










Knowledge Organiser – Art ‘Changes’ Year 2













Key Knowledge and Skills	Key vocabulary	Cultural Heritage																
<div><p>To say what is seen in a portrait. To say how different artists have used colour and shape. To say how a piece of art makes you feel.</p></div> <div><p><u>PHOTOGRAPHIC ARTWORK</u></p><ul style="list-style-type: none">To create a piece of work in response to another artists' workHow to explain how colour, light and facial expressions change the mood of a photo.How to take a portrait photo of someone.How to change photographic images on a computer.</div> <div><p><u>DRAWING</u></p><div><ul style="list-style-type: none">How to use a sketchbook to experiment with charcoal.How to use charcoal like a pencil.</div><ul style="list-style-type: none">How to shade light and dark tones with charcoal.How to use charcoal without it getting too messy.</div>	<table><tr><td>portrait</td><td>a painting, drawing or photograph of a person, especially one showing the head, face and shoulders</td></tr><tr><td>shape</td><td>the outside edge of an object or person</td></tr><tr><td>facial expressions</td><td>the shape of the face, which shows different feelings</td></tr><tr><td>light in a photo</td><td>the way in which light and dark make a picture interesting</td></tr><tr><td>mood</td><td>what the feelings of a picture are e.g. sad, peaceful, angry</td></tr><tr><td>photographic</td><td>the picture taken by a camera images.</td></tr><tr><td>charcoal</td><td>a type of drawing material made by heating wood.</td></tr><tr><td>light and dark tones</td><td>all the shades between white and black.</td></tr></table> 	portrait	a painting, drawing or photograph of a person, especially one showing the head, face and shoulders	shape	the outside edge of an object or person	facial expressions	the shape of the face, which shows different feelings	light in a photo	the way in which light and dark make a picture interesting	mood	what the feelings of a picture are e.g. sad, peaceful, angry	photographic	the picture taken by a camera images .	charcoal	a type of drawing material made by heating wood.	light and dark tones	all the shades between white and black.	<div><p>Shahzia Shakander (b 1969) Pakastani born portrait artist</p></div> <div><p>Corey Barksdale (b 1972) mural wall artist</p></div>
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<p><u>Looking at trees</u></p> <ul style="list-style-type: none"> I know how different artists have created trees and can describe the colours they have used. I can observe how trees change through the seasons. I can describe the different ways  <p>I can create trees for example - using my fingers to print.</p> <ul style="list-style-type: none"> I can use different media, such as chalk and paint to create different textures to show different seasons.  <p>There are different grades of pencil.</p>  <ul style="list-style-type: none"> I can create different tones with my pencil. I can create patterns and line in my drawing. 	<p>artist</p>	<p>A person who creates art for their job</p>	<p><u>Trees of Pakistan</u></p>  <p><u>Trees of Romania</u></p>  <p><u>Trees of Somalia</u></p> 
	<p>create</p>	<p>To make</p>	
	<p>observe</p>	<p>To look very carefully</p>	
	<p>Finger printing</p>		
	<p>Art media</p> 	<p>The materials you use</p>	
	<p>texture</p>	<p>Making something look like it feels</p> 	

Article 31 Rest, play, culture, arts

Clay leaf sculptures

Press leaves into clay and make them into leaf sculptures.



**Different colour
names**

Knowledge Organiser – Year 2 Computing: We are Astronauts (2.1)

Key Knowledge

Unit 2.1: We are astronauts Programming on screen in ScratchJr

During this sequence of learning, pupils will learn how to program a sprite (such as a spaceship) to move around the screen.

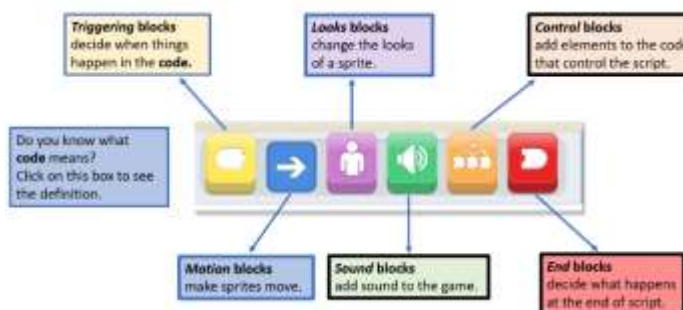
ScratchJr Spaceship Navigation Program Walkthrough

1. Launch the ScratchJr app.
2. Create a new project by tapping +.
3. Tap on the backdrops icon, select the space backdrop, then select the tick.
4. Tap and hold the cat sprite, then tap the cross to delete it. Then tap the + underneath.
5. Select the rocket sprite and tap the tick to add it.

