

Learner's Book



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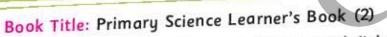
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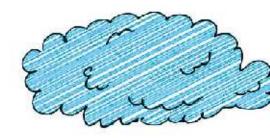
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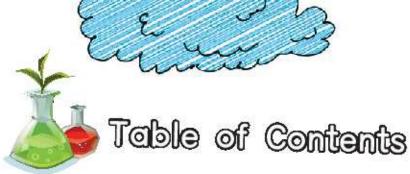


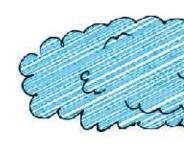


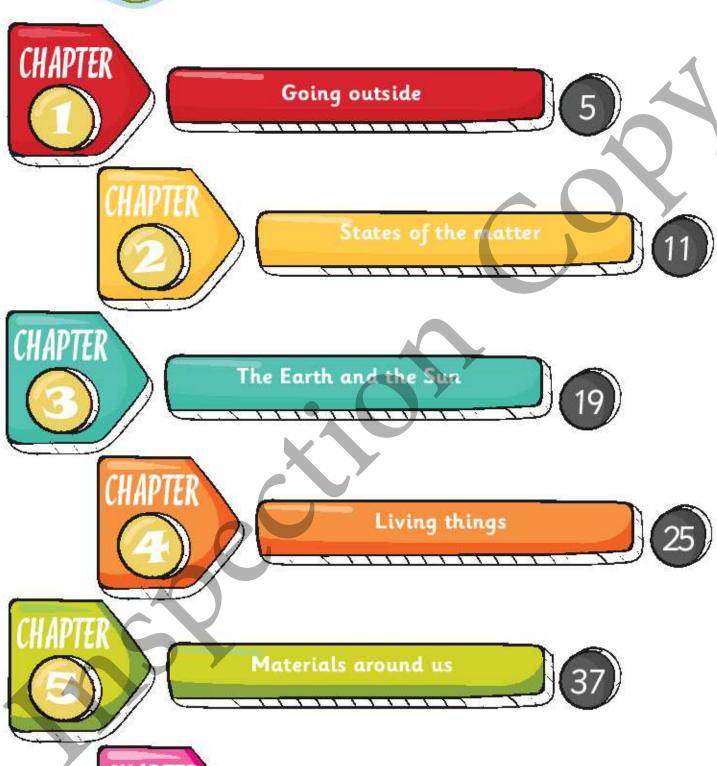
The Primary Science book has been developed to match the Cambridge International Examinations Primary Science curriculum framework. It is a fun, flexible and easy to use course that gives both learners and teachers the support they need. In keeping with the aims of the curriculum itself, it encourages learners to actively engage with the content, and develop enquiry skills as well as subject knowledge. The content pages contain many images and questions that you can use as a basis for class discussions. The emphasis in this stage is on linking what learners know about everyday life to scientific ideas.

Throughout the book, you will find ideas for practical activities which will help learners to develop their Scientific Enquiry skills as well as introduce them to the thrill of scientific discovery.





