

# Knowledge Organiser – Art 'Forest Runners' Year 5

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Key Knowledge and Skills	Key vocabulary		Cultural Heritage	
			Somalian Jungle	Bangladeshi Rainforest
UNDERSTANDING THE ART OF HENRI ROUSSEAU To use art vocabulary and sentence stems to discuss <b>composition.</b> How to use sketchbooks to compare and discuss ideas with others.	composition	how a picture is made up (background and foreground, complex/simple)		
JUNGLE COLLAGE <ul> <li>How to create visual and tactile qualities in a</li> </ul>	visual and tactile qualities	creating depth in a piece of art (3D), pleasing to the eye	The Indus River Pakista	n
<ul> <li>collage.</li> <li>How to fold, twist, gather and curl paper.</li> </ul>	line	a mark that joins different points		
RIVER ART	tone	light and darkness in a sketch	- Aller	Section of the sectio
To use art vocabulary and sentence stems to discuss how <b>line, tone</b> and colour has been used to create mood and movement in river art.	depicted	drawn, painted etc.		
<ul> <li>How to use books and other sources to learn about how artists have <b>depicted</b> rivers.</li> <li>How to use sketchbooks to experiment with different styles that artists have used and plan their work?</li> <li>How to use <b>shading</b> and colour to create mood</li> </ul>	shading	darkening for a second se	Danube River Romania	Sector Sector Sector
<ul> <li>and feeling.</li> <li>How to use line, texture, and tone to create movement and reflection.</li> <li>How to print with sponges to create movement, tone and texture.</li> </ul>	E 兴富国业量器	making it seem real		Nadata National Standard



# Knowledge Organiser – Year 5 Computing: We are VR Designers (5.6) Article 17 I have the right to get information in lots of ways as long as it is safe



Key Knowle	Key Knowledge Key vocabulary		Cultural Heritage	
Unit 5.1: We are game Developing an interactive game	developers	Accelerometer	hardware component providing data on changes in motion, typically in three directions.	Virtual reality in Healthcare
During this sequence of learnin Street View and CoSpaces to ex virtual reality (VR) and augm content of their own.	plore and create	Augmented reality (AR) Global positioning system (GPS)	digital layer superimposed on a view of the real world. this system allows a user to determine their exact location using a network of satellites.	
Let's learn Virtual reality works by showing each eye two slightly different images to create the illusion of depth (This is known as a <b>stereographic</b> image). An <b>accelerometer</b> (built into smartphones and tablets) tracks how the headset turns, so that the view keeps changing as the headset is moved.	Google Cardboard	Google Cardboard Photosphere	low-cost VR headset, typically made from cardboard and plastic lenses, which repurposes a smartphone as a VR display. spherical collection of photographs so that the image displayed matches the direction viewed.	From developing new life- saving techniques to training the doctors of the future,
A button on the headset allows the wearer to click on virtual hyperlinks in order to move around the 'world' they see.		QR code	2-D array of light and dark squares used to encode text in a way that can be read using a smartphone or tablet camera.	Virtual reality in Education
G G G G G G G G G G G G G G G G G G G		Share code	CoSpaces shortcut to allow those with the software to view a scene created by another user.	
Street View	Season 2: Jaking 360 degree (magas Galery Dearer	Stereographic	a pair of slightly different images created with a slight offset, and shown to left and right eyes to create the illusion of depth.	Vr provides the
Trans & Regarding in Capacit		Virtual reality (VR)	simulated, immersive 3-D representation of a real or imagined scene.	opportunity to bring the outside world into the classroom.



