazard	A hazard in the atmo thunder and lightnin			• • Mantle	over 27°C.		RE	Y	- P
Tropical storm		w-pressure weather storm hoons and cyclones)		Crust	<ul> <li>Warm air rise Earth's spin c swirling patter</li> </ul>	auses the	hurricane v and rain	winds	warm moist air
Multi hazard zone	A location where tw occur	o or more hazards can			clouds				
Plate boundary	The line between tw fault line	vo plates, also known as a	Hazard Japan 2011: an ear a tsunami with way metres high				e <b>s 2013 – Tyr</b> 5 storm with		
Name of plate margin	Movement of plates	Hazards that occur	roo Col	15,000 people kille injured	ed and 6000	6,300 peo homeless	ople and 600,	.000 pe	ople
Constructive		Volcanoes, earthquakes	<u> </u>	Radioactive water ocean from the Tol Power Company		Flooding	caused lands	lides	
Destructive		Volcanoes, earthquakes	\$	Total damage cost	\$300 billion	6 million income	people lost tl	heirso	urce of
	A Sector		Immediate	A tsunami warning minutes after the e		•	broadcast 2 0,000 people	•	
Conservative		Earthquakes		Search and rescue	•	Charities	provided em vater and me	nergenc	
			Longterm	Installed a new tsu system	nami warning	•	buildings up d future disas	•	lto

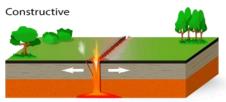


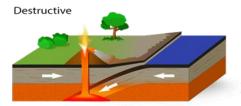
Why do so many people live in hazardous areas?

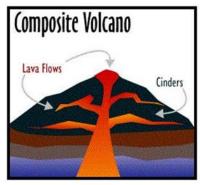


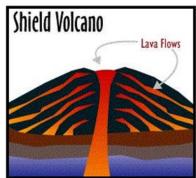
Tectonic plates











Keyword	Definition		Fault line
Natural Hazard	The potential threat to humans from a naturally occurring process/event	Epicer	ntre
Earthquake	A sudden, violent shaking of the ground as a result of movements of the earth's crust	11/CC	
Epicentre	The point on the earth surface directly above the focus of an earthquake	Seismic waves	
Focus	The origin of an earthquake beneath the earth's surface	Primary effect -	Secondary effect -
Magnitude	The strength of an earthquake	An effect which is a direct consequence of the natural hazard	An effect which is a consequence of the primary effects of a
Oceanic Crust	The thinner, denser part of the earth's crust which underlies ocean basins	Immediate response -	natural hazard
Continental Crust	The thicker, less dense part of the earth crust which forms large land masses	Something which usually occurs within the first three days of a natural hazard	Something which occurs weeks, months or years after a natural hazard
Lahars	A a destructive mudflow, usually as a result of a volcanic eruption	Tatulai Hazai u	
Pyroclastic Flow	A dense, destructive mass of very hot ash, lava fragments and gases ejected explosively from a volcano and typically	<b>Prediction</b> - Involve when the natural ha	
	flowing at great speed	<b>Preparation -</b> Puttin place to limit the los	• .

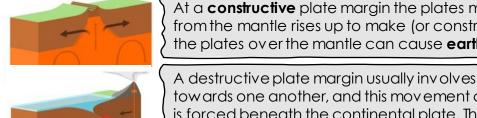
Tropical Storm - A hazard that brings heavy rainfall and strong winds. Also known as hurricanes, cyclones and typhoons

Protection - Building to an appropriate standard and using designs to withstand the natural hazard

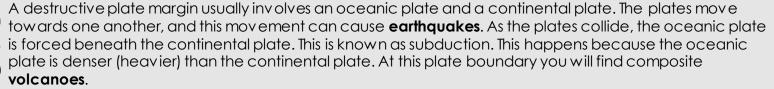
increase the chance of survival

## **BROADOAK** ACADEMY **Geography**

## Why do so many people live in tectonically active areas?



At a **constructive** plate margin the plates move apart from one another. When this happens the magma from the mantle rises up to make (or construct) new land in the form of a **shield volcano**. The movement of the plates over the mantle can cause **earthquakes**.



At a conservative plate margin, the plates move past each other or are side by side moving at different speeds. As the plates move, friction occurs and plates become stuck. Pressure builds up because the plates are still trying to move. When the pressure is released, it sends out huge amounts of energy, causing an **earthquake**.

The Earth is composed of **four** layers.

- The **outer layer is the crust**; this is <u>solid</u> and relatively thin.
- The **mantle** is underneath the crust; this is made of <u>semi molten rock</u>. Underneath the mantle, we have the **outer core**; this is <u>liquid</u> and is made of iron and nickel.
- At the centre of the Earth, we find the **inner core** made of <u>solid</u> iron and nickel. Scientists believe the core may be as hot as 5,500°C or hotter than the surface of the sun

100 km		Sea Le
670 km		
		Mantle
2900 km -		Outer Core
5150 km		Cuter Cole
		Inner Core
6371 km	V	

4	Atmospheric ha zards	Terrestrial/ Geological h azards	Water based haz ards	Biological Hazards
	Created in the atmosphe re, by the movement of air and water	Created by the moveme nt of the Earth's tectonic plat es or surface rock and soils	Created by rivers, sea or oceans	Any biological s ubstance that poses a threat to the health of people
	Hurricane	Earthquakes	Tsunami (both?)	COVID-19
	Drought	Landslides	Coastal/tid al floods	Malaria
	Forest Fires	Volcanoes	River flooding	



## Religion & World Views

## **The Afterlife**

## Ancient Egypt:

Throughout the underworld journey, the deceased's spirit would have to **contend with gods**, strange creatures and gatekeepers to reach Osiris and the Hall of Final Judgment. Here they would plead their case for entry into the afterlife.

The God Osiris was the god and chief of the underworld. The ancient Egyptians believed him to be a **dead king**, a former ruler who had been miraculously restored to life after being murdered by his brother Seth.

Once the journey through the underworld is complete, the deceased reach the Hall of Final Judgment. Judgment involved a two-part process:

## Part 1: standing before the 42 divine judges Part 2: weighing the heart

The ancient Egyptians believed each person was made up of five distinct parts - the physical body, the Ba, the Ka, the Name, and the Shadow.

