# Year 2 Knowledge Organisers

Science

# **Uses of Everyday Materials**

<u>Key vocabulary</u>	
materials	Materials are what objects are made from.
suitability	<b>Suitability</b> means having the <b>properties</b> which are right for a specific purpose.
properties	This is what a <b>material</b> is like and how it behaves (soft, stretchy, waterproof).
Transparent	This is clear and allows light through it.
Opaque	Not able to see through it
Waterproof	Keeps water out
Flexible	Able to bend without breaking
Absorbent	Allows water in



Bend an object by grabbing both ends of the object and bringing the ends inwards together.



Twist an object by turning your hands in opposite directions.

#### Key Knowledge

**Properties of Materials** 



















paper:

flexible.

# Living things and their habitats

<u>Key vocabulary</u>		
Life Processes	These are the things that all <b>living</b> things do. They move, breathe, sense, grow, make babies, get rid of waste and get their energy from food.	
Living	Things that are <b>living</b> have all the <b>life processes</b> .	
Dead	Things that are <b>dead</b> were once <b>living</b> . They did have all the <b>life processes</b> but don't now.	
Never living	Things made out of metal, plastic or rock were <b>never living</b> . They never had the <b>life processes</b> .	
Food choices	A <b>food chain</b> shows how each animal gets its food. <b>Food chains</b> are one of the ways that <b>living</b> things <b>depend</b> on each other to stay alive.	
Food chain	This shows where living things get their food from.	

#### Key Knowledge







Food chains. The arrows mean 'is eaten by'.





# Living things and their habitats

<u>Key vocabulary</u>	
Habitat	A <b>habitat</b> is the natural place something lives. A <b>habitat</b> provides <b>living</b> things with everything they need to <b>survive</b> such as food, shelter and water.
Microhabitat	A microhabitat is a very small habitat in places like under a rock, under leaves or on a branch. Minibeasts live in microhabitats. The microhabitats have everything they need to survive.
Depend	Many <b>living</b> things in a <b>habitat depend</b> on each other. This means they need each other for different things.
Survive	This means to stay alive.

#### Key Knowledge

Examples of habitats:



#### Examples of





# Living things and their habitats

<u>Key vocabulary</u>	
	A fully grown up animal or
Adult	plant.
	To grow and become stronger
Develop	
	The changes living things go
Lifecycle	through to become an adult.
	The child of an animal.
Offspring	
Reproduce	When living things make a new living thing of the same kind.
Young	Offspring that has not reached adulthood
Live young	Offspring that has not hatched from an egg.

All living things reproduce and have offspring.

Some animals give birth to live young. Their offspring normally look like them when they are born.



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.

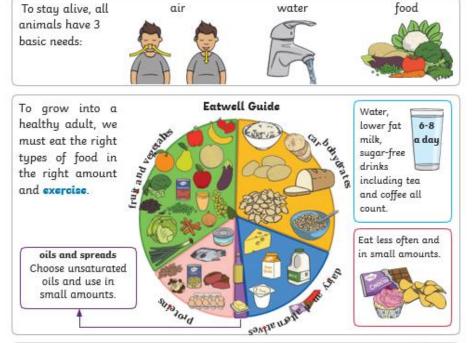






## Living things and their habitats

<u>Key vocabulary</u>	
	Lose water (Dry out)
Dehydrates	
Diet	The food and water the animals and human needs to survive.
Disease	sickness
Energy	Physical exercise your body needs
Germs	Bugs and diseases that are harmful to your body.
Heart Rate	The number of times the heart beats per minute
Hygiene	How clean something is in order to stop the germs from spreading.
Nutrition	Food needed to live.
Pulse	The beating of your heart.



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



<u>Key vocabulary</u>	
Germination	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.  When a plant sprouts, it grows new shoots.
Sprout	A shoot grows upwards from the seed or plant to find sunlight.
Shoot Seed dispersal	Seed dispersal is when the seeds move away from the parent plant. They can be moved by the wind or animals.
What do plants need to grow well?	
Sunlight	All plants need light from the sun to grow well.  Some plants need lots of sunlight. Some plants only need a little sunlight.
Water	All plants need water to grow. Without water, seeds and bulbs will notgerminate.
Nutrition	Temperature is how warm or cold something or somewhere is. Some plants like cooler temperatures and some like warmer temperatures.
Temperature	Food or nourishment. Plants make their own food in their leaves using sunlight.