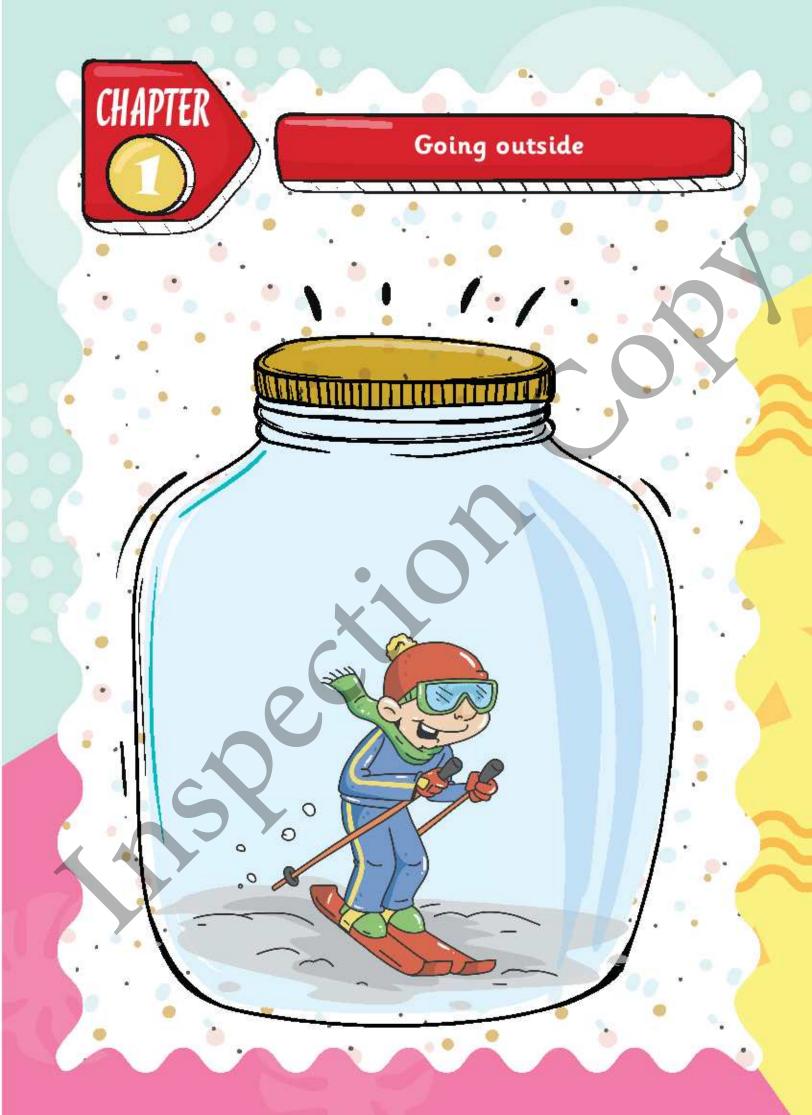






Our five senses

43)



What learners will learn and reinforce

The activities in this chapter give learners practice in the following topics:

Торіс	In this topic, learners will:	
1.1. Our weather	identify different types of weather.	
1.2. Today's weather	practise using weather vocabulary.	

Word bank

1	temperature	2	rainy	3	windy	4	sunny	5	cloudy
6	cold	7	warm	8	frosty	9	snowy	10	weather

1.1. Our weather

Each day the temperature, wind and amount of sun and rain can change. This is our weather.

The weather makes us think about what we do and what we wear:



Look at the pictures.

Why are the children wearing these clothes?

🗱 1.2. Today's weather

Talk about the weather today.

Is it the same as yesterday?
Is it sunny or cloudy?
Is it warm or cold? Is it frosty?
Is there any rain, snow or hail?
How windy is it?

You will need: large poster paper a digital camera.



Make a poster to show what the weather is like.



The weather is not always the same.

Look at the picture. You can see a rainbow when it rains and the Sun is shining at the same time.



What is the weather like?

Look at the table below. What is the weather like in each picture? What is the temperature? Hot, warm or cold?

and the second s	weather	temperature	Look and learn
	snowy	cold	Sunz,y
			rainy
			cloudy
			snowy
			windy
			stormy





What learners will learn and reinforce

The activities in this chapter give learners practice in the following topics:

Торіс	In this topic, learners will:
2.1. What is a solid?	recognise what a solid is and name a few examples.
2.2. What is a liquid?	recognise what a liquid is and name a few examples.
2.3. What is a gas?	recognise what a gas is and name a few examples.

Word bank

1	solid	2	television	3	sofa	4	lamp	5	radio
6	chair	7	table	8	carpet	9	definite	10	shape
11	rough	12	smooth	13	liquid	14	container	15	water
16	gas	17	air						



2.1. What is a solid?

This picture shows objects with their names.



They are all solids.

Each solid has a definite shape.

What solids do you see?



Point to the objects as each is named.

A solid has a definite shape.



Complete the table.

✓	solid	rough	smooth



2.2. What is a liquid?

This picture shows liquid.



What is the liquid that you see? Water.

What is in the water? A boy and a sponge.

What is in the bathtub? Water.

What has changed about the water? The shape.

A liquid takes the shape of its container. Water is a liquid.



Circle the liquids.



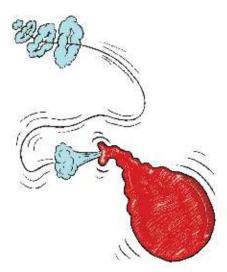
🗱 2.3. What is a gas?

This picture shows that air is all around you



You cannot see air, but you can see how it makes things move.