Try this code out. See what happens

Key Vocabulary

Scratch	A simple, block-based programming language in which programs for characters are built by snapping together code blocks
Code	Instructions that can be understood by a computer
Sprite	A graphical character in a program that can be given instructions.
Debug	To correct mistakes in a program or algorithm.
Program	The sequence of instructions (or sometimes a set of rules) that can be followed by a computer.
Input	Data supplied to a computer, in this case, tapping on the screen of a tablet.
Output	Information produced by a computer – in this case, moving sprites on a screen, text and audio.
Repetition	A group of instructions to be repeated a number of times, or until a certain condition is met
Algorithm	A sequence of precise instructions or steps (sometimes a set of rules) to achieve an objective



Cultural Heritage

Markus Persson



Markus Person
A Swedish Born Game Designer.

Markus Alexej Persson, also known as Notch, is a Swedish video game programmer and designer. He is best known for creating the sandbox video game **Minecraft** and for founding the video game company Mojang in 2009.

Find out about the success Persson's found creating Minecraft.

Knowledge Organiser – History: Changes: People Y2

Key Knowledge

Family Tree



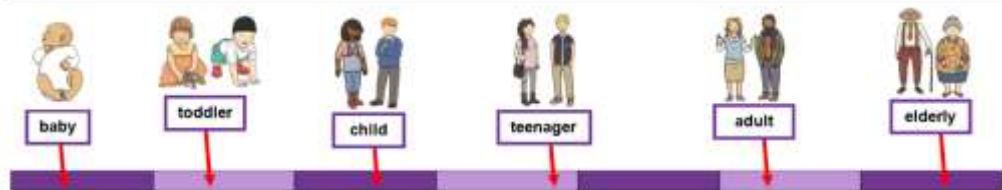
A family tree is a way of displaying the relationship between a number of people within a family. A family tree helps us to tell our family story and share information about our past.

Marco's Family Tree



A family tree helps us to sequence information about our family, from the oldest to the youngest. You can use photos, drawings or words to help share information about your family.

What is a timeline?	A graphical representation of a period of time which important events are marked on
What is an artefact?	An object made by a human that is of historical interest.
What is chronological order?	The arrangement of things following one after another in time.



Key Vocabulary

baby	A young child
toddler	A young child who is just beginning to walk
child	A young human being below the legal age of majority
teenager	A person aged between 13 to 19 years
adult	A person who is fully grown
elderly	A person who is old.
genealogy	A line of ancestors of a person or family
genealogist	A person who traces or studies lives of a family descent
ancestor	A person from whom one is descended and who lived several generations ago

sepia photograph

A sepia photograph is a photograph that is brown in colour.



This is a sepia photograph of Bordesley Green Primary School

Cultural Heritage

Family Names

Different cultures and languages give family members different names.



England: Mum, Dad, Grandma (nanny), Grandad, Aunty and Uncle ~ these terms are used for both sides of the family









Romanian: *Mamma* = mum, *Tata* = dad, *Bunica* = grandma, *Bunicu* = grandad, *Matusa* = aunt, *Unchi* = uncle ~ these terms are used for both sides of the family

Pakistan: *Ammi / Amma* = mum, *Abbu / Abba* = dad. Dad's side of the family: *Dadi* = grandmother, *Dada* = grandad, *Taayaa* = dad's older brother (uncle), *Taayamma / Thai* = dad's older brother's wife (aunty). *Chaacha* = dad's younger brother = uncle, *Chaachi* = dad's younger brother's wife = aunty. *Phuppu* = dad's sister = aunty, *Phuppaa* = dad's sister's husband = uncle

Mum's side of the family: *Nani* ~ grandmother, *Nana* ~ grandad, *Mamu* = mum's brother = uncle, *Mamu* ~ mum's brother's wife = aunt. *Khala or Masi* ~ mum's sister = aunt, *Khalu* ~ mum's sister's husband = uncle

Somalian: nan and grandad terminology is used on both sides of the family. Mum's side of the family: *Abti* = uncle, *Habayer* = aunty (eg Habayer + name Habayer Mana) Dad's side of the family: *Abeero* = uncle, *Edo* = aunty.

