

Primary Science

Primary Science has been written and developed by Ministry of General Education and Instruction, Government of South Sudan in conjunction with Subjects experts. This course book provides a fun and practical approach to the subject of Science, and at the same time imparting life long skills to the pupils.

The book comprehensively covers the Primary 1 syllabus as developed by **Ministry of General Education and Instruction.**

Each year comprises of a Pupil's Book and teacher's Guide.

The Pupil's Books provide:

- Full coverage of the national syllabus.
- A strong grounding in the basics of Science.
- Clear presentation and explanation of learning points.
- A wide variety of practice exercises, often showing how Science can be applied to real-life situations.
- It provides opportunities for collaboration through group work activities.
- Stimulating illustrations.



All the courses in this primary series were developed by the Ministry of General Education and Instruction, Republic of South Sudan. The books have been designed to meet the primary school syllabus, and at the same time equiping the pupils with skills to fit in the modern day global society.

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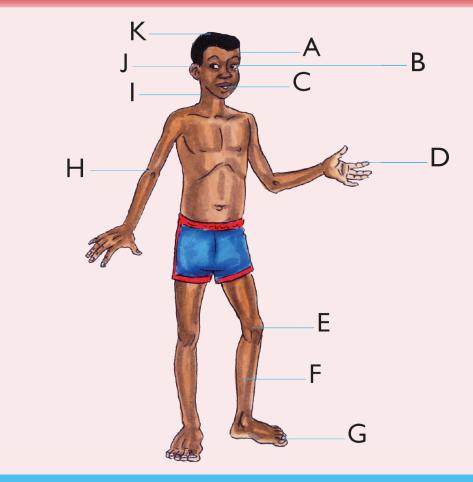
Primary Science

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Pupil's Book



Pupil's Book



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South Sudan

PRIMARY



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FOREWORD

I am delighted to present to you this textbook, which is developed by the Ministry of General Education and Instruction based on the new South Sudan National Curriculum. The National Curriculum is a learner-centered curriculum that aims to meet the needs and aspirations of the new nation. In particular, it aims to develop (a) Good citizens; (b) successful lifelong learners; (c) creative, active and productive individuals; and (d) Environmentally responsible members of our society. This textbook, like many others, has been designed to contribute to achievement of these noble aims. It has been revised thoroughly by our Subject Panels, is deemed to be fit for the purpose and has been recommended to me for approval. Therefore, I hereby grant my approval. This textbook shall be used to facilitate learning for learners in all schools of the Republic of South Sudan, except international schools, with effect from 4th February, 2019.

I am deeply grateful to the staff of the Ministry of General Education and Instruction, especially Mr Michael Lopuke Lotyam Longolio, the Undersecretary of the Ministry, the staff of the Curriculum Development Centre, under the supervision of Mr Omot Okony Olok, the Director General for Quality Assurance and Standards, the Subject Panelists, the Curriculum Foundation (UK), under the able leadership of Dr Brian Male, for providing professional guidance throughout the process of the development of National Curriculum and school textbooks for the Republic of South Sudan since 2013. I wish to thank UNICEF South Sudan for managing the project funded by the Global Partnership in Education so well and funding the development of the National Curriculum and the new textbooks. I am equally grateful for the support provided by Mr Tony Calderbank, the former Country Director of the British Council, South Sudan; Sir Richard Arden, Senior Education Advisor of DfID, South Sudan. I thank Longhorn and Mountain Top publishers in Kenya for working closely with the Ministry, the Subject Panels, UNICEF and the Curriculum Foundation UK to write the new textbooks. Finally, I thank the former Ministers of Education, Hon. Joseph Ukel Abango and Hon. Dr John Gai Nyuot Yoh, for supporting me, in my previous role as the Undersecretary of the Ministry, to lead the Technical Committee to develop and complete the consultations on the new National Curriculum Framework by 29 November 2013.

The Ministry of General Education and Instruction, Republic of South Sudan, is most grateful to all these key stakeholders for their overwhelming support to the design and development of this historic South Sudan National Curriculum. This historic reform in South Sudan's education system is intended to benefit the people of South Sudan, especially the children and youth and the future generations. It shall enhance the quality of education in the country to promote peace, justice, liberty and prosperity for all. I urge all Teachers to put this textbook to good use.

May God bless South Sudan. May He help our Teachers to inspire, educate and transform the lives of all the children and youth of South Sudan.

Maulter

Deng Deng Hoc Yai, (Hon.) Minister of General Education and Instruction, Republic of South Sudan

Table of contents

Unit 1 Parts of the body and hygiene	.1
1.1 Parts of the human body	
1.2 Uses of bones, joints and muscles in human beings	.7
1.3 Using toilets and latrines	.14
1.4 Washing hands	. 20
Unit 2 Plants and animals	. 22
2.1 Plants	. 22
2.2 Differences and similarities in plants from local and other parts of the world	. 33
2.3 Reasons why animals feed on some plants and not others	
2.4 Plants or parts of plants children like and dislike	
2.5 Animals	
Unit 3 Our five senses	.43
3.1 Sources of light	. 43
3.2 Sense of seeing	
3.3 Sources of sound	
3.4 Sense of hearing	. 53
3.5 Sense of taste	
3.6 Sense of smell	. 58
3.7 Sense of touch	. 60
Unit 4 Weather	. 64
4.1 Weather changes	. 64
4.2 Recording weather changes	. 66
4.3 How to tell weather conditions	
4.4 Air around us	
4.5 Effects of moving air	
4.6 Uses of moving air	
J	



Unit 5 Soil	75
5.1 Collecting soils from different places	
5.2 Mixing soils with water	
5.3 Modelling with soil	
Unit 6 Water and wheels	
6.1 Sources of water	
6.2 Uses of water	
6.3 Using water well	
6.4 Measuring water	
6.5 Floating and sinking	



Parts of the body and hygiene

<u>1.1</u> Parts of the human body

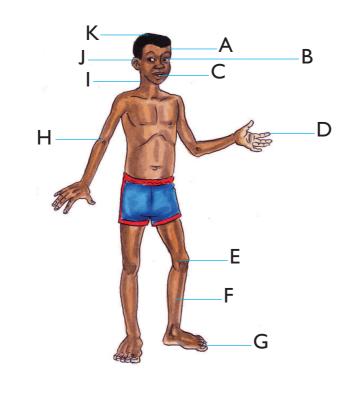
Activity 1.1

In pairs

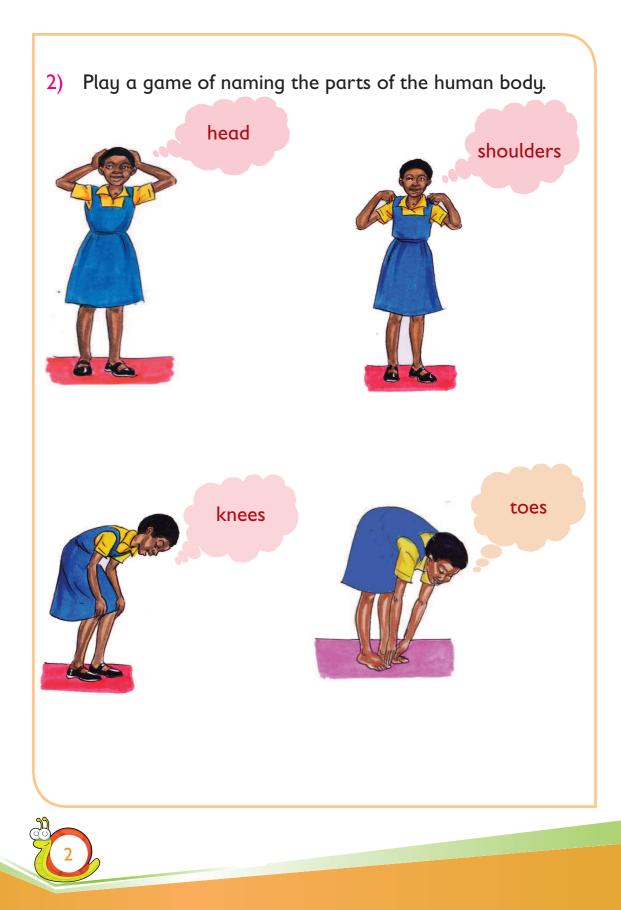
UNIT

1

1) Name the parts of the body shown below.