# Knowledge Organiser – Cooking: 'Rainforest delights' Year 5



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Key Knowledge and Skills	Кеу	vocabulary	Cultural Heritage
What food come for the rainforest.	bridge hold	cutting technique whereby one hand is used to make a bridge over the vegetable or fruit with fingers on one side and thumb on the other.	Nadiya Hussain – British Muslim chef, presenter,author and winner of 'The Great British Bake-off'.
Avento Cor Copy Lange Over	dice	cut into small cubes	
2 💱 🛠 🛹 🧆 🦢	tsp	teaspoon	
Consent Consent Direction California Barara	cilantro	Spanish for coriander	
<u>Use both the bridge hold and claw grip</u> to cut the same food using a serrated vegetable knife.	seasoning	salt and pepper	
	сир	128g	Great renown Romanian chef Alex Dimitru.
To chop using the 'bridge hold' — Using one hand, make a bridge over the vegetable or fruit with fingers on one side and thumb on the other, cut down under the 'bridge'. To chop safely— using the claw - tucking in	shred combine	to cut into long thin strips to join together as a	
thumb or fork hold techniques.	boil	whole heat the water until it	
into evenly sized, fine pieces.		bubbles	The suspense
To use a lemon squeezer. <u>To grate safely using a grater</u> grate away from self, grater positioned downwards against chopping board. To shred safely using a serrated vegetable knife. With close supervision, boil water on a hob.	grater	To fold a burrito.	The renowned Birmingham Balti triangle.

# Knowledge Organiser – Geography: Forest Runners Y5







## **Rainforest Layers**

**Emergent Layer**: This is the top layer of the rainforest. Only a few animals live in this layer. It is hot, wet and windy in the emergent layer.

**Canopy Layer**: The canopy layer is located under the emergent layer. The canopy is home to most of the animals and plants of the rainforest. There is plenty of food and shelter in this layer.

**Understory Layer**: This layer is located beneath the canopy. The understory does not get much sunlight. It is dark and humid here. The understory is home to smaller animals. Insects and snakes.

**Forest Floor**: The last layer of the rainforest is the forest floor layer. This layer is dark, humid and hot. Only 5% of the sunlight makes it to the forest floor.

## Rainforests of the World



Rainforests get their name from the heavy rains that fall almost everyday. Rainforests are often known as the "lungs of the Earth". The trees absorb harmful carbon dioxide and produce 20% of the Oxygen in Earth's atmosphere.

## Why are Rainforests important?

Rainforests cover only 6% of the Earth, but they home 50% of all plant and animal species. 25% of medicines comes from plants found in the rainforest.

### Deforestation

Deforestation occurs when trees are cut down across a wide area which is permanently cleared for another use. Every 20 minutes, an area of the rainforest the size of 20 football pitches is cut down. If this rate continues there will be no rainforests in 100 years time.







## Knowledge Organiser – R.E Year 5

Article 14 I have the right to have my own thoughts and beliefs and to choose my religion, with my parents' guidance