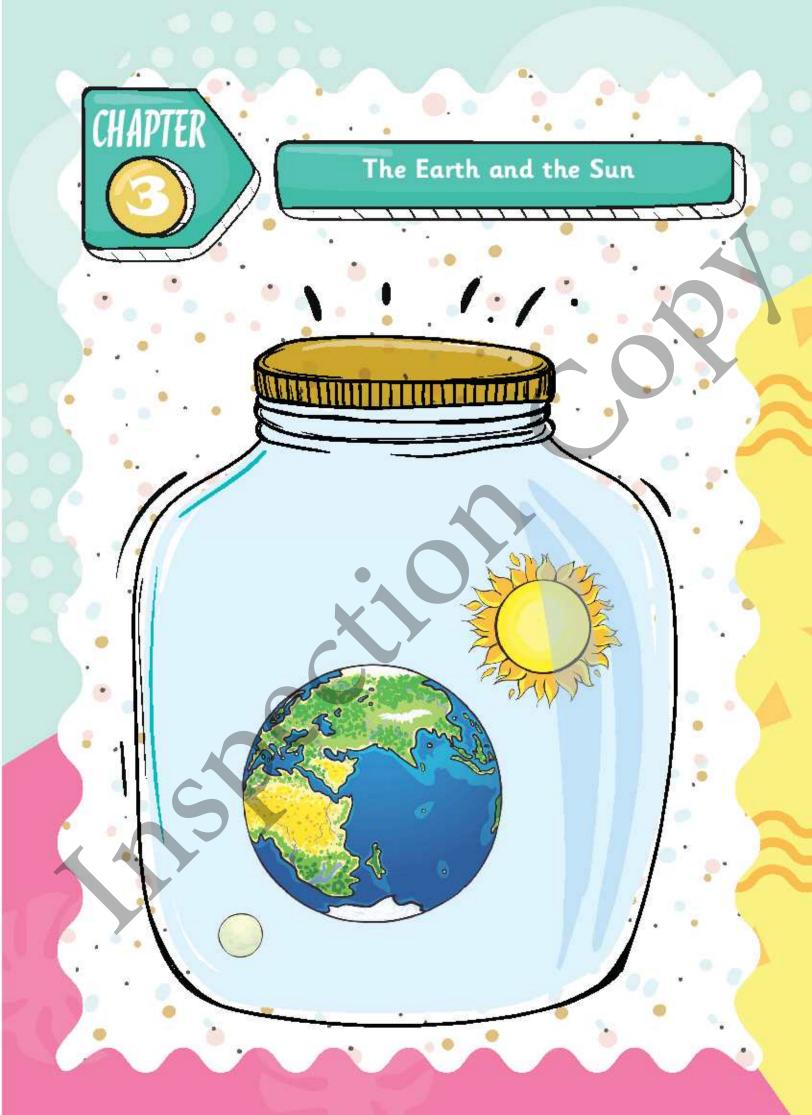


A gas takes the shape of its container. Air is made from gases.

Match.







What learners will learn and reinforce

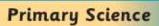
The activities in this chapter give learners practice in the following topics:

Торіс	In this topic, learners will:
3.1. Light sources	recognise that there are many light sources, for example the Sun, and that they all make light.
3.2. Making shadows	explore how shadows are formed.
3.3. Day and night	explore how we get day and night because the Earth spins.

Word bank

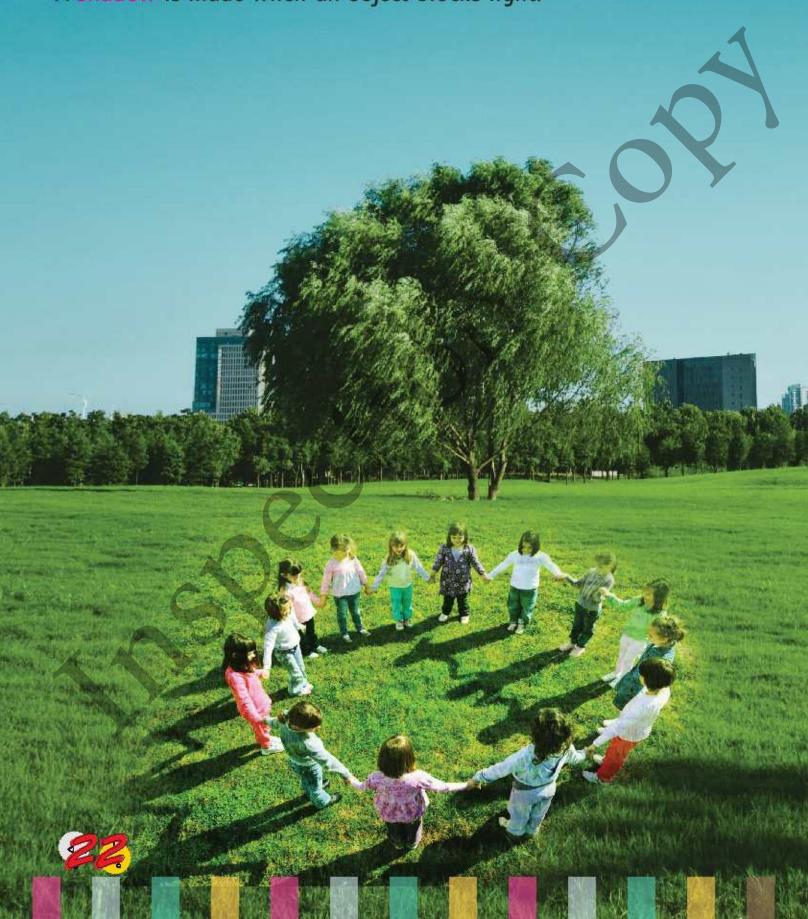
1	light	2	source	3	the Moon	4	the Sun	5	reflect
6	shadow	7	block	8	object	9	spin	10	day
11	night	12	dark		U				





🗱 3.2. Making shadows

A shadow is made when an object blocks light.





🗱 3.3. Day and night

Light from the Sun comes to the Earth.

Some of the Earth is in the light but some of the Earth is in the dark.