P.E Knowledge Organiser – Groovy Gymnastics – Year 2

Key Knowledge		Key vocabulary	Cultural Heritage
<div>Pike</div> 	<div><u>Success Criteria</u></div> <ol style="list-style-type: none"> Angle at hips is 90 degrees or less. Arms and legs are straight. Try to get your back as straight as you can. 	<div>balance</div> <div>Being able to stay upright without falling over.</div>	 
<div>Star</div> 	<div><u>Success Criteria</u></div> <ol style="list-style-type: none"> Your body is flat and wide. Arms and legs are straight, toes and fingers pointed. The angle at the hips must remain 	<div>tension</div> <div>Keeping your body, arms and legs stretched out and tight.</div>	
<div>Straddle</div> 	<div><u>Success Criteria</u></div> <ol style="list-style-type: none"> Legs out wide and straight. Back is straight. The angle at the hips is 90 	<div>point (of balance)</div> <div>The part of your body that you're balancing on.</div>	<div>Simona Amânar (born 7 October 1979) is a Romanian former artistic gymnast. She is a seven-time Olympic and ten-time World Championship medalist. Amânar helped Romania win four consecutive world team titles (1994–1999), as well as the 2000 Olympic team title.</div>  
<div>Straight</div> 	<div><u>Success Criteria</u></div> <ol style="list-style-type: none"> Your body is taut and stretched. Arms and legs are straight. 	<div>shapes</div> <div>Creating pikes, stars etc. with your body.</div>	
		<div>travelling</div> <div>Moving, this should be done with tension and make sure it flows.</div>	<div>Louis Antoine Smith, MBE (born 22 April 1989) is a retired British artistic gymnast. He received a bronze medal and two silver medals on the pommel horse at the 2008 Beijing Olympics, 2012 London Olympics and the 2016 Rio Olympics.</div>
		<div>flow</div> <div>Move from a balance/travel naturally, without stopping.</div>	
		<div>apparatus</div> <div>Objects that you use to travel over or balance on.</div>	
		<div>sequence</div> <div>A number of different balances and movements put together to perform.</div>	

Tuck



Success Criteria

- Your body is small and rounded.
- Knees are close to the chest and feet tucked in using your arms.
- Hands on shins.

These are all the different shapes that we will use to create our sequence. We did basics sequences in Year 1 but this year we will add balances!

What **balances** can you think of?



Remember, when doing a **sequence**, it is important for the moves to flow smoothly into one another. Hold the balance for at least three seconds before moving again.

What rolls can you remember from Year 1?



P.E Knowledge Organiser – Multi-skills – Year 2

Key Knowledge

Balancing

As you know from Year 1, balancing is extremely important in sports, whether it is invasion games or gymnastics. In this topic you will be practising balances with your partner. How many different counter tension or counter balances can you think of?



- Drive your arms hard as you run
- Keep your knees up high
- Keep on the balls of your feet
- This uses your heart and most major muscles



Movement and travelling

In Year 1 we learned about moving at speed and accuracy. In year 2 we are starting to focus on how we can move and travel in different ways. We may do forward rolls in a gymnastics routine or spinning and twisting to get away from an opponent.

Underarm Throw

You should throw your hand using your dominate hand, the one that you write with. You should swing your arm backwards, and release the ball as you bring your arm forwards. If you release the ball too late it will go up in the air and not forwards. After passing, your arm should be pointing at your partner's chest and your throwing hand's palm facing the sky or ceiling.



Key vocabulary

agility	How quickly you can move and change direction.
balance	To be able to stay upright or in one position without falling over.
coordination	Be able to use two or more body parts together.
timing	Moving yourself, or a ball at the right moment.
aim	To point or direct something to a target.
target	Something that you are trying to reach or hit. Eg. throwing a ball at a target
rotate	To turn around a point
spin	To turn quickly around a point to evade (sometimes used in dance or gymnastics as well).

Cultural Heritage



Mithali Dorai Raj (born 3 December 1982) is an Indian cricketer and the Test and ODI captain of women's national cricket team. She is a right-handed opening batswoman and occasional right-arm leg break bowler. Raj is the highest run-scorer in women's international cricket.



Yusra Mardini

The then 18 year-old swimmer took the 2016 Olympics by storm, competing for the first ever refugee team in Brazil. The brave teen fled Syria during the peak of the civil war along with millions of migrants - crossing the Atlantic and seeking refuge in Europe.