		Кеу	Knowledge	Key	Vocabulary	Cultural Heritage
	<u>Unit 11 -</u> Being Tl	hankful	Unit 12 - Being Imaginative and Explorative	Word:	Meaning:	How do you say thank you
1. When a We say tha	<u>raditions: Christianity</u> and why do we say t nk you as a response hankful for somethir	t <b>hank you?</b> e or when we are	<ul> <li><u>Religious Traditions: Islam, Hinduism</u></li> <li><b>1. What do you see in your mind?</b></li> <li>Our imagination is unique and complex. Our ideas come from our individual memory, nature and imagination.</li> </ul>	complex	difficult to understand; having many connected parts	in your home language?
has giv for beir	thank you for some j ven you and thank yo ng there.	u to the dinner lady	<ul> <li>People of faith believe our ideas are a blessing from God.</li> <li><b>2.How do Religious Traditions respond to human</b></li> <li><b>creativity in worship?</b></li> <li>What do religions encourage and forbid in their artistic</li> </ul>	eternal	having no beginning or end; lasting always and forever	Who do you say thank you to?
you for you for When else o Some exam	ne, the difference bet pocket money or a s just being your mun can we give genuine nples of ways we mig ude giving hugs and g	spontaneous thank n. thanks? sht express our	<ul> <li>creativity?</li> <li>In Islam, neither prophets nor Allah (swt) are represented in drawings. Mosques are therefore beautifully decorated by tessellated patterns.</li> </ul>	Five elements forbid	believed to be the elements of everything in the universe to give orders that	<ul> <li>Friends?</li> <li>Family?</li> <li>Teachers?</li> <li>Neighbours?</li> <li>God?</li> </ul>
	different ways do be		<ul> <li>In Hinduism, Mudras are gestures performed with the hands to show various feelings, expressions and meanings. They</li> </ul>	Murdas	prevent or don't allow denoting or characterized by a pattern of	Which language do you say thank you to God in when you pray? Is it different from your home
actions	giving to others in need (James, 2:14-17)	doing things that please Allah (swt), e.g. giving help	are used in worship, yoga and dance. Each finger represents one of the five elements (earth, wind, fire, air and water).	praise	words that show admiration or respect	language? When Muslims are thankful to Allah (swt),
words	prayer (1 Samuel 2:1-10)	saying good things	3.What attributes are given to Allah (swt)? (Description of Allah (swt), Qur'an 2:255)	spontaneous	happening in a free way; not	they say 'Alhamdulilah' in Arabic, which means 'All
worship	praise poems/songs (e.g. Chris Tomlin - Give Thanks to the Lord, Bsolm 100 or 126 )	praying, fasting, reading the Qur'an, completing Hajj (pilgrimage)	"Allah! There is no God but He -the Living, the Self- subsisting, Eternal. No slumber can seize Him nor sleep. His are all things in the heavens and on earth." Muslims believe that the 99 names of Allah (swt) help them	tessellated	forced representing or including a pattern of repeated shapes	praise to Allah (swt)
money	Psalm 100 or 136 ) giving generously (Mark 12:41-44)	giving Zakah (charity)	understand His qualities.	unique	being the only one of its type; sole; single	





	Key Kn	owledge	Ke	ey Vocabulary	Cultural Heritage
1.	The value of friendships / managing peer	There are different types of abuse: physical	Word:	Meaning:	Spiritual Health
0	<b>pressure</b> Friendships may look different, but it is the equality within the friendship that is important rather than who with or the	abuse, emotional abuse, sexual abuse, neglect and domestic abuse. It is important to speak to a trusted adult even	conflict	process of resolving a disagreement between two or more parties	Spiritual wellness refers to finding meaning and purpose in life and living in
0	number of people. Some friendships can have an unequal	<ul> <li>when you:</li> <li>have been asked to keep it a secret</li> <li>someone you love is hurting you or</li> </ul>	constructive	having or intended to have a useful purpose	accordance to your values, morals and beliefs <i>How do you and your family</i>
	balance – these can become difficult to	someone else in your family or close	destructive	negative and unhelpful	take care of your spiritual
	maintain as there is often a demand and	relations/family friends	domestic	when someone abuses	health?
	response relationship— as one party can feel pressurised into doing things they feel are wrong or uncomfortable	<ul> <li>are worried that no-one will believe you</li> <li>have already tried telling someone who didn't listen</li> </ul>	abuse	someone in a relationship. It can affect you if it's your	<ul><li> Praying</li><li> Reflecting</li><li> Sitting in silence</li></ul>
	hat action could a person take if they feel	You can also speak to Childline		relationship or between	Listening to oneself
	essured? (walk away, talk to someone, say	to get help.		people in your family	Questioning, searching
no 2. 0	Conflict resolution including consent Although conflicts are seen negatively it is often the way in which people choose to respond to them. The constructive approach is likely to lead	<ul> <li>Online safety in the wider world</li> <li>When an online relationship breaks down,</li> <li>cyber bullying might occur.</li> <li>Cyberbullying can include trolling, isolation from group chats, negative name-calling and online grooming (this will be looked at</li> </ul>	emotional abuse	when someone is always putting you down, shouting at you, ignoring you or making you feel bad about yourself	for meaning <ul> <li>Empathy for others as feeling, thinking people</li> </ul>
0	to learning, problem solving and better relationships. Destructive ways will lead to escalation	<ul> <li>more in Year 6).</li> <li>It can be more damaging because the accessibility to the victim is 24 hours</li> </ul>	harassment	when a person annoys or upsets someone else, usually repetitively	
<b>3.</b> 0	and negative outcomes <b>Unhealthy relationships</b> All families have problems sometimes and it's normal for family members to fall out	<ul> <li><b>5. Building resilience in relationships</b></li> <li>Resilience is the capacity to recover quickly</li> <li>from difficulties, toughness.</li> <li>Mental wellbeing can be defined as feeling</li> </ul>	hormones	chemicals that tell cells and body parts to do certain things e.g. to grow	
0	or have different opinions, especially as you grow up. Sometimes there may be more serious issues in families and these are never okay.	<ul> <li>good, feeling that life is going well, and feeling able to get on with daily life.</li> <li>It is influenced by a range of factors, including your family, you community and school environment, your physical health and you social and emotional skills.</li> </ul>	neglect	when you don't get what you need to survive and feel safe at home	