The Earth spins so all parts of the Earth have time in the light and time in the dark.

We call these times day and night.





The Earth is like a spinning ball!

The boys have made a model to show day and night.

The ball is planet Earth and the torch is the Sun.

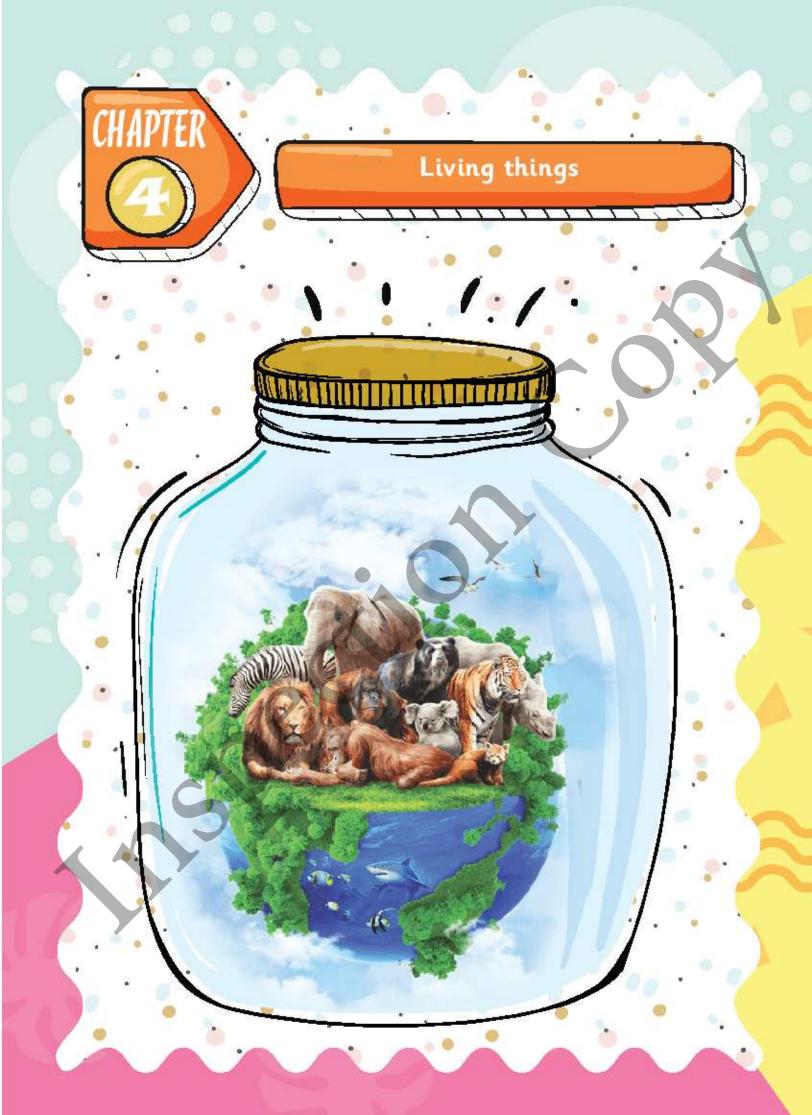


- Is it day or night at the X?
- What will happen to the X as the boys slowly turn the ball in the direction of the arrow?

Think about it!

If the Earth did not spin, what would happen to day and night if you lived on the dark side?





What learners will learn and reinforce

The activities in this chapter give learners practice in the following topics:

Topic	In this topic, learners will:				
4.1. Living and non-living	identify the seven needs of living things.				
4.2. Growth	learn the stages of growth in humans, plants and animals.				
4.3. How do animals move?	compare the ways different animals move.				
4.4. Animals habitats	identify where different animals live.				
4.5. Sorting living things	sort living things into groups.				

Word bank

		_						,	
1	use	2	oxygen	3	sense	4	produce	5	young
6	need	7	food	80	water	9	move	10	grow
11	make	12	waste product	13	baby	14	toddler	15	child
16	teenager	17	ødult	18	seed	19	plant	20	develop
21	become	22	fully grown	23	chick	24	chicken	25	come out
26	tadpole	27	egg	28	frog	29	life cycle	30	bird
31	fly	32	kangaroo	33	hop	34	turtle	35	crawl
36	horse	37	run	38	fish	39	swim	40	goat
41	walk	42	habitat	43	home	44	desert	45	mountain
46	town	47	sea	48	rainforest	49	sort	50	fur
51	scale	52	feather						

🗱 4.1. Living and non-living



Do you agree with what the learners say? Which things are alive?

Which things in these pictures are alive?



Everything that is alive

- uses oxygen
- has senses
- can produce young
- needs food and water
- **moves**
- n grows
- nroduces waste products



Living or non-living?

Look at the pictures. Are these things living or non-living?



Think about it!

A car can move but it is non-living.





It's alive!

Observe things outside.

Fill in the table. Two examples have been given, but you must decide if they are living or non-living.