Knowledge Organiser – Year 2 – 1.1 HW Think Positive

Key Knowledge		Key Vocabulary		Cultural Heritage																						
<div><div><div>1. Think Happy, Feel Happy</div><div><div>Being positive means looking for the good in things, rather than the bad.</div><div>A positive thinker focuses on making the best of a situation, rather than complaining about it.</div></div><div>There are lots of ways we can help ourselves to feel good.</div><div><div>play outside</div><div>spend time with family</div><div>do things we enjoy</div><div>eat a balanced diet</div><div>get enough sleep</div></div><div>2. It's Your Choice</div><div>Every day we get to make some choices such as what to have for breakfast or what to wear.</div><div><div>In life, we can't always choose what happens, but we can choose how we respond.</div><div>If we choose to respond in a positive way, we will feel better. If we choose to respond in a negative way, we will feel bad.</div></div><div>Good choices include:</div><div><div>✓ Getting enough sleep</div><div>✓ Eating a balanced diet</div><div>✓ Eating sweet things only as occasional treats</div><div>✓ Getting out and about in the fresh air helps</div></div><div>3. Go Getters</div><div>What is resilience?</div><div><div>Not being afraid to fail</div><div>Trying again and again.</div><div>Accepting when things go wrong.</div><div>Learning from mistakes</div><div>Being prepared to give something a go.</div><div>Not giving up!</div></div></div><div><div>When people persevere, it means they stick at it and try again.</div><div>If you persevere and show resilience, you'll be able to get better at something and make steps towards achieving your goal.</div><div>5. Be Thankful</div><div>Being grateful means that you appreciate things you have in your life, including the people you have around you. If you appreciate things, it means you are pleased when you think of all the things you have and you realise how lucky you are.</div><div>6. Be Mindful</div><div><div>Being mindful means being aware of something or really focusing on something. It means concentrating on our own body and how we feel in the present.</div><div>Sometimes our minds become full of unhelpful thoughts, like worries or fears. To keep our mind healthy, it is good to give it a rest from worrying about things. Concentrating on a calm, relaxing activity gives your mind a rest and can make you feel happier.</div></div><div>How can we be mindful?</div></div></div>		<table><tr><th>Word:</th><th>Meaning:</th></tr><tr><td>appreciate</td><td>to be grateful for or to</td></tr><tr><td>goals</td><td>to aim for something you want</td></tr><tr><td>grateful</td><td>feeling or showing appreciation for something done or received</td></tr><tr><td>mental health</td><td>a person's emotional well being; mental health affects how we think, feel and act</td></tr><tr><td>mindful</td><td>being aware of something</td></tr><tr><td>negative feelings</td><td>an emotion which will cause you to be sad e.g loneliness or feeling cross</td></tr><tr><td>perseverance</td><td>not giving up</td></tr><tr><td>personal achievements</td><td>something that will give you a sense of pride</td></tr><tr><td>positive feelings</td><td>a good emotion e.g happy, joy, love, hope</td></tr><tr><td>resilience</td><td>to recover quickly from any problems or difficulties</td></tr></table>		Word:	Meaning:	appreciate	to be grateful for or to	goals	to aim for something you want	grateful	feeling or showing appreciation for something done or received	mental health	a person's emotional well being; mental health affects how we think, feel and act	mindful	being aware of something	negative feelings	an emotion which will cause you to be sad e.g loneliness or feeling cross	perseverance	not giving up	personal achievements	something that will give you a sense of pride	positive feelings	a good emotion e.g happy, joy, love, hope	resilience	to recover quickly from any problems or difficulties	<div><div>How and when do you show gratefulness for the people in your life/God?</div><div><div><div>Feed & Water Pets</div><div>Make Bed</div><div>Play Nicely</div><div>Clear Table</div><div>Pick up toys</div><div>Put Away Clean Clothes</div><div>Pack Backpack</div><div>Vacuum a Room</div><div>Dust one Room</div></div><div><div><div><div><div></div><div>Thank You</div></div><div><div></div><div></div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div></div></div></div>
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12. Everyone has the right to be listened to and taken seriously.

4. Let It Out

Walk away from the thing making you angry.

Talk to a friend about what is making you angry.

Stretch up and relax your muscles.

Take some deep breaths of fresh air.

Tell yourself, 'I am in control of my anger.'

Count backwards from 20.



Coping With Feeling Cross

Think about the last time you were worried and how you got through it.

Tell someone how you feel and what is worrying you.

Write the worry down and put it away in a safe place.

Tell the worry to go away and that you are in control.



Coping With Feeling Worried

Focus on the things you can hear around you.

Go for a quiet, peaceful walk.

Sit quietly and concentrate on your breathing.