The **Ba** was your personality, whatever made each person unique that was not physical - your humour, your warmth, your charm, yourself. The Ba is pictured in hieroglyphics as a bird with a human head.

The **Ka** was a life force. It was represented by two arms, outstretched. This was to ward off evil. When a person died, their Ka continued to live.





## Ancient Greece

Hades' goal was to increase the number of spirits in his underground kingdom. He ruled over funerals and ensured that the dead were buried properly and respectfully. However, once their spirit entered the Underworld, he made sure that they couldn't leave. Hades had a guard dog named Cerberus. Cerberus was said to have three heads and patrolled the entrance to the Underworld, making sure that the dead didn't exit, and the living didn't enter. In ancient Greek mythology, the Underworld wasa strange and scary place, ruled by the god Hades. It was where most humans went after they died. To get to the Underworld, first you had to find it! It was hidden down below the ground and surrounded by five rivers. This helped keep anyone from escaping or entering.

Also within the bowels of the Underworld is **Persephone**, Hades's wife. The story of Persephone is one of the greatest myths of the Underworld. **The** daughter of Zeus, the young goddess was gathering flowers when Hades abducted her to the Underworld.

## <u>The Vikings</u>

For Vikings, **the best possible outcome was to die bravely in battle.** They believed that, if they were lucky, winged female spirits called **Valkyries** would swoop down to collect the souls of the dying warriors and take them to live with Odin at Valhalla.

Valhalla was the Viking version of Heaven. The warriors who made it there would live in Odin's great hall and spend eternity drinking beer, eating roast meat, and having a great time.

Odin has many names and **is the god of both war and death.** Half of the warriors who die in battle are taken to his hall of Valhalla. He is the one-eyed All-Father, who sacrificed his eye in order to see everything that happens in the world.

Vikings were buried with all the things that were important to Vikings: their swords and axes; fine clothes; gold and jewellery. It was believed that they would need these in the afterlife.

## **BROADOAK** ACADEMY Religion & World Views

### Reincamation

Behaviours that prevent us reaching mukti

- hankar pride
- kam lust or desire
- karodh angaer
- lobh greed
- manmukh being self-centred instead of God-centred which is Gurmukh
- maya illusion looking at the world and ignoring Waheguru
- moh being too attached to the world

## Behaviours that lead to good karma:

- there is only one God Wa heguru
- worship and pray to Waheguru alone, and remember Waheguru at all times
- always work hard, and share with others
- live a truthful life
- remember that men and women are equal in the eyes of Waheguru
- the whole human race is one distinctions of colour and class are wrong
- idols, magic, omens, fasts, marks on the face and sacred threads are banned
- dress simply and modestly
- live a married life
- put your faith in the Guru Granth Sahib
- a void lust, anger, greed, a ttachment to worldly things and a rrogance
- live a humble and simple life

## Day of the Dead

**On October 31**, All Hallows Eve, the children make a children's altar to invite the spirits of dead children to come back for a visit. They believe that the gates of heaven are opened at midnight on October 31, and the spirits of all deceased children (*angelitos*) are allowed to reunite with their families for 24 hours.On this same day, small skulls are often placed on the *offrenda* (altar), representing the children who have passed.

**November 1** is All Saints Day, and the adult spirits will come to visit and larger and more detailed skulls replace the smaller ones, representing the deceased adults who now come down to enjoy the festivities that are prepared for them.

**November 2** is All Souls Day, when families go to the cemetery to decorate the graves and tombs of their relatives. Sugar skulls are often used to decorate the gravestones of the deceased.

## **The Afterlife**

Many Christians hold very different opinions of heaven and hell. This is because the bible does not specifically say what the afterlife might be. Below you will find information about these differing points of view.

The popular belief is that one enters heaven at the moment of death. This, however, is *not* part of the doctrine (rules) of all of Christianity. Some believe that the soul does not enter heaven until the last judgment or the end of time when it (along with the body) is resurrected and judged. This is called the resurrection of the body. Others believe that the soul goes to heaven immediately after death.

Heaven and hell are sometimes described as physical places. Often heaven is thought of as being up above and hell down below. Heaven is often described as a magical place with angels that sit on clouds and hell is a place filled with fire, torture and the devil. However not all Christians believe that heaven and hell are places that can be located geographically or in other words real places that exist. For other Christians heaven and hell are in fact just a state of mind or that it is the denial of the Beatific Vision.

Original Christian teaching is that people who did not accept Jesus and follow his teachings would be sent to hell after death and be punished there for eternity. However Christian thinking and teachings have changed over time:

<u>Protestants</u>: hold strongly that when Jesus died on the cross, he took upon himself the punishment for the world's sin. Therefore they believe that you can go to heaven by having faith in Jesus Christ – not through living a good life or belonging to a particular church. Although Protestants believe that entering heaven requires one to have faith in Christ and that is all. It is widely believed that people who have lived an evil life will be denied entry to heaven.

<u>The Roman Catholic Church</u>: teaches that those who have died free of sin, because they have confessed, will go straight to heaven. However those with unrepented sin will go to a place called purgatory to undergo purification or in other words so they can be forgiven. Once they are forgiven they may enter heaven.

<u>Other</u>: Christians believe in an approach called Universalism. This is that God is benevolent and just and therefore he would not allow anyone to suffer for eternity in hell therefore everyone, Christian or not, is allowed to enter heaven.