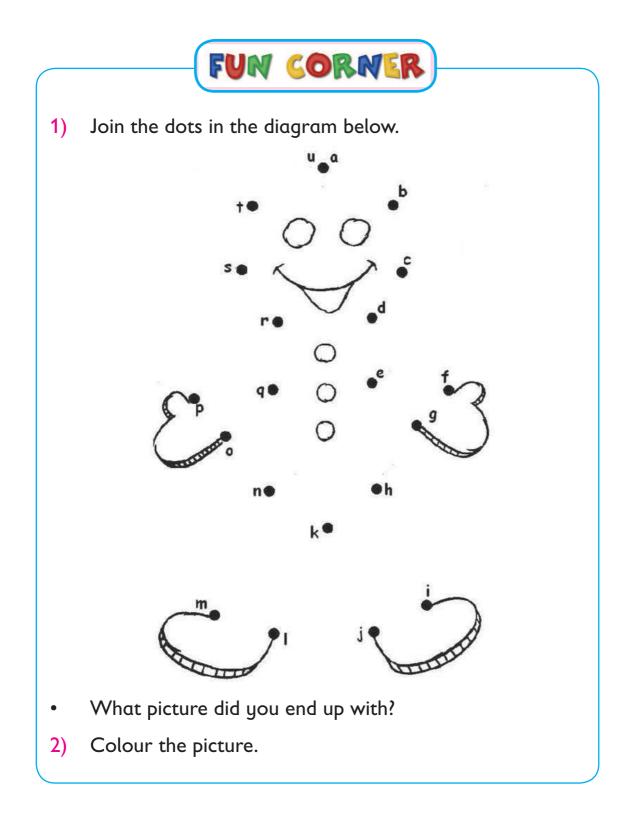






• Our body is made up of the head, neck, stomach, arms and legs.







		Check your ا	progress 1a
1)			of your body parts and fill the blank
	spac	es with correc	t answers.
	(a)	I have	legs.
•	(b)	I have	hands.
•	(c)	I have	toes.
•	(d)	I have	ears.
•	(e)	I have	fingers.
2)	Whi	ch part of the	body can move?
3)	Who	it enables our	body parts to move?
•••••			



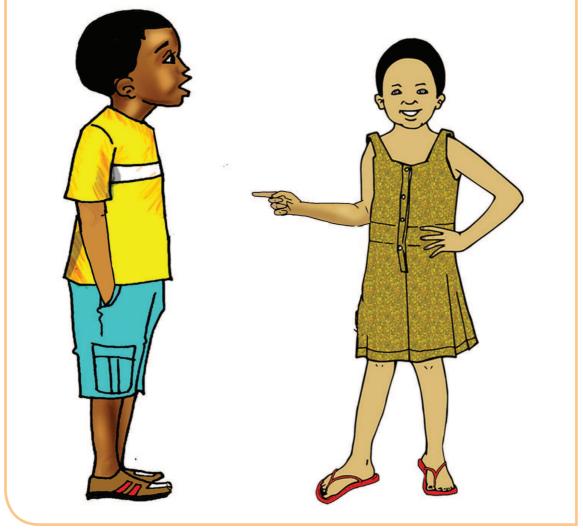
1.2 Uses of bones, joints and muscles in human beings



Activity 1.2

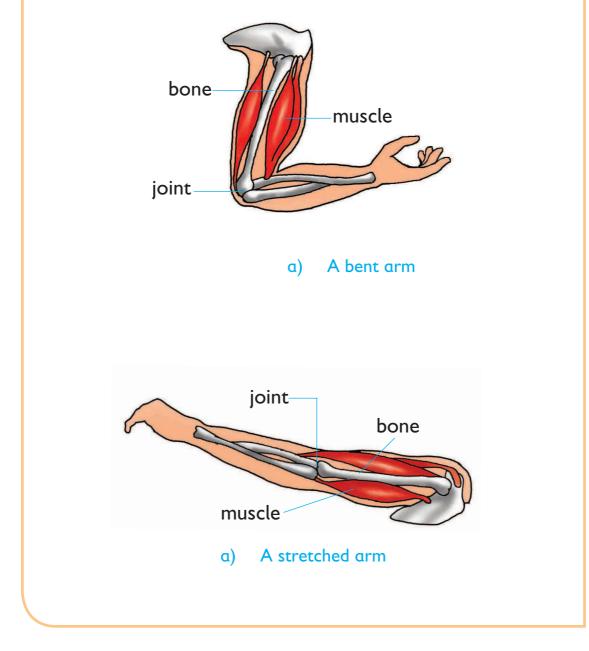
In pairs

 Use a string to measure the length of the arms and legs of your partner when stretched and when bent.

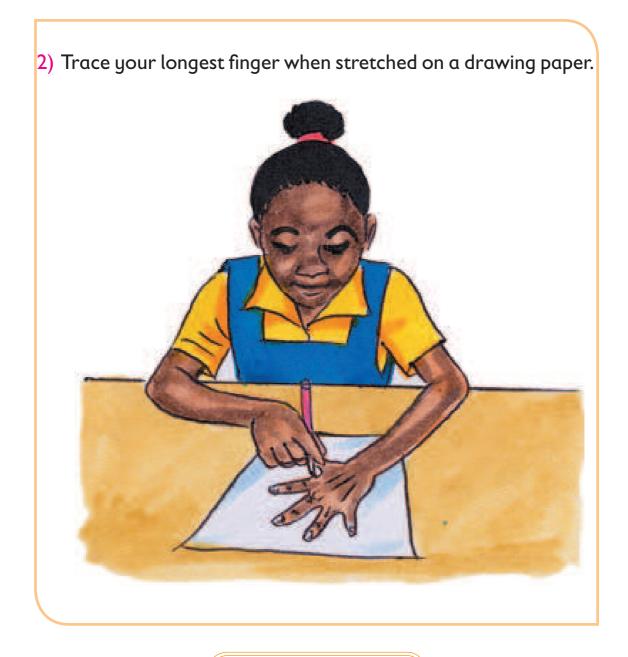




- What makes your arm and legs to stretch or bend?
- How are you able to run, jump, skip or walk?







Learning point

• Bones and joints work together with muscles to help in movement.

FUN CORNER

- 1) Get cartons with human pictures.
- 2) Cut out the parts of the human body using scissors.
- 3) Join the body parts using a string.
 - Are the body parts moving?

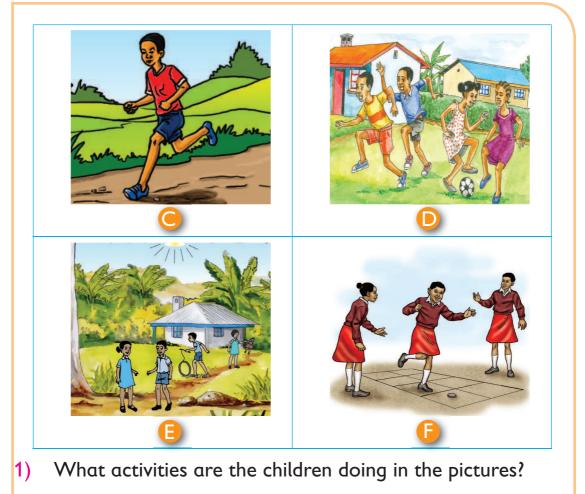




Importance of healthy exercises







2) Why are the activities important?

Learning point

• Exercise is good for our health.