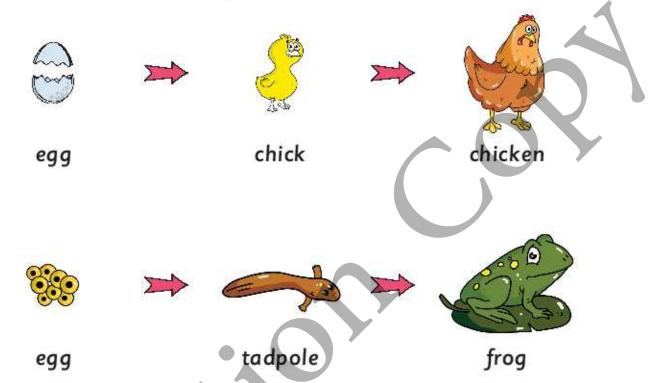
l observe a	mango tree	bicycle		
needs oxygen	✓	ж		
needs food and water	✓	ж		
can move	✓	*		
has senses	V	×		
can make young		ж		
grows		x		
makes waste products	✓	ж		
living or non-living?				



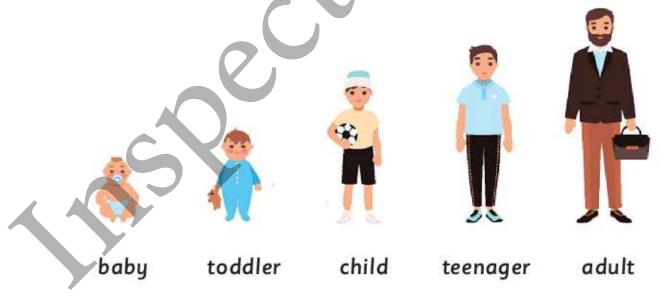
🗱 4.2. Growth

Animals grow in stages.

How do animals change and grow?

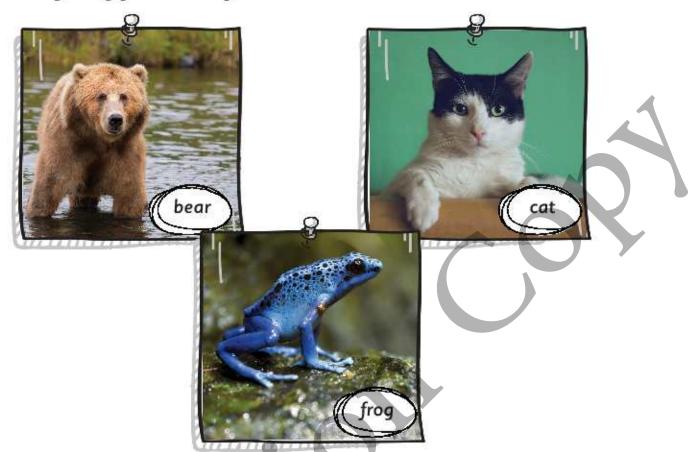


Look at these pictures, where are you now in the cycle?



All living things have young. The young grow. An adult is fully grown.

Name the young for each of these animals.



Plants grow in stages.



A seed is planted.

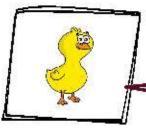
The seed begins to grow.

A young plant develops.



The young plant becomes a fully grown, flowering plant.





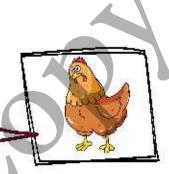
This picture shows a chick.

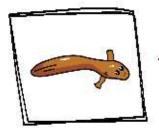
A chick is a baby chicken.

The chick comes out of an egg.



The chick grows and becomes a chicken.





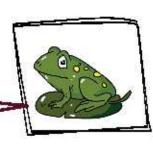
This picture shows a tadpole.

A tadpole is a baby frog.

The tadpole comes out of an egg.

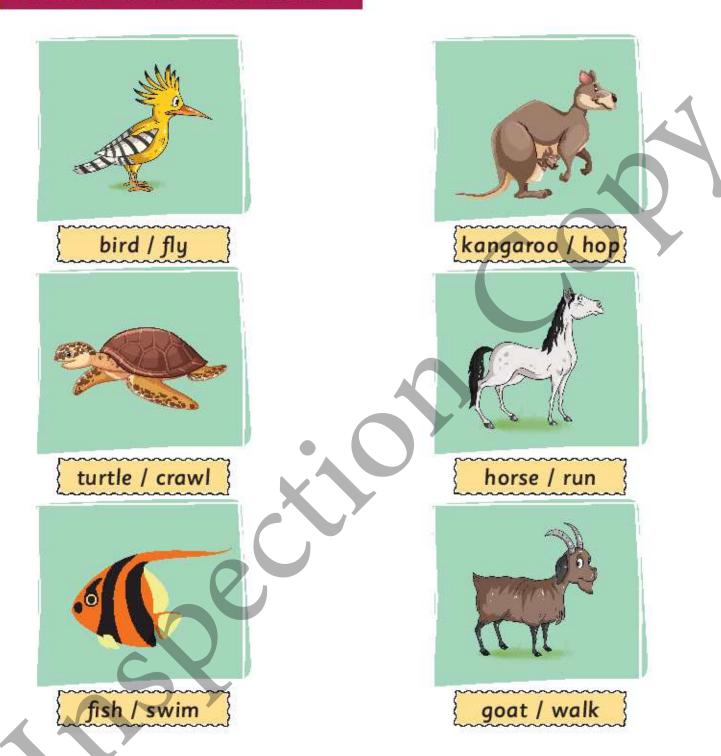


The tadpole grows and becomes a frog.



