Year 5 - Term 5

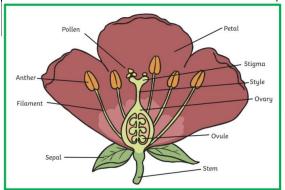
Plants and habitats and climate change

How does it grow?

Science – Circle of life

Key questions:

What is pollination? What is fertilisation? Can you label parts of a plant? How do plants reproduce?

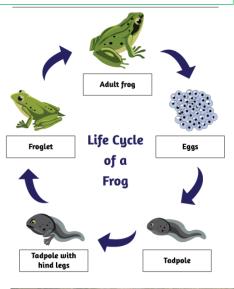




How do animals reproduce? What is metamorphosis? What does endangered mean? Should animals be kept in zoos?

Pollen

- · Male parts of flowers produce pollen.
- · Female parts produce ova (eggs).
- To make a new plant, one pollen has to join up with one ova.
- The pollen has to get from one flower to another flower.
- Some flowers use insects to do this.
 Some use the wind to carry the pollen instead.





Glossary			
asexual reproduction	to reproduce without a male		
bulb	a part of a plant that stores food underground, can grow a new shoot		
external fertilisation	when sperm and eggs join outside the body		
fertilisation	when an egg and pollen (or sperm) join together		
gestation	when a baby animal develops inside its mother		
internal fertilisation	when sperm and egg join inside the body		
larva	the young form of some animals, which looks very different from its parents. It undergoes a dramatic change to become an adult and loses its young features or gains new ones		
metamorphosis	a dramatic change in the life cycle of an animal in which it ends up looking totally different		
pollination	when pollen from one plant is transferred to the ovary of another		
sexual reproduction	reproduce with both a male and female		

Jane Goodall is a British ethologist and conservationist, famous for her world expertise on chimpanzees, having studied them in the wild for over 60 years. Her ground-breaking research provided a unique insight into the life of these creatures - now known to be our nearest living relatives.



Geography – Climate Change

Key objective

Understand the difference between global warming and climate change, evaluate some impacts of climate change already apparent in the world and consider national and individual actions to reduce its long term effects

Important things I will know, understand and be able to do

The difference between weather and climate
The climate of polar, temperate and tropical
regions

The greenhouse effect and global warming How climate change is different from global warming

Some of the changes being caused by climate change in Gambia and their impact on people Some of the changes being caused by climate change in the state of Victoria in Australia and their impact on people

Some of the changes being caused by climate change in coastal areas of the United Kingdom and their impact on people

Some of the changes being caused by climate change in Greenland and their impact on people

Countries around the world where weather patterns have been affected by climate change How countries around the world are acting to reduce global warming

How individuals, families and communities like schools are taking action to reduce global warming

What the UK government is doing on a national level to reduce carbon emissions

Important geographical techniques I will use		
Statistical representation	Drawing and interpreting: line graphs, multiple line graphs, bar graphs and climate graphs	
Mapwork	Interpreting OS 1:50,000 Landranger maps using the key, eight points of the compass and four and six figure grid references Interpreting a range of atlas thematic maps e.g., changing weather patterns, ice sheet distribution and thickness, global temperature differences and countries most impacted by evidence of climate change	
Imagery	Terrestrial, aerial and satellite photographs (orientating with OS maps and GIS Google Earth Pro	

Important vocabulary I will learn

Landscape	everything that can be seen when looking at a particular place	
Renewable energy from a source such as wind that is never used up Conservation the protection of environments to prevent their loss or destruction		
		Estuary
Hazard something natural or human that is a risk or a danger		
Drought	a very long period of time without rainfall	
Desertification the process by which fertile land becomes desert, typically as a result of drought, deforest		
	poor farming	
Country	a nation with its own government and territory	
Ice sheet	a thick layer of ice covering a large area of land or sea	
Raw material	things found in nature that are used to make things for people	
Heatwave	a long period of unusually hot weather	
Mitigation	reducing the serious effects of something	
Atmosphere	the layer of gas that surrounds the Earth, often called air	
Coast	the area where the land meets the sea or ocean	
Emission	the release of something such as a gas	

Important hazards I will analyse







Desertification

Important Ordnance Survey
maps I will interpret



Starcross, Exe Estuary

Key questions:

What is global warming? What is a greenhouse gas? How does climate change impact people in different places in the world?