Focus carefully on the taste and feel of food you are eating.



Look closely at something, such as a leaf or flower and notice all the details.

Listen to some gentle, relaxing music with your eyes closed.

Think of an activity that you enjoy to keep you busy for a while.

Find someone else who looks lonely and suggest an activity you can do together.

Tell a friend or a trusted grown-up that you are feeling lonely.

Think about three things that you are grateful for.



Coping With Feeling Lonely

12. Everyone has the right to be listened to and taken seriously.

Talk to a person you trust about what is making you sad.

Think of something that makes you feel happy.












Play with a pet – they can cheer you up.

Cry – it is OK to let out your sadness.













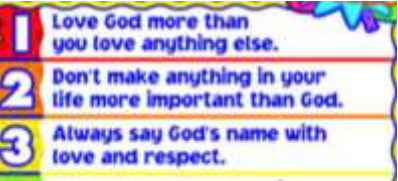
Cuddle your favourite soft toy.



Coping With Feeling Sad

Key Knowledge		Key Vocabulary		Cultural Heritage																								
<div>Unit 1 - Living by Rules</div> <div>Religious Traditions: Islam and Christianity</div> <div>1. Could we live without rules?</div> <div>We have rules in our home, school, town or city and country.</div> <div>We need rules in all parts of our society which keep people safe and make the group work well together.</div> <div>It's not usually fair to have different rules for different people.</div> <div>2. What rules has God made? (Islam)</div> <div>Throughout his life, Prophet Mohammad (pbuh) told his followers that Allah (swt) loves those people who show their love to others through kindness and concern.</div> <div>Prophet Muhammad (pbuh) taught Muslims to</div> <div><ul style="list-style-type: none">visit their friends, members of their family their neighbours.share with others e.g. share foodhelp to protect others by picking up litter or removing something from their path that might hurt themtake care of animals</div> <div>3. What rules has God made? (Islam)</div> <div>The five pillars of Islam help each Muslim to form a personal relationship with Allah (swt) and understand the values of Islam; equality, justice and human dignity.</div> <div><div><div><div>The Shahadah</div></div><div><div>Salah</div></div><div><div>Zakat</div></div><div><div>Sawm</div></div><div><div>Hajj</div></div></div><div>The second pillar of Islam is Salah (the five daily prayers). Muslims can perform Salah at home, at work, at school or in the Mosque.</div><div>There are seven rules of movement in each unit of prayer.</div><div>Each movement goes with specific word(s) of prayer in Arabic.</div><div>These movements must take place in the correct order.</div></div>		<div>Unit 2 - Being Temperate, Exercising Self-Discipline and Cultivating Serene Contentment</div> <div>Religious Traditions: Christianity and Islam</div> <div>1. What influences my behaviour?</div> <div>Christians believe God is all-seeing and all-knowing.</div> <div><div></div><div>In the Bible story of Cain and Abel, when God accepted Abel and his gift, but didn't accept Cain and his gift, Cain became angry and sulked. Due to his jealousy, Cain attacked and killed his brother. God knew what Cain had done but gave him chance to own up. When Cain lied to God, God punished Cain and sent him away.</div></div> <div>Do you think your behaviour might change, knowing that God is aware of everything you do and say?</div> <div>2. What behaviour choices do I make?</div> <div>In the story of Cain and Abel, Cain's feelings of jealousy led to feelings of anger and then to the act of murder. Cain's act of murder then led him to lie to God.</div> <div><ul style="list-style-type: none">Good actions sharing, helping and being friendly come from the feelings of love, care, and empathy.Bad actions like bullying, lying and hurting come from the feelings of anger, selfishness and jealousy.</div> <div><div></div><div>3. What does Christianity and Islam teach about being peaceful?</div></div> <div>In some faith traditions, people practice controlling their feelings.</div> <div><ul style="list-style-type: none">In Christianity, some Christians take part in a 40 day fast during the period of Lent (immediately before Easter).Today, the most likely things people give up are chocolates, sweets and cake but some people will</div>	<table><tr><th>Word:</th><th>Meaning:</th></tr><tr><td>behaviour</td><td>the way a person acts or behaves</td></tr><tr><td>fasting</td><td>to eat no food</td></tr><tr><td>influence</td><td>the power of a thing or person that causes some kind of effect on another</td></tr><tr><td>jealousy</td><td>a feeling of envy towards another person and what he or she has or can do</td></tr><tr><td>Lent</td><td>the forty weekdays from Ash Wednesday to Easter, observed by Christians as a time to fast, pray, and be sorry for having done wrong</td></tr><tr><td>peaceful</td><td>quiet; calm</td></tr><tr><td>Ramadan</td><td>the month where Muslims fast from sunrise to sunset</td></tr><tr><td>relationship</td><td>a connection</td></tr><tr><td>rules</td><td>a law or direction that tells us how to behave or act</td></tr><tr><td>Salah</td><td>the five daily prayers Muslims perform</td></tr><tr><td>Ten Commandments</td><td>the instructions that God told Moses to share with the</td></tr></table>	Word:	Meaning:	behaviour	the way a person acts or behaves	fasting	to eat no food	influence	the power of a thing or person that causes some kind of effect on another	jealousy	a feeling of envy towards another person and what he or she has or can do	Lent	the forty weekdays from Ash Wednesday to Easter, observed by Christians as a time to fast, pray, and be sorry for having done wrong	peaceful	quiet; calm	Ramadan	the month where Muslims fast from sunrise to sunset	relationship	a connection	rules	a law or direction that tells us how to behave or act	Salah	the five daily prayers Muslims perform	Ten Commandments	the instructions that God told Moses to share with the	<div>What rules do you follow at school, home, outside or at places of worship?</div> <div>How do they help us to keep safe or show respect for ourselves and others?</div> <div>When going into a Mosque or Temple</div> <div><div></div><div>When outside</div><div></div><div>At home</div><div></div></div>
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Article 14 Freedom of thought and religion