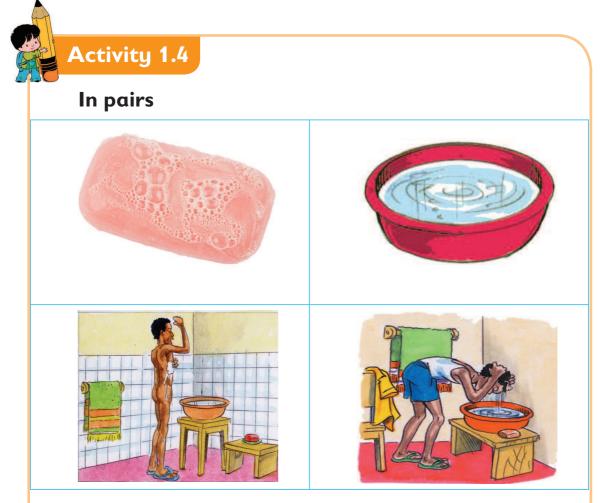




- 1) Using clay or plasticine to model a person walking.
- 2) Can the arms or legs move?



How to keep the body clean



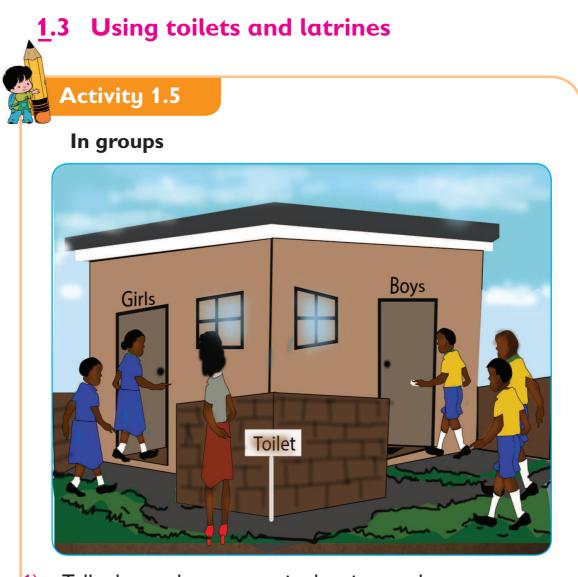
Discuss these questions with your friends.

- 1) How will you use soap and water to keep your body clean?
- 2) Why do you need to keep your body clean?

Learning point

• We keep our body clean by using soap and water.





- 1) Talk about what you see in the picture above.
- 2) Where do you go when you feel pressed?

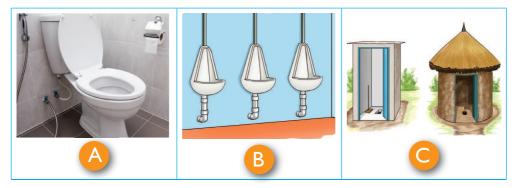
Learning point

• **Toilets**, **latrines** and **urinals** are places where we go to relieve ourselves.

Activity 1.6

In groups

- 1) Visit the toilets or latrines and urinals at your school.
- 2) Can you identify the types of toilets found in your school or home?



- 3) Which one is found:
 - a) At your school?
 - b) At your home?

Learning point

• There are three types of toilets: pit latrines, flush toilets (water closet) and urinals. We should always use them properly while in school and at home.



Proper use of latrines and toilets



Activity 1.7

In pairs









- 1) Who used the latrine and toilet properly?
- Talk to your friend about how you use latrines at home and school.





Role play with a friend how to use a pit latrine or toilet properly.

Urinals

Urinals are only used by boys or men to pass urine.



Using a trench urinal



Boys to role play using urinals.



Always wash your hands after visiting the toilet.



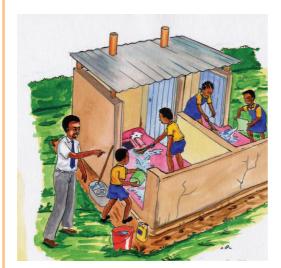
Good habits when using toilets, latrines and urinals



Activity 1.8

In groups

1) What is happening in each picture?









• Say whether they are good or bad habits.



	Remem	ber	~
	Always cle	ean the toilets, la	trines and urinals
	to keep of	f dirt and germs	· ·
Chec	k your pro	gress 1c	•••••••••••••••••••••••••••••••••••••••
	in the b bits when us	•	ner these are good
Habit		Good habit	Bad habit
 a) Knocking the of a toilet be entering. 			
 b) Disposing c in flush toile then flushin toilet. 	et bowls		
2) What show bad?	uld we do w	hen the toilets a	re dirty and smells
	things used	l in cleaning the	latrines and toilets
Name two			

G

19

I.4 Washing hands



Activity 1.9

In groups



- 1) Your teacher will help you read words in the picture.
- 2) Why do you think washing hands after visiting the latrine is important?

Learning point

• It is important to keep our hands clean. Dirty hands contain germs that cause diseases to us.

FUN CORNER

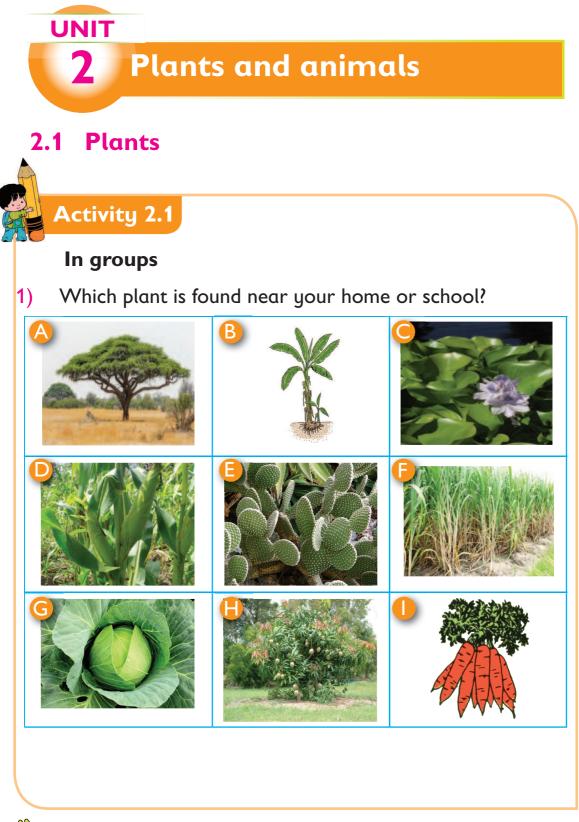
Role play washing hands with your friend using soap and clean water.

Remember

We should always wash our hands using soap and clean water.



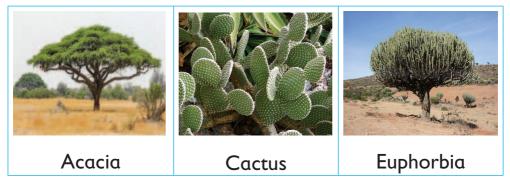
3) Which things make our hands dirty?



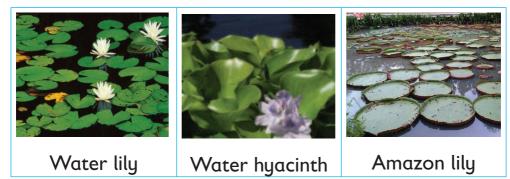
- 2) Which of the plants in the pictures do you know?
- Play a game of naming the plants and where they are found.
- Create a garden within the school compound with different types of plants found in different regions.