- Your voice will gradually deepen but until this settles down you could sound croaky and produce some interesting sounds! This is your voice breaking.
- Hormones can make you sweaty and spotty
   good personal hygiene (washing and deodorising) is all important
- Parts of your body may become more hairy
- Your body keeps growing until you reach a height that you will stay at. You may become more muscular too.
- The extra hormones may also cause you to have mood swings.
- Remember, puberty is not a secret! Every adult or older teenager has already experienced it, so if there's anything you feel worried about, they will probably understand.

MENTAL		EMOTIONAL
Types of health:		
	anno	by someone
	the i	nternet in order to
-		ting message on
trolling		act of leaving an
		TS rule)
		al (remember the
	•	doing something
		sures or tricks you
sexual abuse		n someone forces,
		ld to an adult
		ou move from being
		evelop and change
paserty		n your body begins
puberty		name for the time
abase		e you on purpose
abuse	_	ething to physically
physical	whe	n someone does

MENTAL	EMOTIONAL
Knowing our interests Learning new things Taking responsibility Making good decisions Setting & achieving goals	Expressing feelings positively Dealing with stress, anger & other emotions healthily Respecting yourself
SPIRITUAL	PHYSICAL
Connected w/self & world Sense of peace Awareness of purpose Unconditional Love Making a difference	Eating healthily Exercising Getting enough sleep Caring for our bodies Avoiding "risky" behaviors
SOCIAL	
Respecting others Accepting differences Giving & asking for support Listening & bettering communication	



## Knowledge Organiser Science: 'Forest Runners': Animals including Humans - Year 5



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Key Knowledge	Ke	y Vocabulary	Cultural Heritage	
Describe the changes as humans develop to old age -	Word	Definition	Life cycle of a Pakistani	
<ul> <li>Human Life Cycle -</li> <li>There are 6 main stages to the human life cycle.</li> <li>Foetus - All people start off life as a foetus in their mother's belly. A foetus grows in the womb. Doctors can take a photo of a foetus using an ultrasound scanner.</li> <li>Baby - After around nine months (sometimes a bit longer; sometimes a bit less) the mother gives birth. Babies cannot do much for themselves and need to be fed (with milk at first, then later with food).</li> <li>Child - Children are more independent than babies, and they continue to become more independent as they get older; for example, they can eat food that is given to them and dress themselves.</li> <li>Adolescent - There is even more brain development during this time. Adolescents are more independent than children. This is when the body starts to change and prepare itself for adulthood. Hormonal changes take place over a few years.</li> <li>Addulthood - The human body is at its peak of fitness and strength between 18/19 and 39. Adults usually live independently.</li> <li>Elderly - This is the final stage of the human life cycle. There is a decline in fitness and strength during this stage.</li> </ul>	Adolescence         Adulthood         Development         Foetus         Gestation         Growth         Hormones         Infancy         Life cycle         Life processes	the period of your life in which you develop from being a child into being an adult.the state of being an adult.the state of being an adult.the state of being an adult.the gradual growth or formation of something.an animal or human being in its later stages of development before it is born.the process in which babies grow inside their mother's body before they are born.an increase in something.a chemical, usually occurring naturally in your body, that makes an organ of your body do something.the period of your life when you are a very young child.the series of changes that an animal or plant passes through from the beginning of its life until its death.There are seven processes that tell us that living things are alive.	boy -	