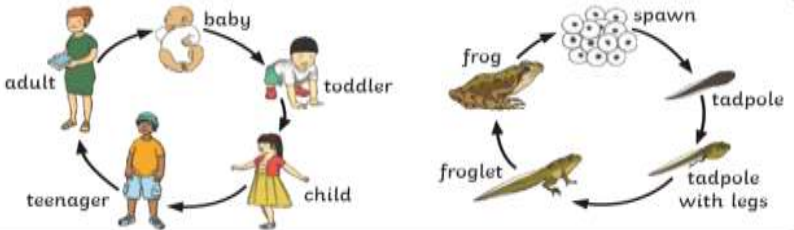





<div>1. </div> <div>2. </div> <div>3. </div> <div>4. </div> <div>5. </div> <div>6. </div> <div>7. Repeat movement 5 (Then stand up for the second unit of the prayer to start.)</div>		<p>also give up other pleasures such as tea or Facebook.</p> <ul style="list-style-type: none">○ The idea behind Lent is to give up those things that interfere with our relationship with God. <div></div> <ul style="list-style-type: none">○ In Islam, fasting is a chosen behaviour that helps Muslims to focus their relationship with Allah (swt) and gives them empathy towards those people who are less fortunate than themselves.○ All Muslims try to fast in Ramadan.○ Ramadan is the ninth month of the Islamic calendar. Fasting means that Muslims do not eat or drink anything in the daytime between dawn and dusk. This requires a lot of self control.○ Some people might not be able to fast as they are ill or travelling. <div></div>	<div>people. They tell Christians how God wants them to behave or act</div>	
<div>4. What rules has God made? (Christianity) In the story of Moses, people were rescued and they walked through dry land of the Red Sea. After God rescued his people, he gave them some rules to live by. These are known as the Ten Commandments and are in the Bible. The first 3 rules are all about a relationship with God.</div> <div><div>Christians believe God always knows the 'big picture' and God loves us and wants to keep us safe.</div></div>				

6. I should be supported to live and grow.



Knowledge Organiser – Science, 'Changes – People'- Animals including Humans- Year 2



Key Knowledge	Key Vocabulary		Cultural Heritage
<p>All living things reproduce and have offspring.</p> <p>Some animals give birth to live young. Their offspring usually look like them when they are born. → </p> <p>Other animals have offspring that do not look like them. → </p> <p>Some animals lay eggs which hatch into live young. This young then develops into an adult. When these eggs hatch, some animals look like their adult. E.g. birds and reptiles. → </p> <p>All young animals change at different stages as they grow into adults.</p> 	<p>Word</p> <p>Adult</p> <p>Develop</p> <p>Life Cycle</p> <p>Offspring</p> <p>Reproduce</p> <p>Young</p> <p>Live Young</p>	<p>Definition</p> <p>A fully grown animal or plant.</p> <p>To grow and become stronger.</p> <p>The changes that living things go through to become a fully developed adult.</p> <p>The child of an animal.</p> <p>When living things make a new living thing of the same kind.</p> <p>Offspring that has not yet reached adulthood.</p> <p>Offspring that has not hatched from an egg.</p>	<p>Life cycle of a Pakistani boy -</p>  baby  toddler  child  teenager  adult