Languages 8.5 Present Holidays - Spanish Vocab List

	¿Dónde vas?	Where do you go?
4	Voy	l go
	a París / a Londres	to Paris / to London
	a Francia	to France
8	a España	to Spain
	a Inglaterra	to England
$\boldsymbol{\times}$	a Escocia	to Scotland
	a Irlanda	to Ireland
*	a Gales	to Wales
1	a Portugal	to Portugal
C	a Pakistán	to Pakistan
	a Polonia	to Poland
*	a Somalia	to Somalia
T	al Caribe	to the Caribbean
	al Reino Unido	to the UK
	a los Estados-Unidos	to the States
	a los Países Bajos	to the Netherlands
	¿Qué visitas?	Where do you visit?
	<b>¿Qué visitas?</b> Visto / Visitamos	Where do you visit? I visit/We visit
0. 		
°. A	Visto / Visitamos	I visit/We visit
	Visto / Visitamos la playa la piscina	I visit/We visit The beach
	Visto / Visitamos la playa la piscina	I visit/We visit The beach The swimming pool
	Visto / Visitamos la playa la piscina el centro	I visit/We visit The beach The swimming pool The town centre
	Visto / Visitamos la playa la piscina el centro el museo	I visit/We visit The beach The s wimming pool The town centre The museum
	Visto / Visitamos la playa la piscina el centro el museo el mercado	I visit /We visit The beach The s wimming pool The town centre The museum The market
	Visto / Visitamos la playa la piscina el centro el museo el mercado el estadio (de	I visit /We visit The beach The swimming pool The town centre The museum The market The (football/rugby)
	Visto / Visitamos la playa la piscina el centro el museo el mercado el estadio (de fútbol/rugby)	I visit/We visit The beach The swimming pool The town centre The museum The market The (football/rugby) stadium
	Visto / Visitamos la playa la piscina el centro el museo el mercado el estadio (de fútbol/rugby) el parque de	I visit/We visit The beach The swimming pool The town centre The museum The market The (football/rugby) stadium
	Visto / Visitamos la playa la piscina el centro el museo el mercado el estadio (de fútbol/rugby) el parque de atracciones	I visit /We visit The beach The swimming pool The town centre The museum The market The (football/rugby) stadium The theme park The monuments
	Visto / Visitamos la playa la piscina el centro el museo el mercado el estadio (de fútbol/rugby) el parque de atracciones los monumentos	I visit /We visit The beach The swimming pool The town centre The museum The market The (football/rugby) stadium The theme park
	Visto / Visitamos la playa la piscina el centro el museo el mercado el estadio (de fútbol/rugby) el parque de atracciones los monumentos las tiendas	I visit /We visit The beach The swimming pool The town centre The museum The market The (football/rugby) stadium The theme park The monuments The shops The cafés
	Visto / Visitamos la playa la piscina el centro el museo el mercado el estadio (de fútbol/rugby) el parque de atracciones los monumentos las tiendas los cafés	I visit /We visit The beach The swimming pool The town centre The museum The market The (football/rugby) stadium The theme park The monuments The shops

	¿Dónde te alojas?	Where do you stay?				
	Me alojo en / Me quedo en	Istayin	0	,	¿Qué haces?	W
	un hotel (de cinco estrellas)	A (five star) hotel		Ŷ	Descansar	To
	un camping	A campsite			*Divertirse (me divierto)	
Å	un apartamento	An appartment	Ň	ĥ		fu
	una caravana	A caravan	Í	Ì	Tomarelsol	To
V			00		Visitar monumentos	Тс
	una tienda	Atent	10	91	*Iralaplaya	To
	un al bergue juve nil	A youth hostel	÷.	•	*Ir al restaurante	Τc
	una caravana estática	A static caravan	3	7		re
88	en casa de mis abuelos	At mygrand-parents'	ĽC		*Ir de compras	Tc
1 801	un parador	A state-owned luxury	<b>7</b>		*Dar un paseo	To
×		hotel	Ę		Sacar/tomar fotos	Tc
	una pensión	A B&B	Ø	3	Comprarrecuerdos	To
	¿Cómo viajas?	How do you travel?			naceracpone	To
					*Ilo cordonartos	
			1	X	*Hacer deportes	To
ť	Viajo / Viajamos	I travel / We travel		x	acuáticos	Тс
Ĩ	Viajo/Viajamos a pie	I tra vel / We tra vel by foot		<b>x</b>	•	Tc Tc
et.	Viajo/Viajamos a pie en bici	I travel / We travel byfoot bybike/pushbike	Ž	Ģ	a cuáticos Bailar en la discoteca	Тс
<b>ال</b> مراجع	Viajo/Viajamos a pie en bici en moto	I travel / We travel by foot by bike/pushbike by motorbike	-	Ģ	acuáticos	
۲ ۳ ۲	Viajo/Viajamos a pie en bici en moto en coche	I travel / We travel byfoot bybike/pushbike bymotorbike bycar		ð 7	a cuáticos Bailar en la discoteca	Тс
	Viajo/Viajamos a pie en bici en moto en coche en tren	I travel / We travel byfoot bybike/pushbike bymotorbike bycar bytrain		7	a cuáticos Bailar en la discoteca ¿Dónde está?	Tc Wh
	Viajo/Viajamos a pie en bici en moto en coche en tren en barco/en crucero	I travel / We travel byfoot bybike/pushbike bymotorbike bycar bytrain byboat / bycruiseship		7 7 0	a cuáticos Bailar en la discoteca ¿Dónde está? Está lejos Está cerca	To Wh It's It's
	Viajo/Viajamos a pie en bici en moto en coche en tren en barco/en crucero en metro	I travel / We travel byfoot bybike/pushbike bymotorbike bycar bytrain byboat / bycruiseship bytube		7 7 00	a cuáticos Bailar en la discoteca ¿Dónde está? Está lejos Está cerca Está a <u>cinco</u> minutos	Tc Wh It's It's
	Viajo/Viajamos a pie en bici en moto en coche en tren en barco/en crucero en metro en autocar	I travel / We travel byfoot bybike/pushbike bymotorbike bycar bytrain byboat / bycruiseship bytube bycoach	2 2 0 0 1	7 7 5	a cuáticos Bailar en la discoteca ¿Dónde está? Está lejos Está cerca	To Wh It's It's
	Viajo/Viajamos a pie en bici en moto en coche en tren en barco/en crucero en metro en autocar en autobús	I travel / We travel byfoot bybike/pushbike bymotorbike bycar bytrain byboat / bycruiseship bytube bycoach bybus		7 ⊅ ₽	a cuáticos Bailar en la discoteca ¿Dónde está? Está lejos Está cerca Está a <u>cinco</u> minutos	Tc Wh It's It's It's
	Viajo/Viajamos a pie en bici en moto en coche en tren en barco/en crucero en metro en autocar en autobús	I travel / We travel byfoot bybike/pushbike bymotorbike bycar bytrain byboat / bycruiseship bytube bycoach	~√ 22 ₹ 1	7 7 0 1	a cuáticos Bailar en la discoteca ¿Dónde está? Está lejos Está cerca Está a <u>cinco</u> minutos Está a <u>300</u> metros	Tc Wh It's It's