Learning point

- There are many types of plants.
- a) These plants grow in dry areas.



b) These plants grow in cool places with a lot of water.



c) Some plants grow in our gardens and we use them as a source of food. These plants include:



d) Some plants give us food. They include:



e) Some plants produce flowers that make our homes look good and beautiful. They include:

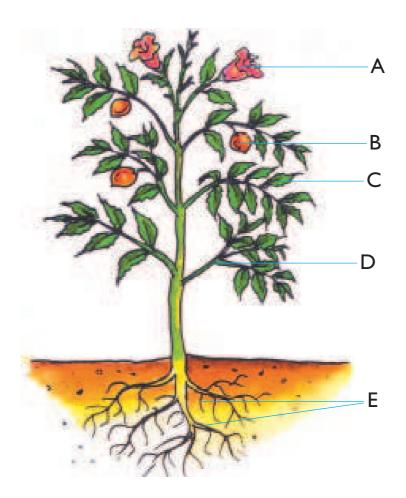






In pairs

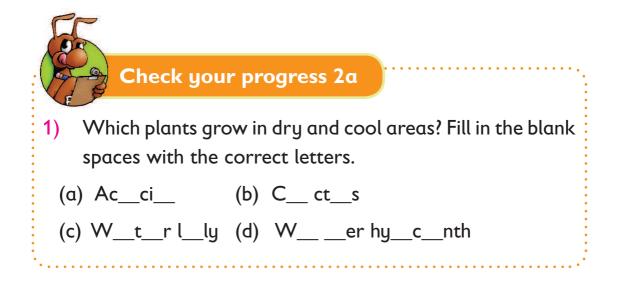
1) Name the parts of a plant shown below.







Draw a plant and name all its parts.





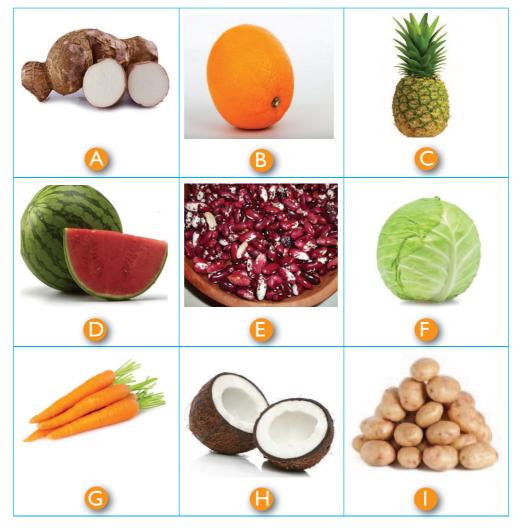
Plants that we eat



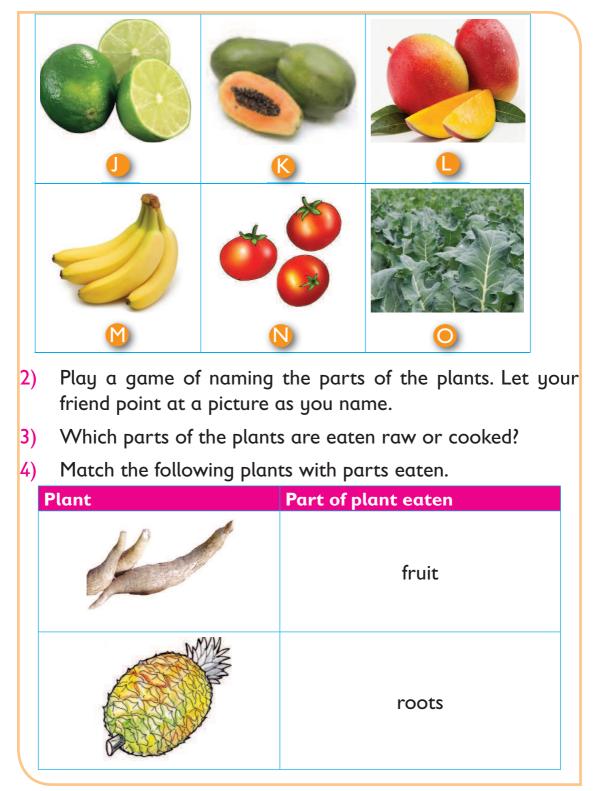
Activity 2.3

In pairs

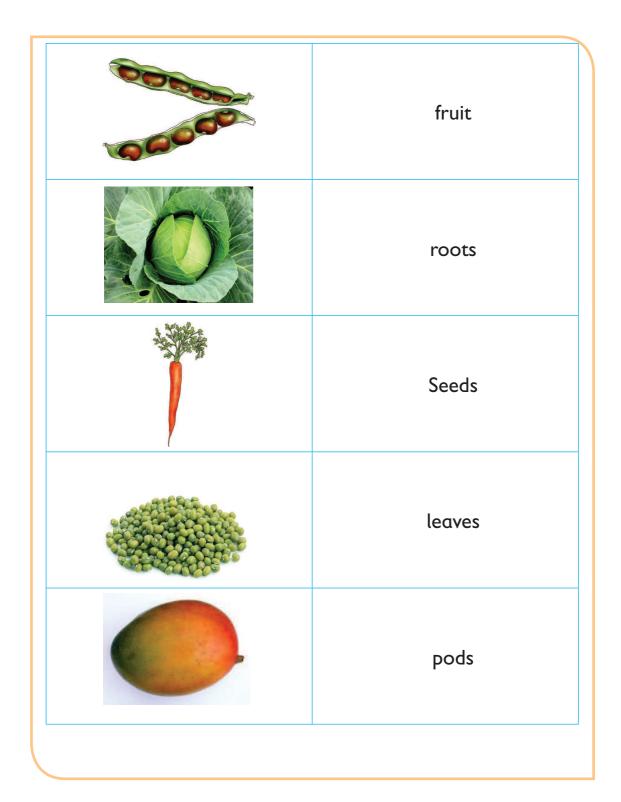
1) On which part of the plant do we get these foods?













Plants we cook before eating and those eaten raw



Activity 2.4

In groups

1) Pick plants that you eat raw and those eaten when cooked.

Pumpkin	Beans	Potatoes
Mangoes	Pawpaws	Watermelon
		250
Sugar cane	Yam	Orange



 Write down the plants cooked before eating and those eaten raw.

Eaten when raw
a
b
c
d



- Plants that we cook before eating are beans, maize, pumpkins, potatoes and arrow roots.
- Plants we eat without cooking(raw) include; bananas, pawpaws, coconuts, carrots, pineapples, mangoes, oranges and watermelons. Most fruits are always eaten raw.



Remember

Some plants are not eaten. They are harmful to our health.

FUN CORNER

Draw and colour three types of plants we eat without cooking. (raw)

Check your progress 2b

1) Complete the table below. Choose your answer from the words given below.

Plants which we eat	Plants we do not eat		
a	a		
b	b		
c	C		
d	d		
e	e		
f	f		
g	g		
Papyrusreeds, peas, banan	as, cactus, flower, maize, nappiergrass,		
sisal, beans, hibiscus, arrow roots, acacia, carrots			

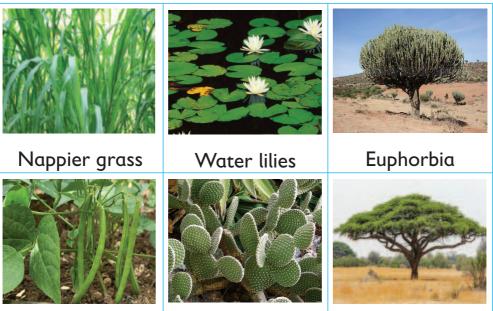
32

2.2 Differences and similarities in plants from local and other parts of the world



Activity 2.5

In groups



Beans

Cactus

Acacia

- 1) Talk about the plants in the pictures above.
- 2) Where do you find these plants?

Learning point

• Plants grow in different areas due to the weather conditions of the place.



FUN CORNER

Draw and colour plants that grow around your home.