6. I should be supported to live and grow.

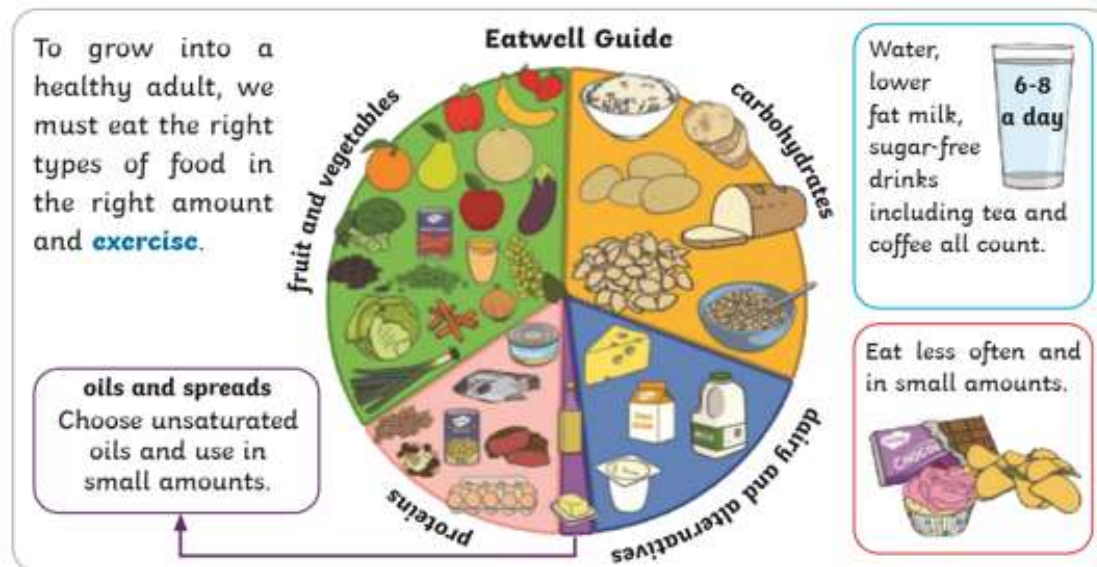
Key Knowledge

To stay alive all animals, have 3 basic needs -

- Air
- Water
- Food



To grow into a healthy adult, we must eat the right types of food in the right amount. We must also exercise!



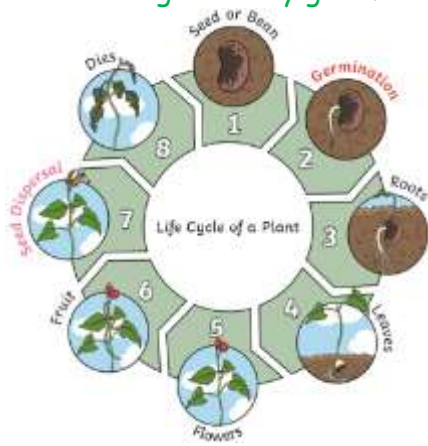
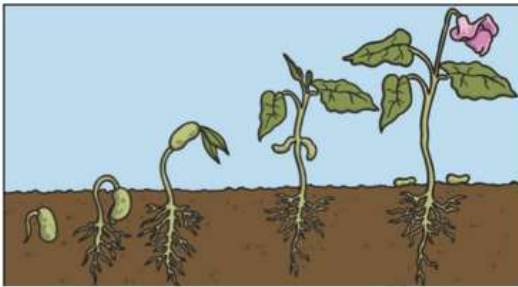




To stop illness and infections spreading, we must be hygienic and keep ourselves clean.

Key Vocabulary

Word	Definition
Dehydrate	To lose water and dry out.
Diet	The food and water that animals need.
Disease	Illness or sickness.
Energy	The power needed to carry out a given task.
Exercise	A physical activity designed to keep your body fit and healthy.
Germs	Bugs that cause illness.
Heart Rate	The number of times a heart beats in 1 minute.
Hygiene	How clean something is.
Nutrition	Food needed to live and survive.
Pulse	The beating of the heart that can be felt in the wrist and neck.