	¿Qúe tiempo hace?	What is the weather like?
° @	Hace buen / mal tiempo	It is good / bad weather
∥× ∬́≉	Hace calor/frío	Itis hot/cold
<u>-Ö-</u>	Hace sol	It is sunny
Î.	Hace 25 grados	It is 25 degrees
Å	Llueve	It is raining
	Nieva	It is snowing
	Hayviento	It is windy
	Haynubes	There are clouds

Descansar       To rest         Divertirse (me divierto)       To have fun (I have fun)         Tomarel sol       To sunbathe         Visitar monumentos       To go to the beach         Ir a la playa       To go to the restaurante         It a restaurante       To go to the restaurant	*Divertirse (me divierto)	To have fun (I have fun) To sunbathe
Visitar monumentos To visit monuments Visitar monumentos To go to the beach I al restaurante To go to the restaurant	Visitar monumentos	fun) To sunbathe
Visitar monumentos To visit monuments Visitar monumentos To go to the beach I al restaurante To go to the restaurant	Visitar monumentos	Tosunbathe
Visitar monumentos To visit monuments Visitar monumentos To go to the beach I al restaurante To go to the restaurant	Visitar monumentos	
Visitar monumentos To visit monuments Visitar monumentos To go to the beach I al restaurante To go to the restaurant	Visitar monumentos	To visit monuments
*Ir al restaurante To go to the restaurant	YOY *Irala playa	
X restaurant	<u></u>	0
X restaurant	♣ *Ir al restaurante	
	<u>X</u>	
I'l de comprasTo go shopping	-	0 11 0
*Darun paseo To go for walks		Ŭ
🚯 Sacar/tomar fotos To take photos		
Comprar recuerdos To buy souvenirs		
Thater deporte To do (play) sports	*Hacer deporte	
*Hacer deportes To do water sports		To do water sports
acuáticos		<b>-</b> 1 - 1 - 1 - 1
Bailar en la discoteca To dance in the club	Bailar en la discoteca	To dance in the club
$\sqrt[n]{}$ ¿Dónde está? Where is it?		Where is it?
😮 Estálejos It's far	🍅 Estálejos	It's far
© Está cerca It's nearby		It's nearby
↑ Está a <u>cinco</u> minutos It's <u>5</u> minutes away	↑ Está a <u>cinco</u> minutos	It's <u>5</u> minutes away
Está a <u>300</u> metros It's <u>300</u> metres a way	Está a <u>300</u> metros	It's <u>300</u> metres a way
I iga todo recto Go straight on	I I Siga todo recto	Gostraighton
En el semáforo siga todo At the traffic lights go		
recto straight on	recto	s traight on
En la rotonda gira a la At the roundabout turn	🛨 En la rotonda gira a la	At the roundabout turn
		right
→derecharight●Gira a la izquierdaTurn left	🧿 Gira a la izquierda	Turn left
👰 Gira a la derecha Turn right	🍥 Gira a la derecha	Turn right
Tome la primera Take the first	🗚 Tome la primera	Take the first
← Tome a segunda Take the second	Tome a segunda	Take the second
Cruza el puente Cross the bridge	Cruza el puente	Cross the bridge

# ACADEMY Languages

8.5 Present Holidays - Spanish Knowledge Organiser

## The present and future tenses

There are three types	of verbs	in Spanish a	nd in their	' infinitive
form they end in:				
-ar -er -ir				

## The Near Future :

The near future **tense** is used to express something that will be happening in the very near future. It is formed by conjugating the verb **ir** (to go) in the present tense + a + an infinitive.

**The present tense :** Depending on the pronoun, we change the ending of the verb using the table below :

Example: I'm going to travel by plane > <u>Voy a viajar</u> en avión.

ending of the verb using the table below :		<b>English</b> To go (present) "a" Infir			Infinitive			
Pronouns	-ar	-er	-ir		10 80 (present)	a	minuve	
				I am going to go	Voy	а	ir	
<b>yo</b> (I)	-0	-0	-0	You are going to play	Vas	а	jugar	
tú (you)	-as	-es	-es				, 0	
	45			He/she is going to visit	Va	а	visitar	
<b>él</b> (he), <b>ella</b> (she)	-a	-е	-е	We are going to swim	Vamos	а	nadar	
Nosotros/nosotras (we)	-amos	-emos	-imos	You (pl.) are going to read	Vaís	а	leer	
<b>Vosotros/vosotras</b> (you) (pl)	-áis	-éis	-ís	They are going to do	Van	а	hacer	
ellos/ellas (they)	-an	-en	-en	Time markers tell us wh which tense is being use tense.				
Example:			<ul> <li>Mañana - tomorrow</li> <li>La semana próxima- next week</li> <li>El fin de semana que viene – next weekend</li> </ul>					
Descans <u>ar</u> = <u>to</u> rest Com	<u>er</u> = <u>to</u> eat	viv <u>ir</u> =	<u>to</u> live	El próximo mes - next r El año que viene – next y				
Descans <u>o</u> = <u>I</u> rest Com <u>em</u>	<u>os</u> = <u>we</u> ea	t viv <u>en</u> =	<u>they</u> live	En dos años – In two yea				



	Las opiniones	Opinions
☺	Fue genial	It was great
☺	Fue fantástico	It was fantastic
ப	Fue interesante	It was interesting
8	Fue emocionante	It was exciting
<b>**</b>	Fue inolvidable	It was unforgettable
0	Fue increíble	It was incredible
X	Fue demasiado corto	It was too long
×	Fue demasiado largo	It was too short