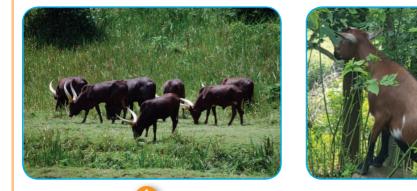




2.3 Reasons why animals feed on some plants and not others



In pairs

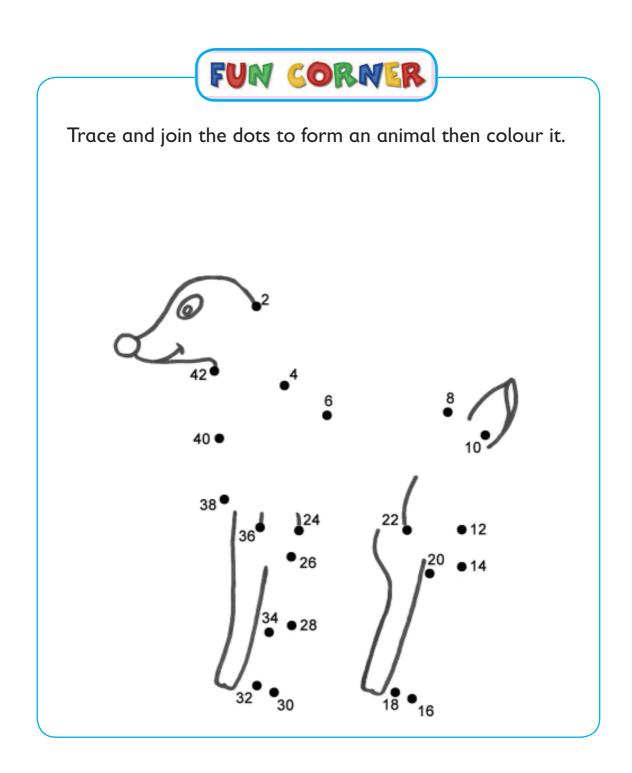




2) Which plants do the animals, for example, cows or goats feed on?



- Animals do not eat some plants because they are poisonous to the animals.
- Animals have different feeding habits.



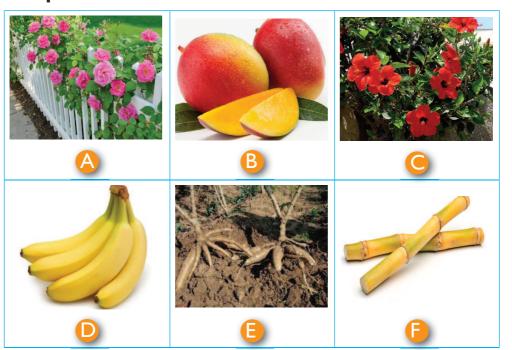


2.4 Plants or parts of plants children like and dislike



Activity 2.7

In pairs



- 1) Talk about the pictures above with a friend.
- 2) Which plants do you like or dislike? Why?



 Come up with a list of plants you like or dislike in the following table.

a)	
۳)	
b)	
c)	
d)	
e)	
	c) d)

FUN CORNER

Sing the song below.

We like flowers because they are beautiful.

We like leaves because we play with them.

We like fruits because they are sweet.

We dislike roots because they are dirty.



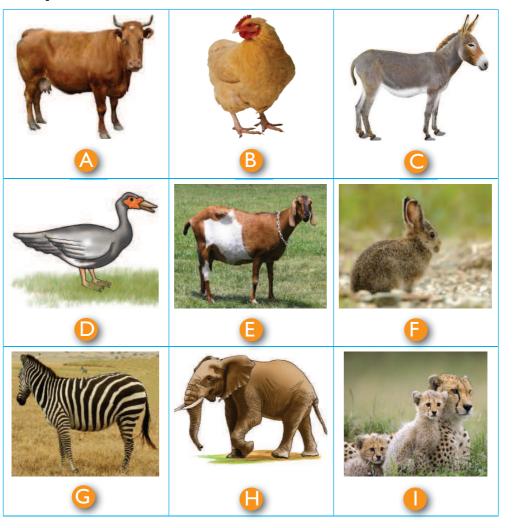
2.5 Animals

How animals around the school differ from others in the world



Activity 2.8

In pairs





- 1) Name the animals shown in the previous page.
 - Which animals are found at your home?
 - Which animals are found in the forest?

- Animals found at home are called **domestic animals**.
- Animals found in the forest are called **wild animals**.

Importance of plants and animals



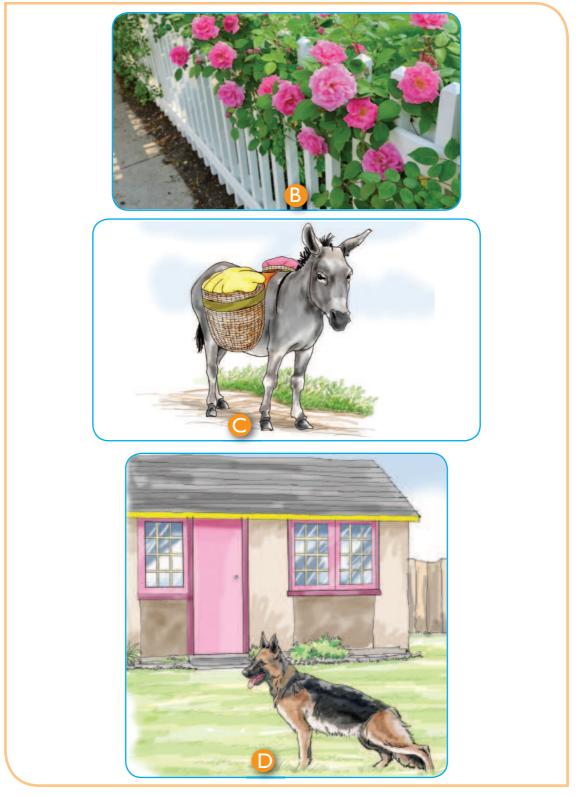
Activity 2.9

In pairs

 Name the importance of plants and animals shown in the following pictures.











Remember!

Animals that live in the forest are called **wild animals**. For example; elephants, snakes, giraffes, lions, hares and leopards.



Draw and colour animals kept at home.

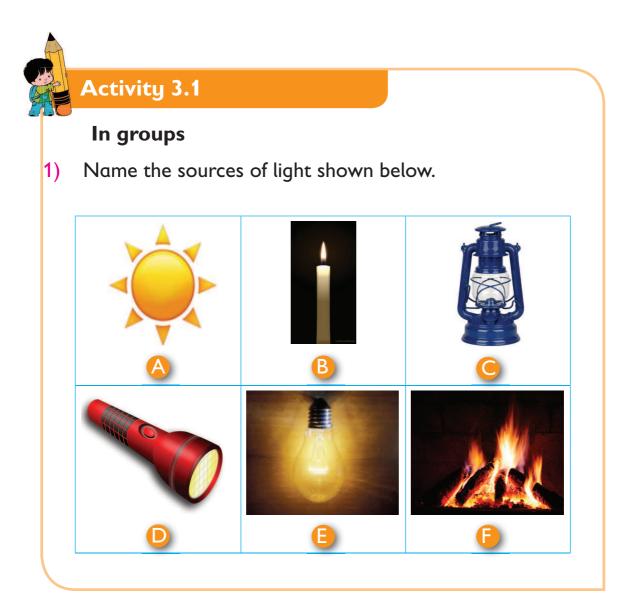


- 1) How are animals important to us?
- 2) I provide security at home. Who am I?
- 3) Which animals give us food?
- Animals that live at home are called _ animals.





3.1 Sources of light







Where do you think light comes from?

Learning point

• Sources of light include the sun, lantern, fire, candles, lamps, torches.



3)

Remember!

The sun is the main source of light. Do not look directly at the sun. It can destroy your eyes.



Draw and colour the source of light you use at home.



3.2 Sense of seeing Activity 3.2 In pairs Tick \checkmark the one that is different in each row. 1) Why do you think they are different from the rest? 2)



• We cannot see without our eyes. Eyes helps us to see.

Did you know?

Hawks have strong eyes which help them see things from far up in the sky. That is why they see small chicks from far and come to catch them.