PSHE



Knowledge Organiser

Year 5 - Rights and Respect

Key questions

Rights and Responsibilities

Are rights and responsibilities the same?

Do rights and responsibilities change as someone gets older? How?

What rights and responsibilities do we have to the community and the

Rights and Responsibilities Relating to My Health

environment?

How is someone responsible for their own health?

Why do some people find it hard to stick to their responsibilities for keeping healthy?

What might help someone restart being responsible for keeping healthy?

Decisions About Lending, Borrowing and Spending

What things are needed by people in in the community?

What services do local councils provide?

Do councils choose how much money they give to the services they provide? How might a council's spending choices affect different groups in the community?

Key vocabulary

rights responsibility debit
costs borrow credit
health community group
public services loan council
exercise vote duties
sustainable elections

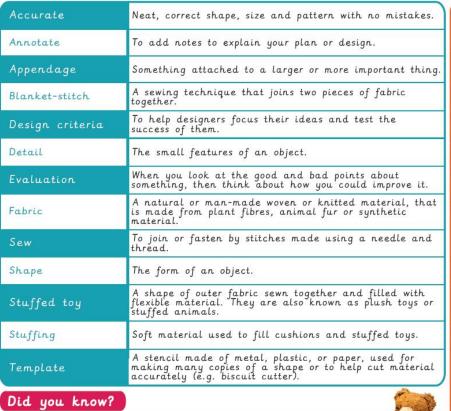
I can ...

I can give examples of some of the rights and related responsibilities I have as I grow older, at home and school. I can also give real examples of each that relate to me.

I can give a few different examples of things that I am responsible for to keep myself healthy.

I can explain that local councils have to make decisions about how money is spent on things we need in the community. I can also give an examples of some of the things they have to allocate money for.

DT – Textiles: Stuffed Toys



The teddy bear was invented in honour of Theodore Roosevelt, the 26th US President, in November, 1902.



Be very careful when threading the needle through the fabric, watch your fingers and ask an adult if you're unsure.



How do you tie a knot?

How do you sew a running stitch?

How do you sew a blanket stitch?

What is applique?

How can you attach fabric together?

Does your toy fit the criteria?

What are your sewing skills?

Criteria, shape, template, sew, knot, thread, stitch, running stitch, blanket stitch, cross-stitch, stuffing, applique, appendages, detail, evaluate.

Computing – Vector Drawing



COMPUTING: CREATING MEDIA- Vector Drawing

KNOWLEDGE ORGANISER



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Overview

Vector Drawing

- -Vector drawings are computer graphic images that are made using 2-D shapes.
- -The drawings are connected by lines and curves to form polygons and other shapes, forming a complete picture.
- -There are lots of different apps and programs that can help us to complete vector drawings, including Google Drawings and Adobe Illustrator.
- Many techniques, e.g. zooming, rotating, resizing & duplicating, can help to create accurate images.

More Complex Vector Drawings

Google Drawings has been used in these examples, but lots of other vector drawing software uses the same tools and functions.



When dealing with small and intricate objects, it is important to use the zoom tool. Zooming in allows you to work with more precision. Zooming out allows a wider view.



The line tools can be used to help you change the colour and weight (thickness) of the line, and to make dotted lines.

Y5



Coloured lines can be drawn, and colours can be used to fill shapes.



Gradient colours can be used to colour the same object in different colours.



The <u>Alignment guides</u>
pop up as you move
objects around, and
help you to align and
size objects.

