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Topics that have been covered

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<u>Unit I</u>	<u>Unit 2</u>	<u>Unit 3</u>
Environments and	Forces and movement	Getting materials right
habitats		
1.1 Habitats	2.1 Forces around us	3.1 Natural and made
1.2 Plants in different	2.2 Changing shape	materials
habitats	2.3 Changing speed	3.2 Properties of
1.3 Animals in different	2.4 Changing direction	materials
habitats		3.3 Using the right
1.4 Rocks and the		material
environment		3.4 Testing materials
1.5 How can we care for		
our environment?		

Objectives of unit 1

- > Explore the environment to find the habitat of a living thing.
- > Talk about different living things in a habitat.
- Compare two local habitats.
- > Describe the place an animal or plant lives as its habitat.
- > Find out about how people can change the environment.

Objectives of unit 2:

- > Learn that forces can make things move and make things stop.
- > Make predictions and say if they are right.
- > Learn that forces can change the shape of some objects.
- Use objects to measure.
- > Find out how forces make things go faster or slower.
- Ask questions about how to make things go faster or slower.
- > Find out how forces make things change direction.

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Objectives of Unit 3

- Learn about where materials come from.
- > Learn which materials are natural and which materials have been made by people.
- Learn about the properties of different materials.
- > Learn that materials have more than one property.
- > Find out why a material can be good for making some objects but not others.
- > Learn that we can test materials to find out their properties.
- > Use objects to measure.

Summary Unit 1

Environments and habitats

- **4** Each animal needs an environment which is a good **habitat** for them.
- **4** A **habitat** is the **home** for a living thing. It provides animals and plants with their needs.
- Animals need food, water, air and a home or a shelter in their habitat. Plants grow in many different habitats.
- Many plants grow in or by water like rice.
 Most plants grow by a river in forests.
 Plants need light, water, soil and air in their habitat.
 Some plants live and grow in hot deserts like cactus.
- Habitats are desert, rainforest, arctic, savannah,
 Aquarium (ocean, sea, river and pond) and mountain.
 Each habitat has its own animals and plants that live there.



- Many animals live by water. For example, the habitat for a frog must be a wet area, stream or pond. Some animals live in very hot deserts like Camels and some animals live in freezing weather like polar bears and penguins.
- Insects and other small animals need a safe place to live close to food. Many small animals eat twigs and dead leaves.
- We can tell that animals were here through clues.
- The clues might be tracks, droppings, leaves that have been eaten or birds singing.



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What makes a rock?

Rocks are made out of little grains stuck together.

Planet Earth is made of rocks. Some rocks are deep underground; some rocks are at the surface. We use rocks to make roads, paths, bridges, walls, floors, buildings, roofs and even fire.

What is a stone?

A stone is a small rock.

What is a pebble?

Pebbles are stones that have been made smooth by the sea.

There are 2 types of rocks (hard and soft rocks):

Hard rocks are difficult to break or scratch.

Soft rocks are easy to break and scratch.

There are 2 types of rocks:

Permeable rocks (Absorbant):

Means that those rocks will let water run through it.

Permeable rocks have lots of pores inside it, those pores allow the water to pass through. Example: Coal, chalk.

Impermeable rocks (Waterproof):

Means that those rocks won't let water run through it.

Impermeable rocks don't have lots of holes inside it so it will not let water run through. Example: Diamond, granite, slate.













Digging up rocks:

We dig up rocks in:

- Quarries
- Mines
- River beds.

Things used to dig up and move the heavy rocks:

- Tools
- Diggers
- Trucks
- Trains

Quarries:

A quarry is a place where we dig rocks on the earth's surface. Sometimes we use explosives to break rock into pieces. This is a dangerous job.

Rocks that we get from a quarry:

Marble, slate and limestone.

Deep mine:

A deep mine is a place where we dig rocks deep underground. People use spades and other tools. This is very dangerous work.

Rocks that we get from a mine:

Diamonds, marble, coal and salt.