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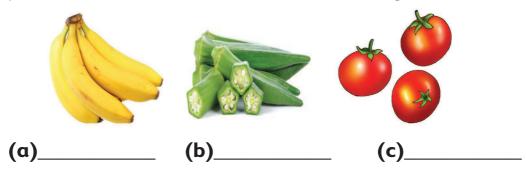


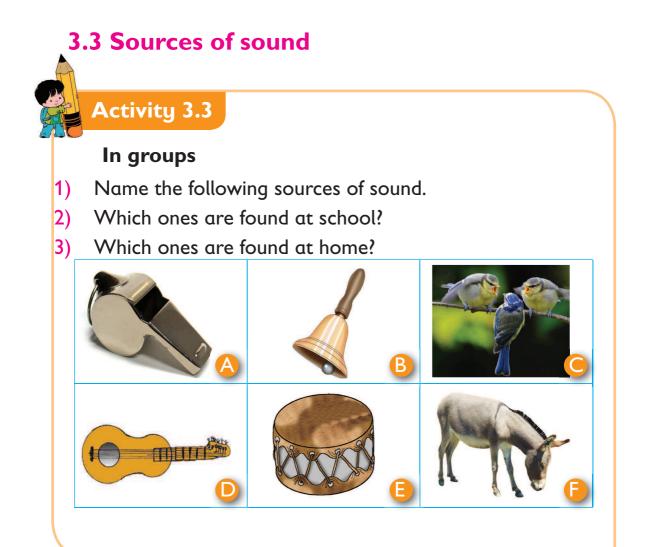
Draw and colour the sun, moon and stars.



Check your progres	s 3a			
 Match the source of light with its name. 				
Picture Name				
	Candle			
	Sun			
	Lamp			
	Fire			
 When there is no light, my cannot see. 				
	47			

3) Write the correct colour for the following foods.









• Things that produce sound are called **sources of sound**. Look at the pictures below. What are the children doing?



- When children play, they produce sound.
- When children sing, they produce sound.
- When playing a guitar, sound is proudced.

FUN CORNER Draw and colour the sources of sound in school. 1) Recite this poem 2) Sound oh! Sounds at school When children play, sound When children sing, sound When the bell rings, sound



Sound at home



Activity 3.4

In groups

1) What kind of sounds do the items below produce? Do they produce the same sound as these sounds found at school?



- 2) When at home, listen to the sounds around the compound.
- 3) Can you name some sources of sound you have heard?
- 4) Which animals produce sound at home? Can you name them?

Learning point

• There are different sources of sounds around the school and at home.

FUN CORNER

Draw and colour a dog barking.



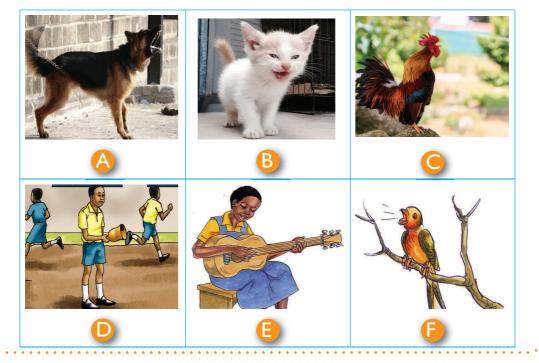
1)

Remember!

Sharp or loud sounds can cause damage to the ears!

Check your progress 3b

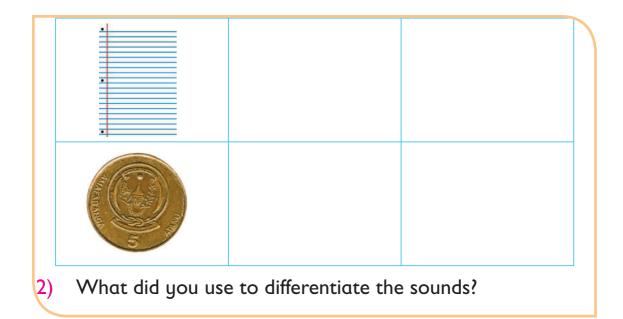
What type of sound is produced by each of the picture below?



3.4 Sense of hearing Activity 3.5 In pairs 1) Drop the following things on the floor. Tick is the correct box with the kind of sound produced.

Picture	Loud	Soft





- Things that produce sound are called **sources of sound**.
- The ear is the organ for hearing.



Close one ear and role play listening to different sounds.

Remember!

We should protect our ears.



<mark>-</mark> Did you know?

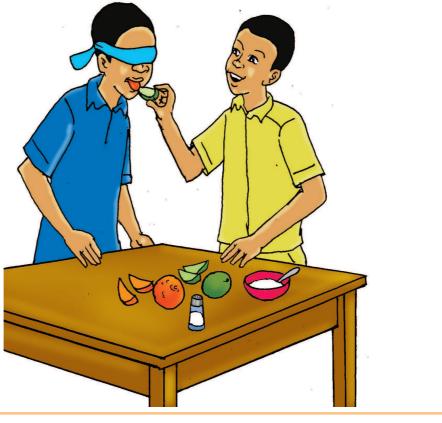
Horses have strong ability to hear sound from far. Elephants have large ears that can get faintest sound. ю

3.5 Sense of taste

Activity 3.6

In groups

- 1) Play a game of tasting things.
- Blindfold one member of the group and let him or her pick an item from a box and taste.



- 3) Let your friend tell you if you are right.
- Draw a line to match each picture with the correct part of the circle.





Sweet Bitter	Salty Sour
Sweet Bitter	Salty Sour

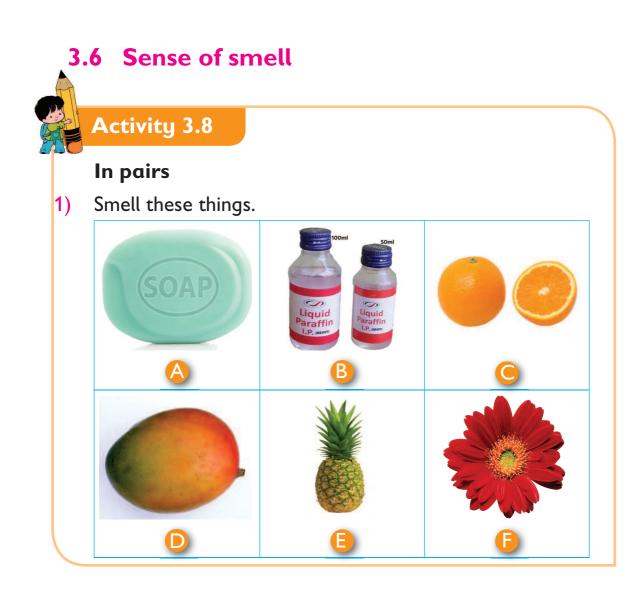
- The tongue is the organ for tasting.
- Some things taste sweet, bitter, salty or sour.
- Some things taste salty. Salt tastes salty.



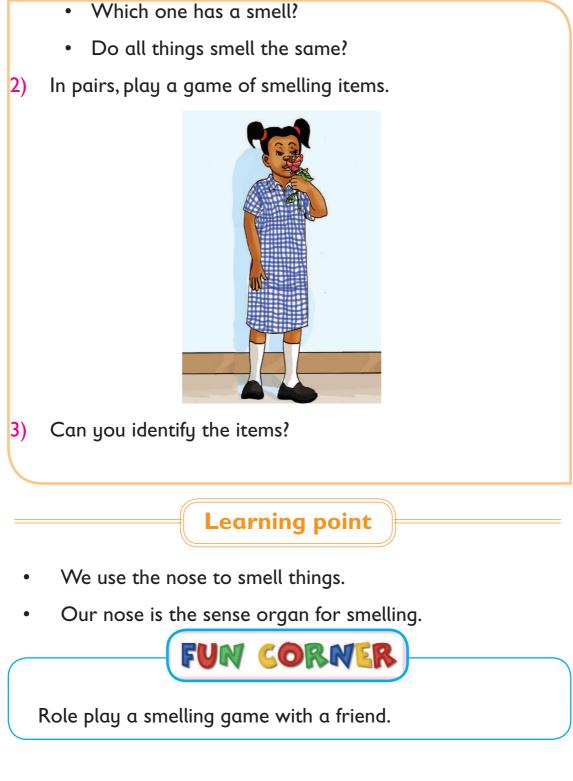
Remember

Do not taste everything that you come across. Some things may be harmful to your health.













1)

Remember

Dogs have a strong sense of smell. It can smell things that are very far.

Check your progress 3d

Match the sense with the sense organ in the table below.