- Animals change as they grow.
- The life cycle of a frog is egg, tadpole and frog.
- The life cycle of a chicken is egg, chick and chicken.
- Animals develop in differents ways.

4.3. How do animals move?

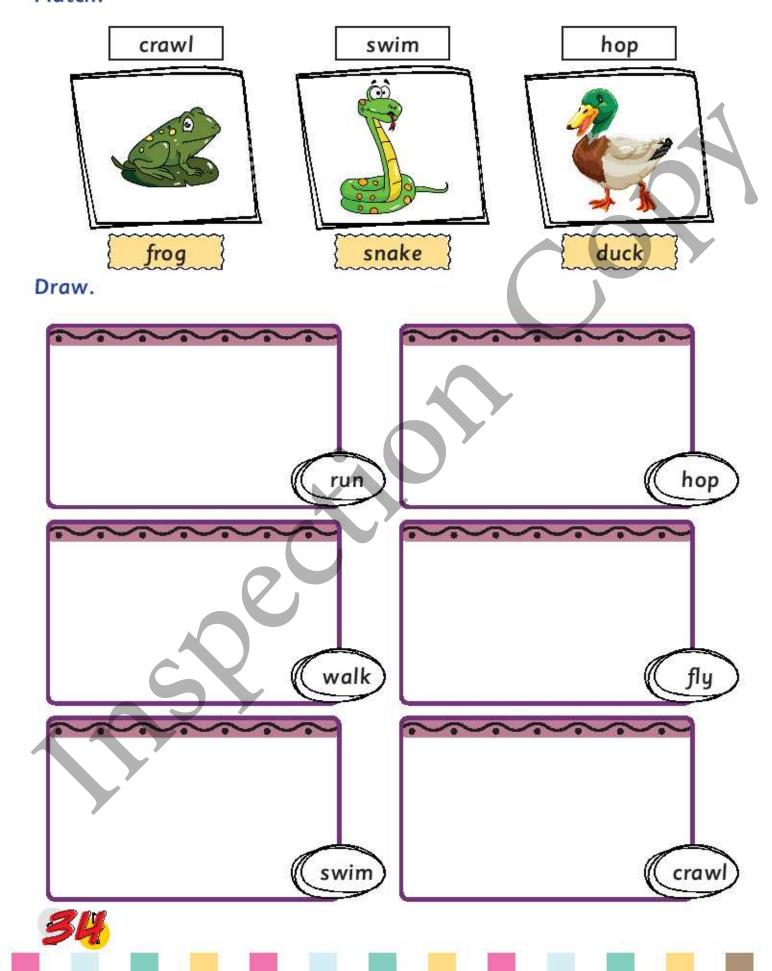


Some animals run, fly, walk, swim, crawl and hop.

- Animals can move from place to place.
- Different animals move in different ways.
- Some body parts help animals move.

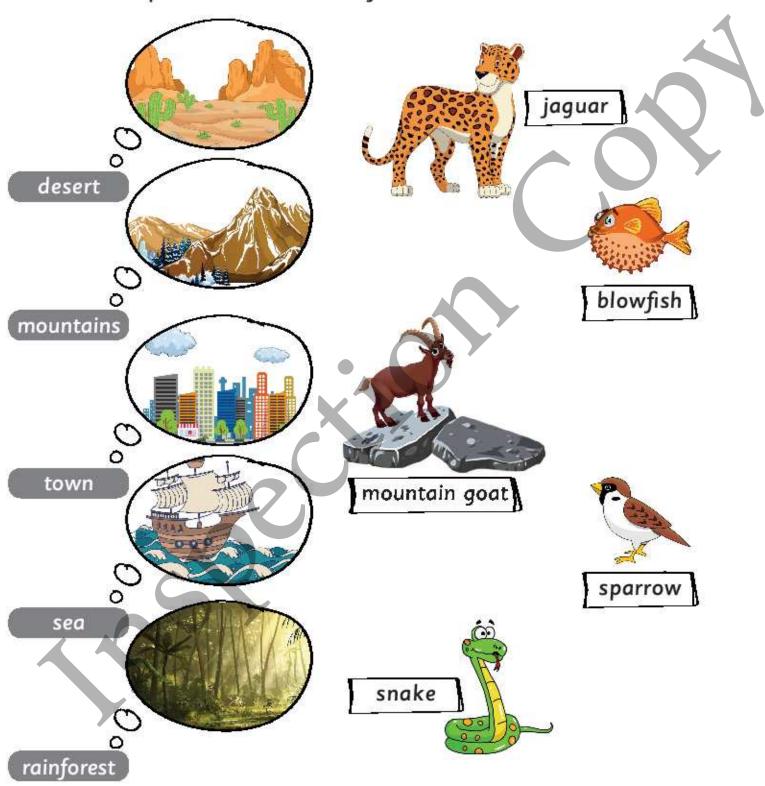


Match.