Remember to that vector drawing is all about layering. By gradually adding layers of basic shapes, you build up something far more complex.



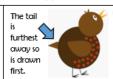


Creating Simple Vector Drawings

Vector drawings use lines and shapes to create bigger and more detailed images.



Plan your drawing by thinking about what shapes it is made up of. Each shape is called an ^{Circles} object.



When vector drawing, the <u>shapes overlap</u>, so start with the objects that are the <u>furthest</u> <u>away</u>.



Copy and paste has been used to make the red spots the same size.

You can save a lot of time and effort doing the same thing over and over by duplicating shapes. This is done most easily by copying the object that you want to duplicate (hold ctrl + c) and pasting (hold ctrl + v) a new one.



You can <u>enlarge/reduce</u> an object by clicking on it and dragging the handles to the desired size.



You can rotate an object by dragging the circular handle at the top.

Advanced Tips



Grouping: 1. Select all images. 2. Rightclick 3. Choose 'group.' All of the objects can now be moved and changed at the same time.



Advanced Layering: Right-click on objects and use the 'send to back' and 'bring to front' tools (in 'order') to ensure that your layering is in the correct order.



<u>Backgrounds:</u> You can create backgrounds by uploading images (using this icon). Remember to 'send to back' after it has been inserted.

Selecting Multiple Objects

This allows you to perform tasks with the whole drawing, rather than individual objects:

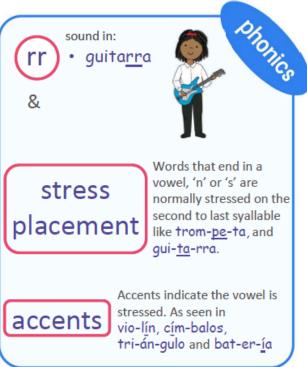
- -Click, drag and drop a box around all of the objects in an image. This allows you to select all of the objects.
- -When you perform an action (e.g. copy and paste) it will now apply to all.





Spanish - Instruments

Los instrumentos







What I will learn:

Objective 1: I will learn 5 instruments in Spanish with their correct determiner.
Objective 2: I will learn 5 more instruments in Spanish with their correct determiner.
Objective 3: I will revise all 10 instrument nouns with their determiners in Spanish and start to attempt the spellings.
Objective 4: I will explore and understand better the role of the definite article/determiner in Spanish.
Objective 5: I will learn how to use the 1st person conjugated verb 'toco' (I play) in Spanish

RE - Sikhism



Enquiry: What is the best way for a Sikh to show commitment to

God?

Theme: Prayer and Worship.

Core Knowledge		Link to other aspects of belief	Personal connection / resonance
Sikhs are proud to visibly show commitment to their faith – this can be done in many		 Treatment of the Guru Granth 	How do I show commitment to
ways including		Sahib in the Gurdwara	people I care about?
Joining the Khalsa through the Amrit Ceremony		 Worship in the Gurdwara 	How do I show commitment to
Wearing the 5 K's		 Langar 	things that are important to me?
Worshipping in the Gurdwara		 Sewa (selfless service) / Vand 	
Reading and respecting the Guru Granth Sahib		Chakna (sharing with others)	
Serving the community through the Langar meal and other areas of Sewa (service)			
Key Terms and definitions	History/Context	Impact on believer/daily life	Spiral curriculum link
Waheguru: God	The tenth Guru, Guru Gobind Singh said	 The symbol meaning "Ik Onkar" is seen 	This links to the Khalsa and Sikh
Mool Mantar: This is the opening text of	that there would be no other living Gurus	in Gurdwaras and Sikh homes.	beliefs around sharing which show
the Guru <u>Granth</u> Sahib – ' <u>ik onkar</u> ' – There	after him so Sikhs should look to their holy	• This symbolises the oneness of God and	the importance of commitment.
is only one God	scriptures for guidance instead. The Guru	the oneness of humanity (the belief that	
The Guru Granth Sahib: Holy book	Granth Sahib is this scripture, and is	everyone is equal). Treating people	[]
Chauri: fan used to show respect to the	treated as the living Guru of the Sikhs.	equally is vital to Sikhs	
Guru Granth Sahib			['
Granthi: person who reads the Guru	Mool Mantar		
Granth Sahib	Sikhs believe that Waheguru's (God) nature		[]
	is expressed in the Mool Mantar. The first		
	line of the Mool Mantar is "Ik Onkar",		
	which means "There is only one God".		
Home learning ideas/questions: How do we show commitment to people we sere shout? What can we share? How does shoring make us feel?			
How do we show commitment to people we care about? What can we share? How does sharing make us feel?			