Sense organ	Sense
	Sight
	Tasting
	Smelling















4.1 Weather changes

Activity 4.1

In pairs

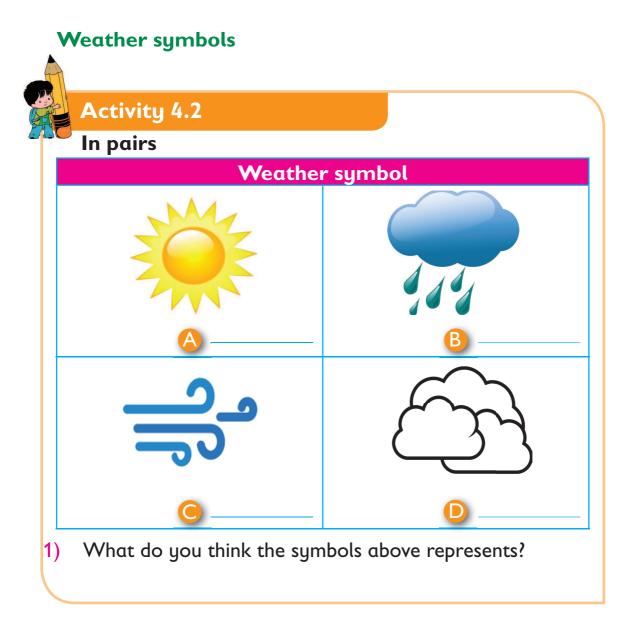


What type of weather is shown by each picture?



1)

- Weather can change within a short time.
- Weather can be windy, cloudy, rainy, sunny or calm.

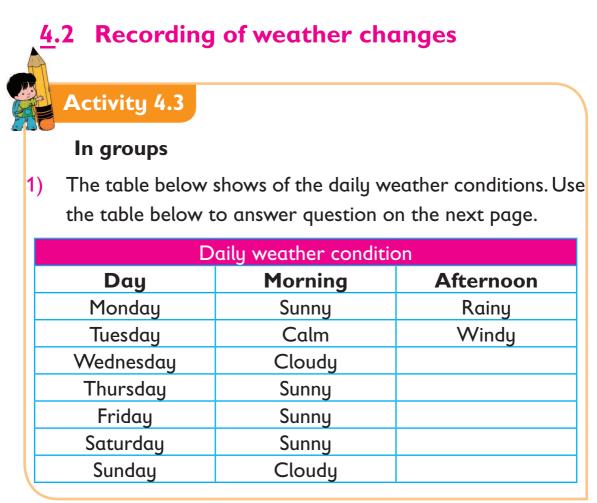


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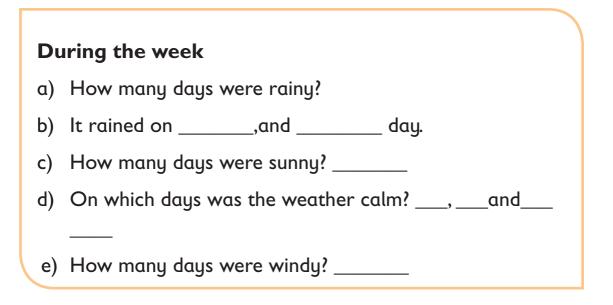
We use weather symbols to record weather conditions of a particular day.



Draw the symbol of the weather today.









- When we fill in daily weather conditions in a table, we are recording weather conditions.
- The recording of daily weather conditions for more than one week is called a weather chart.



4.3 How to tell weather conditions



Activity 4.4 In pairs



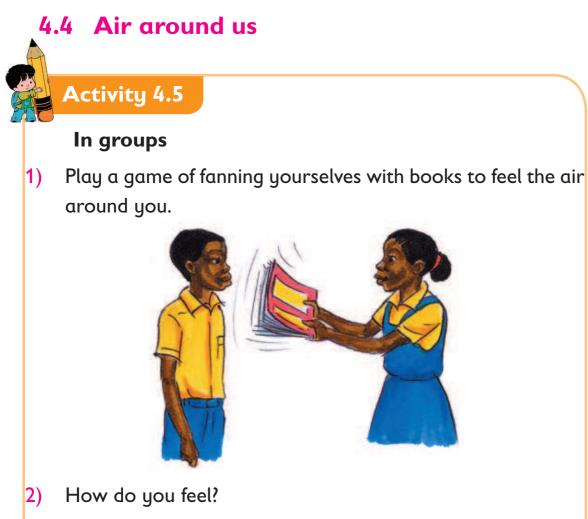
Can you tell the weather conditions shown in the pictures above?

Learning point

• We can tell the weather condition by looking at how things behave.



Role play using the weather instruments to measure weather.



• Where do you think the air you feel comes from?



- You cannot see, touch or hear air.
- We only see what air does.



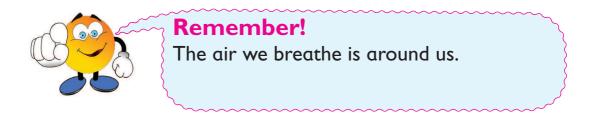
Use papers and sticks to make a fan. Use it to fan yourself when you feel hot.





- 1) Talk about what your see in the pictures with a friend.
- 2) What do you think has been put in the balloon, car tube and ball to make them big in size?

• Air fills the ball, car tube and balloon to make them appear big in size





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- 1) In groups, talk about what you see in the pictures.
- 2) What do you think makes things move?
- Go out of the class and look at trees, objects like papers and clothes.
- 4) Can you say what is happening?

Learning point

• Moving air is called **wind**. Wind makes things to move.



Make a kite and fly it on a windy day.



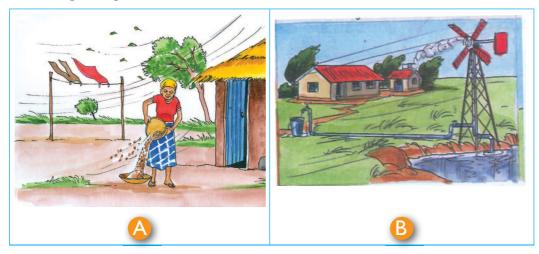


Wind can cause destruction of things.

4.6 Uses of moving air



In groups



- 1) What do you think is happening in the pictures above?
- What do you think are the uses of the wind? Mention them.
- 3) What do you think can happen when there is no wind?

• Wind helps us to dry clothes, generate electricity and winnow grains.

Check your progress 4a	•	
1) We cannot air.	•	
2) I make trees and flags move. Who am I?		
3) Moving makes a kite to fly.	•	
· · · · · · · · · · · · · · · · · · · ·	•	





Soil on a sheet of paper

- What is the colour of the soil?
- What things can you see in the soil?
- Soil may have these things: soil particles, dead plants and animals like dead insects, earthworms and millipedes.
- 3) Now touch and feel the soil between your fingers.





Feeling soil between fingers

- Are there big and small particles?
- Are the particles smooth or rough?

Learning point

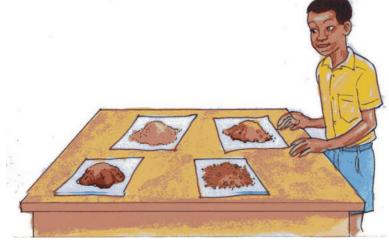
• Some soils are smooth like powder. Other soils are rough like sand.



Activity 5.2: Feeling different types of soil

In groups

- With the help of your teacher collect soil from the garden, roadside, river and river bank.
- 2) Look at each type of soil.
- 3) Touch and feel each soil collected.