	¿Qué tiempo hacía?	What was the weather like?
ம	Hacía buenti empo	It was nice weather
ſſ	Hacía maltiempo	It was bad weather
Ö	Hacía sol	It was sunny
<b>●</b> ☆	Hacía calor	It was hot
*	Hacía frío	It was cold
പ്പ	Hacía viento	It was windy
<i>[]</i>	Llovía	It was raining

¿Qué hiciste durante las vacaciones?	What did you do on holidays?
Fui a la playa	I went to the beach
fui al restaurante	I went to the restaurant
fui de compras	Iwentshopping
Me quedé	I stayed
Comí	late
Bebí	Idrank
Vi	Isaw
Probé	I tried (food)
Hice deportes acuáticos	I did watersports
Descansé	l rested
Me relajé	Irelaxed
Me divertí	I had fun
Visité monumentos	I visited monuments
Di paseos	I went walking
Saqué fotos	I took photos
Compré recuerdos	I bought souvenirs
Tomé el sol	Isunbathed
	vacaciones?Fui a la playafui al restaurantefui de comprasMe que déComíBebíViProbéHice deportes acuáticosDe s canséMe rel ajéMe divertíVisité monumentosDi paseosSaqué fotosCompré recuerdos

	La vida cotidiana	Daily life
<b>††</b>	La gente	People
ŤŤ	Los habitantes	Inhabitants
((v	Hablar	To speak
<u>لې</u>	Vivir	Tolive
\$	Celebrar	To celebrate
	Preparar	To prepare
ΗÂ	Ir a trabajo	To go to work
$\triangleright$	Ir al instituto	To go to school
ĥ	Volvera casa	To go back home
	Verla tele	To watch TV
Ϊ	Cenar	To have dinner
Ģ	Bañarse	To have a bath
A	Ducharse	To have a shower

¿Cuando?	When?
Ayer	Yesterday
La semana pasada	Lastweek
El fin de semana pasado	Lastweekend
El mes pasado	Lastmonth
El año pasado	Lastyear
Hace dos días	Two days ago
El otro día	The other day

## **BROADOAK** ACADEMY Languages

**8.6 Past Holidays -** Spanish Knowledge Organiser

## Reflexive verbs, the preterite (past tense)

A **verb** is a doing, being or having word. e.g. to speak, to eat, to be. <u>**Reflexive verbs**</u> in Spanish are verbs which usually mean an action done to yourself (e.g. wash yourself, shower etc.). Many are regular -ar verbs and they need an extra <u>**reflexive pronoun**</u>. We know a Spanish verb is reflexive because it will have «se » on the end of its infinitive eg. lavarse (to wash) and levantarse (to get yourself up).

Subject pronouns	<b>Reflexive pronouns</b>
<b>yo</b> (I)	me
<b>tú</b> (you)	te
<b>él (</b> he), <b>ella</b> (she)	se
nosotros/as (we)	nos
<b>vosotros/as</b> (you) (pl)	OS
ellos/ellas (they)	se

## Examples:

lavarse - to wash

<u>me</u> lavo > I wash

levantarse- to get up

<u>nos</u> levantamos > we get up

Ducharse- to shower

Te duchas > you shower

The **preterite** is the past tense used in Spanish to describe a completed action at a specific time in the past (e.g. ayer (yesterday), el año pasado (last year)). For regular we take off –ar, -er – ir and add the below endings :

	-AR	-ER / -IR
I	é	í
You (sg)	aste	iste
He/she/it	Ó	ió
We	amos	imos
You (pl)	asteis	isteis
They	aron	ieron

## Examples:

Tomar = to takeHablar = to speakTo form "I took"To form "she spoke"TOMX > tom > toméHABLX > habl > habló

Careful! Not all verbs are regular in the preterite. Some key irregulars are :

hice, hiciste, hizo, hicimos,	
hicisteis, hicieron	
fui, fuiste, fue, fuimos,	
fuisteis, fueron	
fui, fuiste, fue, fuimos,	
fuisteis, fueron	
tuve, tuviste, tuvo, tuvimos,	
tuvisteis, tuvieron	



	Tu vas où?	Where do you go?
	Je vais	lgo
	À Paris/Londres	to Paris / to London
	En France	to France
8	En Espagne	to Spain
	En Angleterre	to England
$\boldsymbol{\times}$	En Écosse	to Scotland
	En Irlande	toIreland
1	Au Pays de Galles	to Wales
	Au Portugal	to Portugal
C	Au Pakistan	to Pakistan
	En Pologne	to Poland
	En Somalie	to Somalia
Ť	Aux Caraïbes	to the Caribbean
	Au Royaume Uni	to the UK
	Aux États-unis	to the States
	Aux Pays Bas	to the Netherlands
-		

	Qu'est-ce que tu visites?	What do you visit?
	Je visite/ Nous visitons	l visit/We visit
°P	La plage	The beach
	La piscine	The swimming pool
ŵ	Le centre-ville	The town centre
Î	Le musée	The museum
	Le marché	The market
	Le stade de foot/ rugby	The (football/rugby)
		stadium
N\$	Le parc d'attraction	The the me park
<u>i</u>	Les monuments	The monuments
	Les magasins	The shops
$\mathbb{X}$	Les cafés	The cafés
	Les restaurants	The restaurants
$\overline{\mathbb{A}}$	L'office de tourisme	The tourist office

୍

II neige

II ya du vent

Il ya des nuages

 $\overline{\dots}$ 

್ಲಿ

Ś

	Tu restes où?	Whe	ere do you stay?	
	Je restedans	l sta	yin	
1991	un hôtel cinq étoiles	A (fi	ve star) hotel	
	Un camping	A ca	mpsite	
	Un appartement	An a	ppartment	
Ę	Une caravane	A ca	ravan	
$\mathbf{X}$	Une tente	A te	nt	
	Une auberge de jeunesse	А уо	uth hostel	
्रा	Un mobil-home	A st	a tic caravan	
2	Chez mes grand-parents	At m	ny grand-parents'	
	Un hôtel de luxe	Ast	a te-owned luxury	
		hote	el .	
X	Un B&B	A B8	kВ	
	Comment Voyager?		How do you travel?	
	Je voyage/nous voyageons		I tra vel / We tra vel	
Ť.	àpied		byfoot	
đ	à vélo		by bike/pushbike	
<u>E</u>	en moto		bymotorbike	
0 <sup>4</sup> 0 2≟ ₽	en voiture		bycar	
	entrain		bytrain	
<u>A</u> É	en bateau/ en bateau de		byboat/bycruiseshi	р
	croisière			
	en métro		bytube	
	en car en bus		by coach	
	en avion		bybus byplane	
				0
<u> </u>	Quel temps fait-il ?	What	is the weather like?	6
akin ∞∎	II fait beau/iI fait mauvais		good/bad weather	
10 <b>(</b>	II fait chaud/ froid		not/cold	
-Q-	Il ya du soleil	ltis s		
الله من ال	il fait 25 degrés		5 degrees	
	Ilpleut	ltis r	aining	