## Knowledge Organiser Science: 'Forest Runners' Living things and their habitats Year 5 Article 28 I have the right to an education



Key Knowledge	Ke	y Vocabulary	Cultural Heritage	
Life cycles -	Word	Definition	The Lynx from Romania lives	
<ul> <li>Mammals- The lifecycle of a mammal involves 3 stages -</li> <li>Gestation: Embryo growing inside the mother, where it is completely reliant upon the mother.</li> <li>Young: Main period of growth and developing independence from the</li> </ul>	Behaviourist	someone who studies animal behaviour: how they learn from their environment, rather than emotions or feelings	in the Carpathian Mountains.	
<ul> <li>parents.</li> <li>Independent adult usually seeks company from the opposite gender. Adult female nurses their young.</li> </ul>	Naturalist	an expert in, or a student of, natural history		
<ul> <li>Amphibians -</li> <li>The female lays mass of eggs which are fertilised by the male.</li> <li>After 2-25 days the tadpole hatches from the egg. It swims and eats</li> </ul>	Seed dispersal	it is the way seeds get from the parent plant to a new place.	The Giant Panda, from China, lives in forests high in	
<ul><li>plants. It breathes through gills.</li><li>The tadpole grows front legs and tail shortens. Uses nutrients in tail as</li></ul>	Stigma	the stigma is the area where pollen is received.	the mountains of China.	
<ul> <li>food. It jumps out of water onto land.</li> <li>The tail disappears and it starts to eat insects instead of plants. It takes 2-4 years to become an adult frog, when it can lay eggs.</li> <li>Insects-</li> <li>Eggs are laid by the female insect.</li> <li>The eggs hatch into larva. The larva look nothing like the adult. This varies</li> </ul>	Stamen	the stamen is the part of the flower that produces pollen. There are two main parts of the stamen: the filament and anther.		
<ul> <li>depending on species. Common forms are caterpillars, maggots, grubs</li> <li>The pupa is formed when the larva moults for the last time. Pupa have a hard protective coating and are often camouflaged. The larva transforms completely inside the pupa.</li> </ul>	Life Processes	there are seven life processes that every living thing has in common.	The Bengal tiger, from Bangladesh, lives in tropical forests.	
<ul> <li>The adult breaks out of the pupa and matures.</li> <li>Birds -</li> <li>Eggs are laid by the mother and the mother and father care for the egg until it hatches.</li> </ul>	Pollination	the transference of pollen to a flower, or plant to allow fertilisation		
<ul> <li>Mother and father feed the young bird until it is old enough to fly and find its own food</li> <li>Independent adult usually seeks company from opposite gender.</li> </ul>	Life Cycles	the series of changes that an animal or plant goes through from the		

Ve can compare the life c Compare the life cycles	of mammals and bir	rds.	Root	beginning to the end of its life the part of a plant which attaches it to the ground.
<ul> <li>3 main stages</li> <li>First stage is where embryo forms and grows</li> <li>Second stage is where young is supported by parents.</li> <li>Third stage is adult stage where reproduction takes place.</li> </ul>	Difference • Mammals give live young • Birds lay eggs • Mammal usual nursed by moth • Young birds us fed by adult mo female.	birth to ly her ually	Germination	It transfers water and nutrients to the rest of the plant. the development of a plant from a seed or spore after a period of dormancy
Life Cycles of Common P Lifferences! Flowering Plant Life Flowering Plant Life A rose Germination: The seed grow when conditions of suitable Roots grow, usually und A stem and leaves form plant makes its own for (photosynthesis). The pollen in the flowe to make seeds. Seeds are spread out s	Cycle No Starts to ure • derground. n, and the od • crs is used • so they •	the similarities and on -Flowering Plant Life Cycle	60 year research or chimpanzees. Sir David Attenbor	haviourist, is best known for her n social interactions of wild r <b>ough</b> , a naturalist, who has o the study of natural history.