PE - OAA



Knowledge Organiser OAA Year 5

About this Unit

OAA stands for Outdoor Adventurous Activities. These activities can be land based e.g. rock climbing, abseiling, orienteering, they can be water based e.g. kayaking, surfing, sailing or air based e.g. parachuting or paragliding. All of these activities require problem solving, collaboration, decision making and teamwork skills. In this unit, you will learn these skills then put them into practise in orienteering activities.

To be able to successfully take part in orienteering activities, you will need to have good navigation skills. Being able to read a map and use a compass are important navigation skills which will help you to go on amazing adventures.

When you know how to navigate, you're less likely to get lost, it will give you freedom to visit new places and learn about the world.

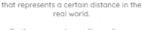
Compass:

A compass is a small device with a needle that always points to magnetic north and helps you to figure out the direction wherever you are!

Compasses work because the Earth has a magnetic field, like a big invisible magnet that pulls one end of the compass needle toward the north. This means the other end of the needle points south!

The four main directions are north, south, east, and west, There are also directions in between the main ones. For example, northeast is between north and east, and southwest is between south and west.

To use a compass, hold it flat in your hand or on a surface. Make sure the needle can move freely. Then, slowly turn yourself until the needle lines up with the "N" for north on the compass. Once you've found north, you'll know all the other directions as well!



On the map scale, you'll usually see numbers and markings. The numbers show the distances in different units, like kilometres, miles, or metres. The markings help you measure the

distance accurately.

Scale:

A map scale is like a special ruler that

helps you understand the real distances

between places on the map. A map

scale is a small line or bar on the map

Let's say the map scale shows that one centimetre on the map represents 10 kilometres in real life. If you want to know how far a path is from one place to another, you can use a ruler to neasure the distance on the map. Then, use the scale to figure out the realworld distance.



1cm = 1km

cardinal points; the four main compass directions; north, south, east, and west

compromise: come to an agreement concise: give information clearly critical thinking: evaluate to improve landmark: a location on a map

navigation: plan and / or follow a route neaotiate: to garee on shared terms

orientate: to turn a map so that it always faces the same way as the ground it

represents

solve: to find an answer

strategy: a plan of action to complete a set task or challenge

verbal: communication with voice visual: communication with eyes

Problem solving:

There may be more than one way to solve a challenge. Using trial and error may help to guide you to the best solution.

Navigational skills:

Using a key helps uou to identifu objects and locations on a map.

Communication:

Being descriptive but concise when giving instructions e.g. 'two steps to the left' will help you to communicate clearlu.

Reflection:

Reflecting on when you are successful at solvina challenges will help you to alter your methods to help you improve.

Movement Skills

Ladder

Knowledae

- balance
- co-ordination
- run at speed
- run over distance

This unit will also help you to develop other important skills.

Social negotiation, communication, leadership, work safely

Emotional empathy, confidence, resilience

problem solving, reflect, critical thinking, select and apply, comprehension

Rules

Abiding by rules will help everyone to play fairly and solve challenges.

Healthu **Participation**



- · Listen carefully to safety rules for each challenge considering the space, equipment and other people.
- Work safelu around others.