It is snowing

There are clouds

It is windy

Que fais-tu?	What do you do?
Se relaxer	To rest
S'a muser (je m'amuse)	To have fun (I have fun)
Bronzer	To sunbathe
Visiter des monuments	To visit monuments
Alleràlaplage	To go to the beach
Alleraurestaurant	To go to the restaurant
Faire du shopping	To go shopping
Se promener	To go for walks
Prendre des photos	To take photos
Acheter des souve nirs	To buy souvenirs
Faire du sport	To do (play) sports
Faire du sport nautique	To do water sports
Danser en boîte	To dance in a club
	Se relaxer S'amuser (je m'amuse) Bronzer Visiter des monuments Aller à la plage Aller au restaurant Faire du shopping Se promener Prendre des photos Acheter des souvenirs Faire du sport Faire du sport nautique

	C'est où?	Where is it?
S.C.	C'estloin	lt's far
$\triangleleft$	C'est proche/à proximité	lt's nearby
٢	C'està 5 minutes d'ici	lt's <u>5</u> minutes away
Q <u>. o</u>	<u>C'est</u> à <u>300</u> mètres d'ici	It's <u>300</u> metres a way
1	Alleztout droit	Go straight on
Ê	Aux feux, continuez tout droit	At the traffic lights go straight on
)	Au rond-point tournez à droite	At the roundabout turn right
€	Tournez à gauche	Turn left
✐	Tournez à droite	Turn right
Ō	Prenez la première	Take the first
2	Prenez la deuxième	Take the second
44	Tra ve rs ez le pont	Cross the bridge

# ACADEMY Languages

8.5 Present Holidays - French Knowledge Organiser

## The present and future tenses

There are three types of verbs in French and in their infinitive form they end in:

-er -ir -re

## The Near Future :

The near future **tense** (le futur proche) is used to express something that will be happening in the very near future. It is formed by conjugating the verb *aller* (to go) in the present tense, followed by an infinitive.

For the **present tense**, depending on the pronoun, we change the ending of the verb using the table below :

Pronouns	-er	-ir	-re			
Je (I)	-e	-is	-S			
<b>Tu</b> (you)	-es	-is	-S			
il (he) <i>,</i> elle (she)	-е	-it /				
Nous (we)	-ons	-issons	-ons			
<b>Vous</b> (you) (pl)	-ez -issez -ez					
ils / elles (they)	-ent	-ent -issent -ent				
Examples:         Porter = to wear > je porte = l wear         Finir = to finish > nous finissons = we finish         Vendre = to sell > ils vendent = they sell						

English	To go (present)	Infinitive
I am going to go	Je vais	aller
You are going to play	Tu vas	jouer
He/she/we are going to visit	II/elle/on va	visiter
We are going to swim	Nous allons	nager
You (pl.) are going to read	Vous allez	lire
They are going to do	lls/elles vont	faire

## Going to or living in a country

In French the word "to" or "in" with countries changes depending on if they are masculine, feminine, plural or a town/city. Countries which end in "e" are almost always feminine (this really helps)

## Examples :

Je vais **en** Espagne (**feminine**)  $\rightarrow$  I go **to** Spain Je vais **au** Portugal (**masculine**)  $\rightarrow$  I go **to** Portugal Je vais **à l**'hôtel (**vowel**)  $\rightarrow$  I go **to the** hotel Je vais **aux** Etats-Unis (**plural**) -> I go **to** the USA Je vais **à** Paris (**town/city**) -> I go **to** Paris





les participes passés irréguliers?	Irregular past participles
Faire → fait	To do $\rightarrow$ did
Prendre → pris	To take → took
Boire → bu	To drink → drank
Voir → vu	To see → saw
Lire → lu	To read $\rightarrow$ read
Vouloir → voulu	To want → wanted
Dire → dit	To say → said
Devenir → devenu	To become → became
Avoir → eu	To have $\rightarrow$ had
Écrire → écrit	To write → wrote

Les opinions	Opinions
C'était	It was
Génial	Great
Fantastique	Fantastic
Intéressant	Interesting
Touchant	Moving (emotionally)
Inoubliable	Unforgetable
Incroyable	Incredible
Trop court	Too short
Ennuyeux/barbant	Boring
Trop long	Trop long
Passionnant	Exciting
Émouvant	Emotional

Quand?	When?
Aujourd'hui	Today
Normalement	Normally
D'habitude	Usually
Parfois/quelquefois	Sometimes
Pendant la pause/le trajet	During breaktime/the journey
Le weekend	On the weekend
Après le collège	After school
deux fois par semaine	Twice a week
souvent	Often
Toujours	Always
Rarement	Rarely
De temps en temps	From time to time
Le lundi	On Monday
Hier	Yesterday
Récemment	Recently
Le week-end dernier	Last weekend
La semaine dernière	Last week
L'année demière	Last year
ll y a un mois	A month ago
Demain	Tomorrow
Bientôt	Soon
A l'avenir	In the future
Le weekend prochain	Next weekend
La semaine prochaine	Next week
L'année prochaine	Next year
Dans un mois	In a month

