Knowledge Organiser Year 2 Science: Animals including humans: basic needs

Concept: Evolution, Ecosystems

Ke	ey Vocabu	lary		Basic Needs of Animals	
oxygen	A colourles gas	s, odourless	Water - Many animals drink to water to survive.		
shelter	Provides safety from weather and predators		- Some animals get their water from oxygen.		
reproduce	Have offspi	ring/babies	Food - Animals use food to get the energy and nutrients that they need. - Food - Examples are: burrows, nest dens.		hurrous posts and
herbivore	Eats plants				
carnivore	Eats other a	animals	Oxygen -All animals, including hum	ans	at are vitally
omnivore	Eats plants	and animals	need oxygen to live. 💴 important to all animals. This g		
Animo	al Life Stage	s	and even in the water.		
birth growth reproduce death					
All animals reproduce. -For example, mammals give birth to live young, whilst fish lay eggs.					
rep	tile	mamme	al fish	amphibian	bird

Knowledge Organiser Year 2 Science: Humans – exercise, balanced diet, health and well-being

Concept: Evolution

Key Vocabulary		
exercise	Physical movement to build muscle and keep healthy	
balanced diet	Eating the right amount from each food group	
hygiene	Things we do to help prevent illness and keep healthy	
nutrition	Getting the necessary food for health and growing	



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These help stop the spread of germs:

- * Brushing your teeth
- * Washing your hands regularly
- * Washing our hair and bodies regularly



Knowledge Organiser Year 2 Science: Plants

Key Vocabulary		
plant	Plants are a large group of living things that use sunlight to make their own food.	
germination	It is the name for when a plant starts to grow.	
sprout	Starts to grow visible shoots	
embryo	A baby plant	
seed coat	A tough layer on the outside to protect the plant	
food store	A store of food to help them continue growing	
nutrient	A substance that provides nourishment for growth	

Concept: Evolution Ecosystems		
What Plants Need to Grow		
 Water and Nutrients -Plants get water from the soil through their roots. -They can also catch water on their leaves. 	Light -Plants do not eat food. They instead use sunlight to make their own food.	
Temperature -Plants need the temperature to be just right for them to grow properly.	 <u>Space and Time</u> -Plants need room for their roots and stems to be able to grow. -It can take days, months or even years for them to grow. 	
	Plant Life Cycle	

Growth from Seeds/Bulbs into Mature Plants







Knowledge Organiser Year 2 Science: Living things and their Habitats

Key Vocabulary		
habitat	It is a home environment for plants, animals, and other living things.	
micro-habitat	Are small, specific home environments: individual trees, a pond, under a rock, or a pile of logs.	
migrate	To move from one region or habitat to another according to the seasons	
nutrition	Getting the food needed for health and growth	
environment	An environment contains many habitats and these include areas where there are both living and non-living things.	
classification	The is where plants or animals are placed into groups according to their similarities.	

Concept: Ecosystems

Food Chains

-Every living thing needs food in order to create energy. This process is called nutrition.

-Animals need to eat food (either plants or other animals) in order to get energy.

-Living things depend upon one another to live.



Habitats



Knowledge Organiser Year 2 Science: Use of everyday materials

<u>Materials</u> are the <u>substances</u> that

things are made from.

Materials			
Material		Properties	What could it be used for?
metal		strong, shiny, hard and long-lasting, can be hammered into different shapes	pots, pans, tin cans and wires
glass		strong, but thin glass shatters, is transparent and waterproof	windows, glass, mirrors and windscreens
wood		hard, strong, flammable, long-lasting and is a natural product	furniture build houses
plastic		can be tough or flexible dyed different colours can be made transparent	make packaging, bottles and toys
rubber		extremely tough, but also very flexible elastic and also waterproof, doesn't tear easily	tyres, elastic bands
brick		hard and strong, difficult to break thick and stores heat well	used to make buildings

Key Vocabulary	
natural	Natural materials are found in nature and are not made by people.
man-made	Man-made things are created by people.
transparent	A material which lets light through
rigid	Unable to bend or be forced out of shape
absorbent	Soaks up liquid
flammable	Easily set on fire
flexible	How a material bends, stretches
waterproof	Keeps out water, doesn't let liquid through