Knowledge Organiser – Science, ‘Changes – Plants’- Year 2

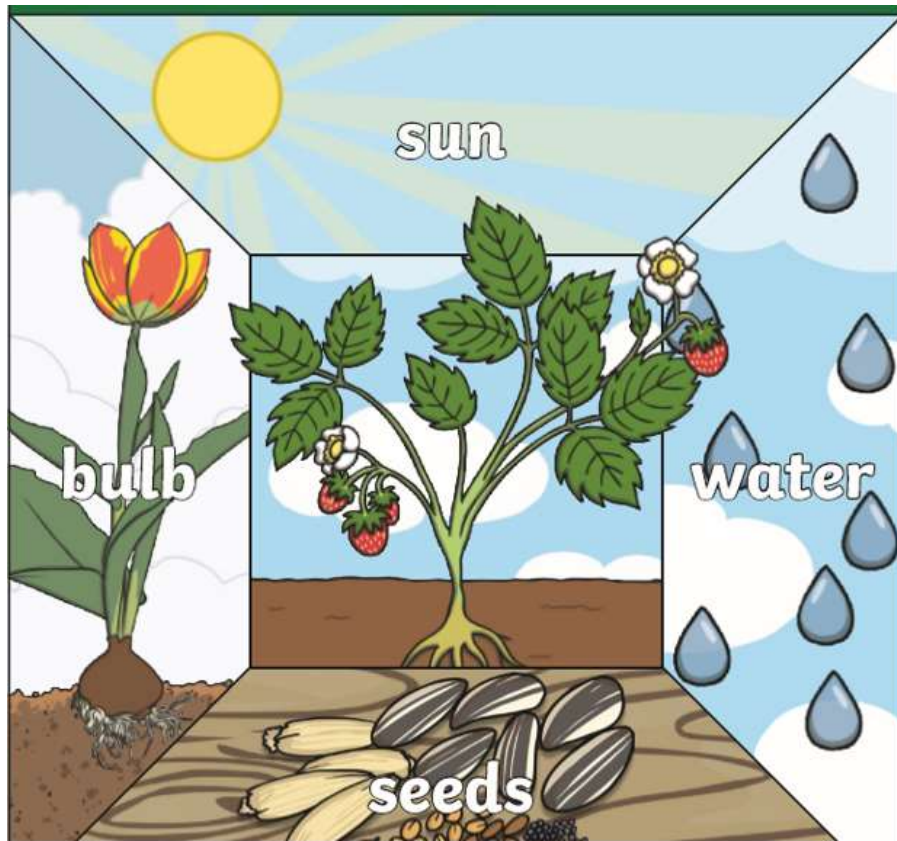
I have a right to education

Key Knowledge	Key Vocabulary		Cultural Heritage
<p>Observe and describe how seeds and bulbs grow into mature plants -</p> <p>Plants change as they grow.</p>  <p><u>Life cycle of a plant -</u></p> <ol style="list-style-type: none"> 1. Seed is planted in the ground. 2. Seed starts to germinate. 3. Roots start to grow. 4. Leaves grow on the stem. 5. Flowers start to blossom. 6. Fruit grows. 7. The seeds are dispersed. 8. The plant dies. 	<p>Word</p> <p>Germination</p>	<p>Definition</p> <p>When the conditions are right, the seed soaks up water and swells, and the tiny new plant bursts out of its shell. This is called germination.</p>	<p>Janaki Ammal Edavalath Kakkat was a female, Indian botanist who worked on plant breeding. Her most notable work involved studies on sugarcane and the eggplant.</p>  <p><i>Wild flowers that grow in Pakistan -</i></p> <ul style="list-style-type: none"> • Dandelion • Lantana • Thistle • Calotropis   
	<p>Sprout</p>	<p>When a plant sprouts it grows new shoots.</p>	
	<p>Shoot</p>	<p>A shoot grows upwards from the seed or plant to find sunlight.</p>	
	<p>Seed Dispersal</p>	<p>Seed dispersal is when the seeds move away from the parent plant. They can be moved by the wind or animals.</p>	

Key Knowledge

Find out and describe how plants need to grow and stay healthy.

- Water
- Light
- Suitable temperature



Key Vocabulary

Word	Definition
Sunlight	All plants need light from the sun to grow well. Some plants need lots of sunlight and others only need a little.
Water	All plants need water to grow. Without water seeds and bulbs will not germinate.
Temperature	Temperature refers to how warm or cold somewhere is. Some plants like warmer temperatures whilst others grow better in cooler temperatures.
Nutrition	This means food or nourishment. Plants make their own food in their leaves using sunlight.