Qu'est-ce que tu fais normalement?	What do you do normally?
Se reposer (je me repose)	Torelax
Se relaxer (je me relaxe)	To relax
S'amuser (je m'amuse)	To have fun
Se baigner (je me baigne)	To bathe
S'habiller (je m'habille)	To get dressed
Se lever (je me lève)	To get up
Se laver (je me lave)	To wash
Se réveiller (je me réveille)	To wake up
S'entendre avec (je m'entends avec)	To get on with
Se brosser les dents/ les cheveux (je me	To brush teeth/hair
brosse)	
Se doucher (je me douche)	To shower
Se maquiller (je me maquille)	To put on make-up

	Quel temps faisait-il?	What was the weather like?
•	II faisait beau	It was good weather
1	Il faisait chaud	It was hot
60	Il faisait froid	It was cold
Ĵ	Il faisait 25 degrés	It was 25 degrees
	II faisait mauvais	It as bad weather
	Il pleuvait	It was raining
-	Il neigeait	It was snowing
B	ll y avait du vent	It was windy
3	Il y avait des nuages	It was cloudy
S	Il y avait des orages	It was stormy
-	ll y avait du brouillard	It was foggy
***	ll y avait du soleil	lt was sunny

A verb is a doing, being or having word, e.g. to speak, to eat, to be.         Reflexive verbs in French are verbs which usually mean an action done to yourself (e.g. straighten your hair, frush your teeth, etc.). Many are regular-erverbs and they need an extra reflexive pronoun.         Subject pronouns       Reflexive pronoun         je (i)       me         tu (you)       te         il (he), elle (she), on (we)       se         nous (we)       nous         vous (you) (pl)       vous         vous (you) (pl)       vous         vous (you) (pl)       se         Vous etres (les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten one's hair se brosse les dents - to straighten my hair se brosse les dents - to shower       AVOIR ÉTRE         Vous avez       Vous avez       Vous avez       Vous setes         il / elle a       il / elle est       Nous avons         Nous avons       Nous avons       N	BROADOAK ACADEMY	<b>Nguages</b> 8.6 Past Holidays - French K         Organiser			h Knowledge		xive verbs, the perfect tense tense)		
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## **Food Tech**

### Health and Safety





Carry knives pointing down.

Wash up with hot

water and washing liquid.



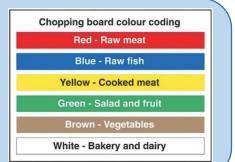
Clean surfaces and equipment to kill bacteria.



Wash hands with soap after touching raw meat.



Wipe up spills straight away to avoid slips.



### **Knife Skills**

- · Always carry knives pointing downwards
- Always pass knives by the handle
- Never run or fight with knives
- · Keep the knife blade away from your fingers when cutting
- Never cut towards yourself
- Never leave a knife in the sink
- · Never try and catch a knife if it falls

When using a knife there are TWO techniques we can use to ensure knife safety when cutting ingredients.





Claw grip

Arch grip

Nutrient	Use in the body	Sources
Carbohydrates	To provide energy.	Potatoes, pasta, bread, rice, lentils, noodles, flour.
Protein	For growth, repair and some energy.	Eggs, milk, yoghurt, cheese, fish and seafood, nuts, seeds, soya, meat.
Fat	To provide energy. Also to store energy in the body and insulate it against the cold.	<u>Animal fats</u> : Lard, butter, fish. <u>Plant based</u> : Olive oil, sunflower oil.
Minerals	Needed in small a mounts to maintain health e.g. calcium for bone health.	<u>Calcium</u> : Milk, cheese, dairy , green leafy vegetables. <u>Iron</u> : Clams, liver, sunflower seeds, nuts, beef, lamb, beans, whole grains, dark leafy greens.
Vitamins	Needed in small a mounts to maintain health.	<u>Vitamin D</u> : Fish oils, fatty fish, mushrooms, beef. <u>Vitamin B</u> : Cereals.
Fibre	Helps to keep the food moving through the gut.	Cereals, bread, beans, lentils, fruit & vegetables.



## **Food Tech**

### **Common Food Poisoning Pathogens**

Pathogen	Sources	Symptoms
E coli	Raw meat, untreated milk and water.	Vomiting, blood in diarrhoea, kidney damage or failure.
Listeria	Soft cheese, pate, unpasteurised milk, under cooked meat.	Mild flu, meningitis and pneumonia.
Clostridium perfringens	Dirt from soil containing an imal faeces.	Diarrhoea, stomach cramps.
Salmonella	Raw meat, eggs, seafood, dairy products.	Diarrhoea, vomiting, fever.
Bacillus cereus	Cooked rice, pasta, cereal foods.	Na usea, vomiting, di a rrhoea.
Staphylococcus Aureus	Anything touched by hand, dairy products.	Na usea, vomiting, di a rrhoea.

### **Common Food Allergies**



A food allergy is when the body's immune system reacts unusually to specific foods. Although allergic reactions are often mild, they can be very serious.

A food intolerance is difficulty digesting certain foods and having an unpleasant physical reaction to them. These include coeliac disease (allergic to gluten) and lactose intolerance (allergic to a type of sugar mainly found in milk and dairy).

### **Cooking Processes**

Radiation Heat from an oven or grill.

Denaturation When the protein in cheese unravels (melting).

> <u>Gelatinisation</u> When starch granules swell.

<u>Mis-en-place</u> A French word to describe preparing Ingredients and getting everything ready for cooking.

<u>Convection</u> The scientific process that occurs when liquids boil in a pan.

<u>Stock</u> The juice from cooked meats, fish, and vegetables.

Enzymic Browning A reaction that occurs in some fruit and vegetables when left to react with air.

<u>Gluten</u> The protein particles contained in flour.

<u>Shortening</u> Rubbing flour and fat together to make a crumbly mixture.

Dextrinisation A chemical process that turns food brown/black when cooking.



## **Resistant Materials**



### **Timbers**

Timber comes from trees. Trees have to grow to full maturity (between 25 and 100 years) before they can be cut down for wood.

Timber is grouped into three categories; hardwood, softwood and manufactured boards.

### **Hardwoods**

Hardwoods come from deciduous trees, which have large flat leaves that fall in the autumn.

Hardwoods take longer to grow, are not easily sourced and are expensive to buy.

A tree has a ring for every year it grows, the darker part of the ring is strong. Hardwoods have closely packed rings because they grow slower. This makes them hard.