🗱 4.4. Animal habitats

A habitat is the home of an animal. Animals live in different places. Look at the pictures. Draw a line from the habitat to the animal.



🗱 4.5. Sorting living things

Scientists who study living things need to be able to group them.

Help the zookeeper sort the animals into the correct group.



Think about different animals and fill in the blanks.

......have fur.
..... have scales.
..... have feathers.





What learners will learn and reinforce

The activities in this chapter give learners practice in the following topics:

Торіс	In this topic, learners will:	
5.1. Natural materials	identify the natural materials.	
5.2. Changing materials	explore some ways to change the shape of materials.	

Word bank

1	natural	2	material	3	nature	4	cotton	5	wood
6	wooden	7	slate	8	plastic	9	paper	10	glass
11	man-made	12	bend	13	twist	14	stretch	15	squash



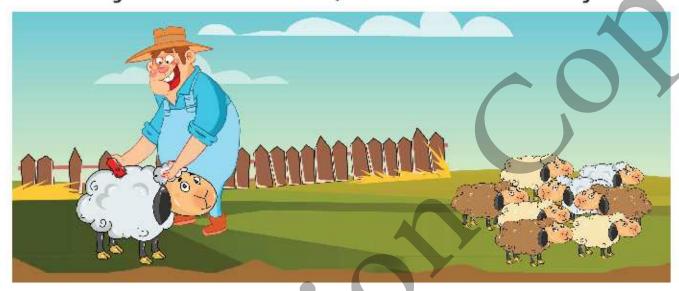
🔆 5.1. Natural materials

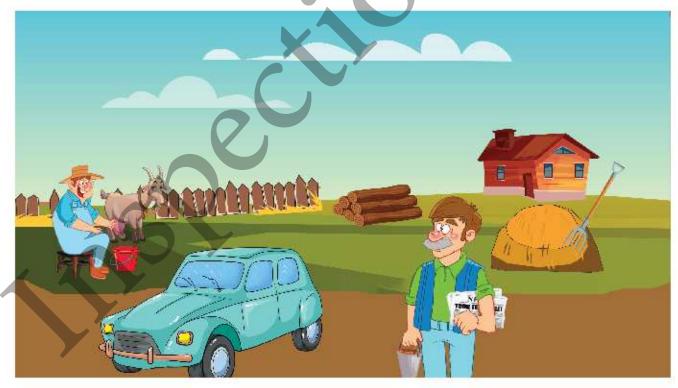
Rocks are natural materials.

They come from the ground.

Natural materials come from nature.

There are many other natural materials, like rubber. Rubber comes from a tree.





What natural materials can you see in these pictures?



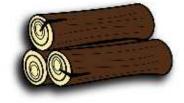
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Here are some other natural materials.

These materials are man-made.
They are made by people.



cotton



wood



slate



paper



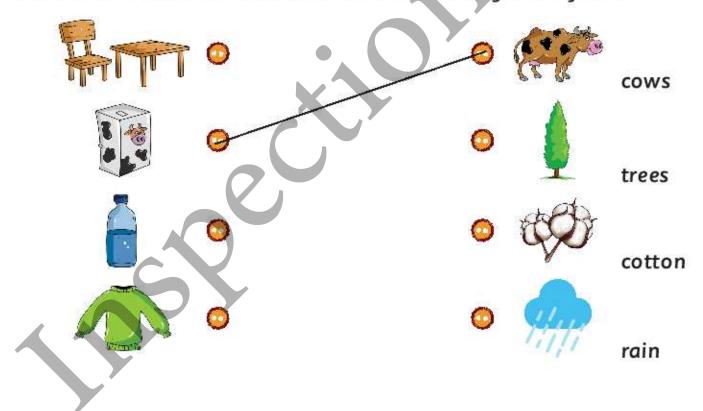
glass



plastic

Where do natural materials come from?

Match these natural materials with where they come from.



Think about it!