River bed:

A river bed is a place where we dig stones. We use spades and big diggers. <u>Rocks that we get from a riverbed:</u>

Cand, groupland nabbles

Sand, gravel and pebbles











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Rocks and their properties and what we use it for:

Name	Properties	Uses
Marble (impermeable rock)	Color: Usually white. Can have different colored veins in. Can be polished to look smooth.	Used for making buildings and artwork.
Chalk (permeable rock)	Color: Have a white color.	It is most often used for writing and drawing.
Limestere	easily break. its light in weight	
(permeable rock)	yellow.	cement.
Condotono	It's a soft rock.	It is used to make buildings
(permeable rock)	or white.	because it's difficult to be break
	the granite.	
	Returns to sand when damaged.	
Granite (impermeable rock)	Color: Usually red, pink, grey or white with dark grains. Usually very rough (hard) but can	It is commonly used in architecture (bridges and buildings).
	be ponsiled.	Granite is used as a building material because it is hard and
TERN	ATIONAL S	durable. It can be cut and carved and can also be highly polished and used for kitchen worktops.
Coal (permeable rock)	Color: It's black or dark brown colored rock.	It is used to burn fire to keep us warm. Used in picnics to grill food.
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- Sometimes people can have a bad effect on the environment, beaches and streets full of litter. Dirty water comes from the pipe.
- 4 Pollution is bad for animals and plants. Animals can eat litter or be stuck in a plastic bag.
- We have to care for our environment by planting trees. Don't throw litter. Don't waste water.
- We can recycle materials glass, paper, plastic and re-use them instead of throwing them and cause pollution.
- This sign means that we can recycle materials.



Summary Unit 2

Forces and movement

- Push
- 4 A push and a pull are forces.
- **Forces** can make things **move** and make things **stop**.
- A push is a force away from you.
- 4 A **pull** is a force towards you.
- We use forces in our lives every day. There are small forces and big forces.
- If we're pushing a car out of the road we use a big force.
- 4 If we're **pushing** a football while playing, we use a **small force**.



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Forces can change the shape of some objects.		
1. We can bend a metal bar to make ahook.		
 We can stretch the rubber bandto make it longer. 		
3. This cake has been squashed.	dread a lories	
4. The man twisted the cloth.		
Forces can make moving objects change speed.		
∔ To go faster on a bike you push on the pedals.		
∔ To go slower you pull on the brakes.		
Going faster is called speeding up.	brakes	
Going slower is called slowing down.	ANGER	
Your speed is how fast you are moving.		
4 When something speeds up or slows down it is b	ecause of a force .	

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- Forces can make things change direction.
- 4 A **bigger push** will make an object move faster.
- **4** A **smaller push** will make an object move slower.
- **Forces** can make moving objects change direction.
- **4** Pushes and pulls can make moving objects turn.

Summary Unit 3

Getting materials right

- **4** There are many **natural materials**. They come from the world around us.
- The materials in these pictures are natural.



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- 4 Other **materials** have to be **made** by people.
- We send natural materials to special factories to be made into other materials.
 We call them manufactured or man-made materials.
- **4** The **materials** in these pictures are **made**.



- The properties of materials is describing it and tell what a material is like. The properties of a material are also called the characteristics of the material.
- **4** Materials have many different properties or characteristics.
- 4 Water cannot get through **plastic**. Water soaks into most fabric.
- **Plastic** is waterproof and flexible. Most fabric is absorbent and soft.
- The properties of materials tell us what a material is like.
- Rock is rigid. Rubber can be flexible.
- 4 A nail is made of Metal. Metal is hard, shiny and strong.
- **4** Paper is weak, dull and smooth.
- Glass is good for a window because it is transparent. This means we can see through it.
- 4 A wall can be made of rock because rock is strong.
- **4** A **bottle** can be made of **plastic** because plastic is **waterproof.**
- **4 T-shirt** can be made of **fabric** because fabric is **soft** and **flexible**.

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