Find more games that develop these skills in the Home Learning Active Families tab on www.getset4education.co.uk

Blindfold Obstacle Course



What you need: A blindfold which could be a tea towel or jumper. Two or more people.

- · Create an obstacle course using whatever you can find e.g. cushions, chairs, clothes
- · One person begins blindfolded and the other person guides them around the obstacle course.





www.getset4education.co.uk





How will this unit help your body?

balance. co-ordination, speed, stamina

PE - Cricket



Knowledge Organiser Cricket Year 5

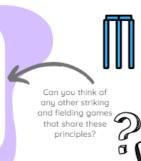
About this Unit

Cricket is a popular team sport played on a large oval field with a bat and ball. It involves two teams, one batting and one fielding. taking turns to play. The batting team aims to score runs by hitting the ball and running between two sets of wickets, while the fielding team tries to get the batsmen out by various means.

A match can last several hours or even days, depending on the format being plaued. Cricket is known for its use of tactics, thrilling moments, and passionate fans around the world.

Striking and Fielding Games

key Principles		
attacking	defending	
score points	limit points	
placement of an object	deny space	
avoid getting out	get opponents out	



Ladder

Knowledge

Rules

Tactics

Healthu

Participation

Striking:

Stance is important to allow you to be balanced as you hit.

Fielding:

Backing up a fielder as a ball is being thrown will help to increase the chances of fielding successfully.

Throwing and catching:

Look at where the batter is before deciding where to throw. Use a close catch if the ball is coming straight and a deep catch if the ball is coming in from high.

Movement Skills

- · deep and close catchina
- underarm and overarm throwing overarm bowling
- · long and short barrier
- · batting

This unit will also help you to develop other important skills.

Social collaboration, communication, respect

Emotional honesty, perseverance, determination

observation, provide feedback, select and apply skills, tactics,

BOWLING

- · Balls can be bowled using underarm (only one bounce allowed or deemed a no-ball), or overarm bowling action (two bounces allowed).
- Overarm bowling with a straight arm is preferred.

1 run for each changeover.

OUT

- · Bowled out: bowler bowls a ball that hits
- Caught out: fielder catches a batted ball . Run out: fielder hits the wickets with the
- ball when the batter isn't there
- · Stumped out: fielder stumps the wicket when the batter isn't there
- 4 runs if they hit it past the boundary after a bounce.

· Look to play in free space.

- Run when it is agreed by both batters (batter 'on strike' is usually best to decide)
- Choose to play boundary shots (4 and 6), when appropriate.
- · Stay at the wicket if the ball is too close to a fielder.

· 6 runs if they hit it past the boundary - no bounce.

- Organise yourselves in fielding positions e.g. spread out and stand inside the semi circle to stop 4's and 6's. All stand on the batter's side and ao for 'outs'
- Look to backup throws towards wickets.
- Throw between your fielding team to send the ball to the wickets.

Keu Vocabularu



wickets

backing up: fielder moves to support another fielder in case they misfield close catch: having both hands relatively close to the body to catch, little fingers together

compete: play against someone else

decide: make a choice

deep catch: catch a ball from height, thumbs together in front of head

grip: how you gold the ball or bat

long barrier: a fielding action used to stop a ball coming at speed

momentum: the direction created by weight and power

run out: fielder hits the wickets with the ball when the batter isn't there short barrier: creating a barrier with hands in front of feet to stop a ball

travelling at slow speed

situation: circumstances that create the environment

stance: the body position taken

tactic: a plan



Always keep a safe distance between yourself and a batter. Ensure you handle the bat in the way suggested by the teacher at all times.

If you enjoy this unit why not see if there is a cricket club in your local area.

Home Learning

Head to our voutube channel to

Find more games that develop these skills in the Home Learning Active Families tab on www.getset4education.co.uk





Balance, speed, strength, co-ordination, agility.