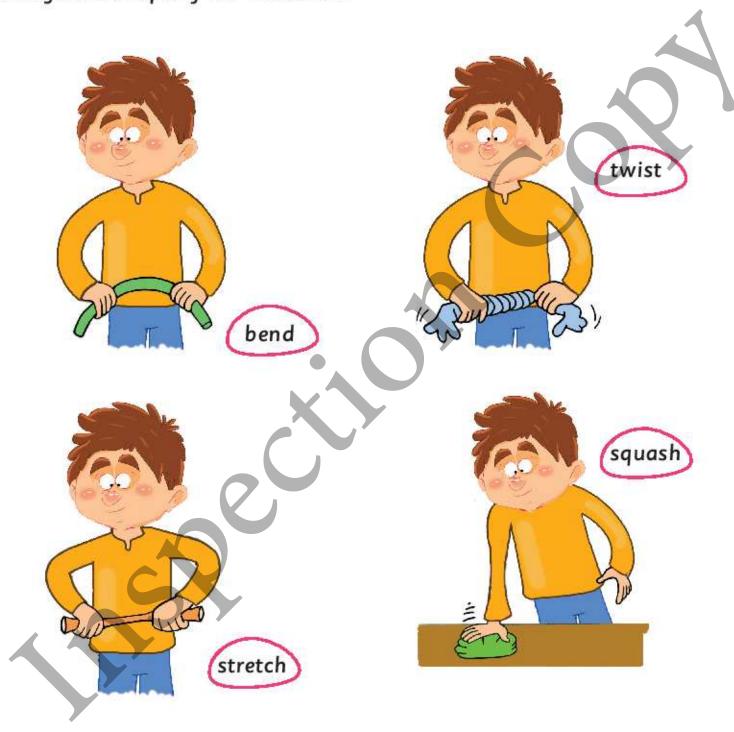
Paper is not a natural material. People make paper from wood.





🗱 5.2. Changing materials

You can bend, twist, stretch, and squash most materials. This will change the shape of the materials.





Primary Science

There are a lot of natural and man-made materials in our world.







What learners will learn and reinforce

The activities in this chapter give learners practice in the following topics:

Торіс	In this topic, learners will:
6.1. Hearing and touch	link each sense to the correct sense organ. identify times that we use our senses.
6.2. Taste and smell	test their sense of smell and taste.
6.3. Sight	learn about parts of the human eye. learn about the eyesight of different animals.

Word bank

1	sense	2	smell	3	sight	4	touch	5	hearing
6	taste	7	sweet	8	sour	9	bitter	10	salty
11	pleasant	12	unpleasant	13	eyelash	14	pupil	15	eyelid
16	good	17	poor	18	eyesight				

🗱 6.1. Hearing and touch

Our five senses

Look at Anita, draw arrows from the labels to the parts of her body that give her each sense.



Which sense would I use?

Look at each picture. Would you use the sense of hearing or touch?



I would use my sense



I would use my sense

of



I would use my sense



I would use my sense

of



I would use my sense



I would use my sense

of



Primary Science

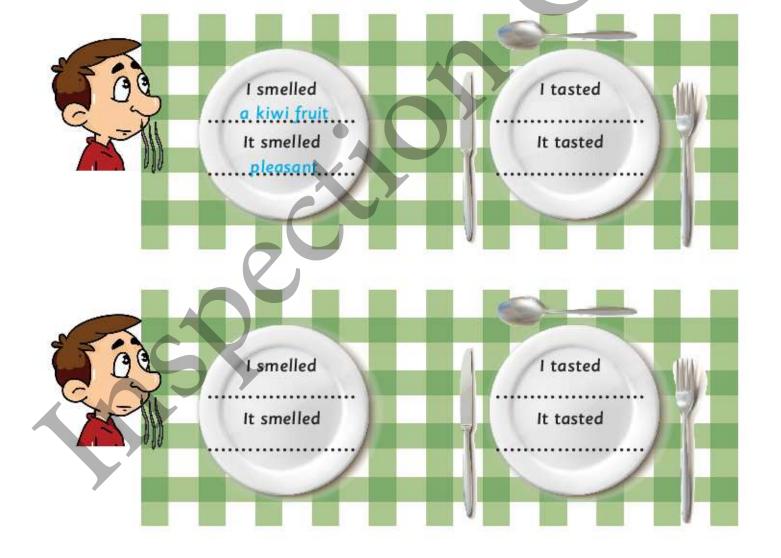
🛞 6.2. Taste and smell

Our senses of smell and taste often work together. They help us to avoid eating bad food.

Take care when smelling things in case they are dangerous. Always smell from at least 10 cm away.

Smell and taste!

Find five foods. Record how they smell and taste.



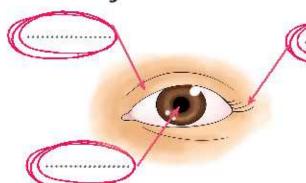




Parts of the eye

eyelash | pupil eyelid

Use the key words to label the picture of the eye.



Look after your eyes. Never put things in your eye and never look at the sun.





These animals use their very good eyesight for hunting prey.



This mole dose not have very good eyesight. Instead, the mole uses his nose to find his way around.

Good and poor eyesight?

Choose an animal to fill each gap.

A/ An has very good eyesight.

A/ An has poor eyesight.

Note