Ash, Beech, Mahogany, Oak and Balsa are examples of hardwoods.

### Softwoods

Softwoods come from coniferous trees. These often have pines or needles, and they stay evergreen all year round they do not lose leaves in the autumn. They are faster growing than hardwoods, making them cheaper to buy, and are considered a sustainable material.

A tree has a ring for every year it grows, the darker part of the ring is strong. Softwoods have big growth gaps between the rings making them softer.

Larch, Pine and Spruce are examples of softwoods.

### Manufactured boards

Manufactured boards are usually made from timber waste and adhesive.

To make them more aesthetically pleasing they are often veneered (a thin layer of wood, applied to give a nice surface). They are cheap to buy.

Medium-density fibreboard (MDF), Plywood and Chipboard are examples of manufactured boards.



We use ACCESS FM to help us write a specification - a list of requirements for a design - and to help us **analyse and describe** an already existing product.



is for Size

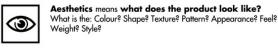
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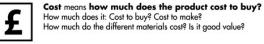
is for Safety

is for Function

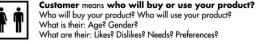












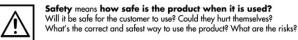


Environmentally friendly? Bad for the environment? 6R's of Design: Recycle / Reuse / Repair / Rethink / Reduce / Refuse

Size means how big or small is the product? What is the size of the product in millimeters (mm)? Is this the same size as similar products? Is it comfortable to use? Does it fit? Would it be improved if it was bigger or smaller?

Environment means will the product affect the environment?

Is the product: Recyclable? Reuseable? Repairable? Sustainable?



Function means how does the product work? ¢Ż What is the products job and role? What is it needed for? How well does it work? How could it be improved? Why is it used this way?



Material means what is the product made out of? What materials is the product made from? Why were these materials used? Would a different material be better? How was the product made? What manufacturing techniques were used?

### **Key Vocabulary**

### ACCESS FM

ACCESS FM is a method used in Design and Technology to effectively a nalyse a product.

### **Design Brief**

A paragraph outlining what you intend to design, using as much detail as possible.

### **Design Specification**

A specification is a list of bullet points that tells the designer exactly what the product has to do and what the requirements are. You can use ACCESS FM to help you write it. This needs to be very detailed...

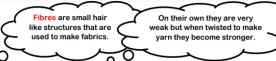
### **Product analysis**

Product analysis can take different forms but in general it means asking questions about a product and forming answers. It can mean experts analysing a product or members of the general public or potential customers/groups of people. Product analysis can take place at almost any stage of the design process.

### **Sustainability**

Causing little or no damage to the environment and therefore, able to continue for a long time.





## TYPES OF MATERIAL °

There are two main groups of fibres Natural and Manmade, these are also divided into sections.

#### Natural Polymers/Fibres:

These are from animals or plants and are all **biodegradable** (rot away) and are **sustainable** as they will grow again so are environmentally friendly if they are produced **organically**.

Plant	Cotton	Flax (linen)	Hemp	Jute	Bamboo	Soya
Animal	Wool (sheep)	Mohair (goat)	Cashmere	Angora (rabbit)	Alpaca	Llama
Insect	Silk (worm)					



Cotton is produced from plants. To be totally environmentally friendly plant fibres must be produced **organically**. Most cotton is produced using pesticides which as well as killing the insects or diseases is also bad for the environment and makes the workers ill.

#### Manmade (Manufactured) Polymers/Fibres:

Synthetic: These are made from chemicals which come from oil or coal. These fibres are not environmentally friendly.

Regenerated fibres: These are made from a combination of chemicals and

cellulose (tree products).

Synthetic	Acrylic	Polyester	Nylon	Lycra	Elastane	Polypropylene
Regenerated	Viscose	Rayon	Acetate	Lyocell (Tencel)		
Smart Fibres Materials that's change when exposed to change in temperature, pressure or light.						

Cotton (natural, plant based fibre) Properties/Characteristics:				
1 Absorbent	2 Soft	3 Cool	④ Good resistance to heat	
(5) Fine	6 Strong	Highly flammable	8 Poor elasticity	
Used in everyday clothing items, coffee filters, fishing nets and book binding.				

## Wool (natural, plant based fibre) Properties/Characteristics: ① Warm ② Very absorbent ③ Medium strength ④ Good elasticity ⑤ Does not burn easily ⑥ Susceptible to being attacked by pests, such as clothes moths. Used in everyday clothing, blankets, horse rugs, carpets and upholstery.

<b>ik</b> (natural, animal operties/Character				St. Info 4
① Very absorbent	② Soft	③ Fine	④ Lustrous	Set 5 a
5 Very good resilience	6 Good elasticity	⑦ Can be damaged b	y deodorants and po	erfumes

Used in luxury clothing and bedding, rugs and wall hangings.

#### Polyester (synthetic fibre) Prop<u>erties/Characteristics:</u>

rop	roperues/characterisucs.					
-	1 Extremely	② Flame	③ Thermoplastic	④ Poor absorbency		
	strong	resistant				
	(5) Good elasticity and resilience	6 Damaged by acids	⑦ Resistant to solvents and	I alkalis		
Jsec	in ropes, belts, u	pholstery paddi	ng and low-cost clothing.			

Elastane (synthetic fibre)			
Properties/Characteristics:			
1 Lightweight	2 Fairly strong 3 Very poor	4 Medium-to-coarse filaments	
	absorption		
5 Extremely	6 When stretched it returns to original	⑦ Not damaged by sunlight or	
elastic	shape	sea water	
Used in sportswear, swimwear, tights.			

Feited Fabric Properties/Char		ric)		
① Does not fray	② Warm	③ Matted together using moisture, heat and pressure		
④ Little strength	(5) No elasticity	(6) Made from wool fibres/ animal hair	Ser.	
An expensive fa	bric. Used in ha	ts, slippers, handicrafts and embellishing.		

Polycotton (blended fibre) Properties/Characteristics:			
(1) Non-iron / easy to iron	2 Moisture absorbing	3 Polyester and cotton blen	d
④ Strong	5 Durable	2.0	Ja
Used in bedding and clothing.			Car