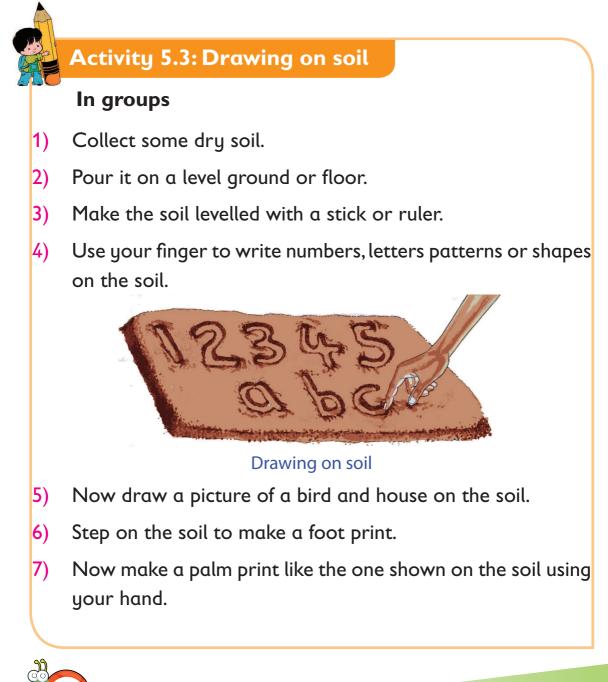
Feeling soils from different places

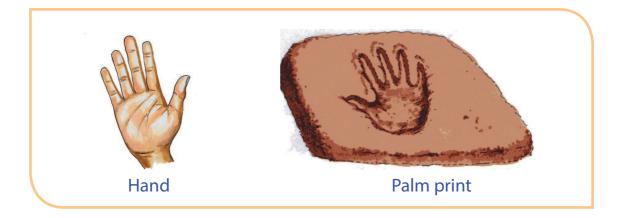
- Which soil has the largest particles?
- Which soil has small particles?
- Which one feels soft when touched?
- Which one sticks to the fingers when wet?
- Your teacher will help you to group the soils collected into clay, sand and loam.

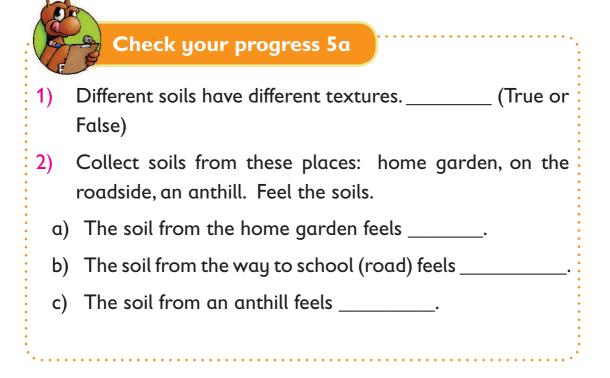


Soils with large particles like sand feel rough.

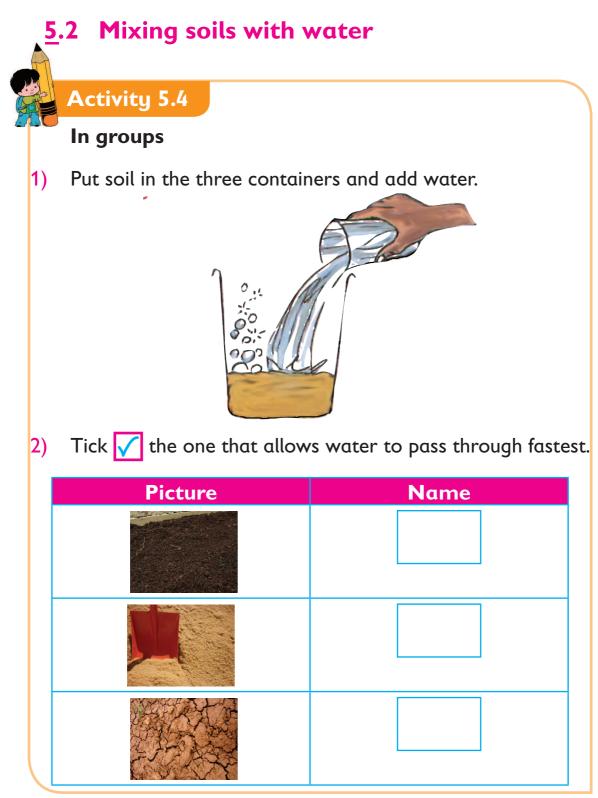
Soils with small particles like clay feel smooth.













- 3) How does the three types of soil feel after mixing with water?
 - Which soil mixes easily with water?

• Clay soil

Clay soil is smooth and sticky when wet.

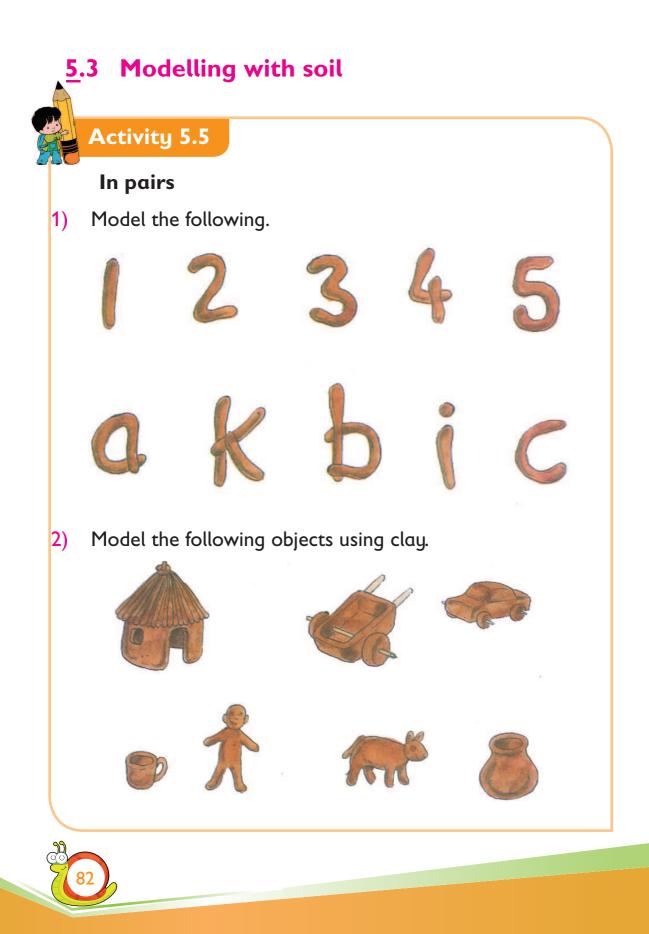
• Sand

Sand is less sticky when wet and less smooth.

• Gravel

When wet, it is not sticky and has a rough feel.

	Check your progress 5b
1)	I am a type of soil used to build roads. Who am I?
2)	I am a type of soil found mostly in rivers beds.Who am I?
3)	I am a type of soil used to model dolls and pots.Who am I?
••••	



- 3) Leave the models to dry for three days.
- 4) How does the letters, numbers and objects look like?

• Different things are modelled using clay soil. For example:



- Clay soil is the best soil for modelling.
- Ribbons from other soils such as sand and gravel crack after some time when they dry.

FUN CORNER

Model a doll, cup, house and a car using clay soil.

Remember!

Clay is the best soil for modelling.

Check your progress 5c 1) The soil that makes the poorest models is ______ soil. (clay, gravel) 2) Soil which feels smooth when touched is ______ soil (Clay, gravel, sand) 3) A doll is made from which type of soil? ______



UNIT

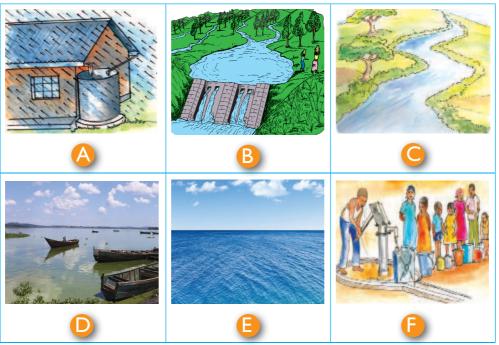
6

Water and wheels

6.1 Sources of water

Activity 6.1

In pairs



- 1) Talk about what is in the pictures above.
- 2) Where do you get water for use at home and school from?
- 3) Which source of water is found near your home?

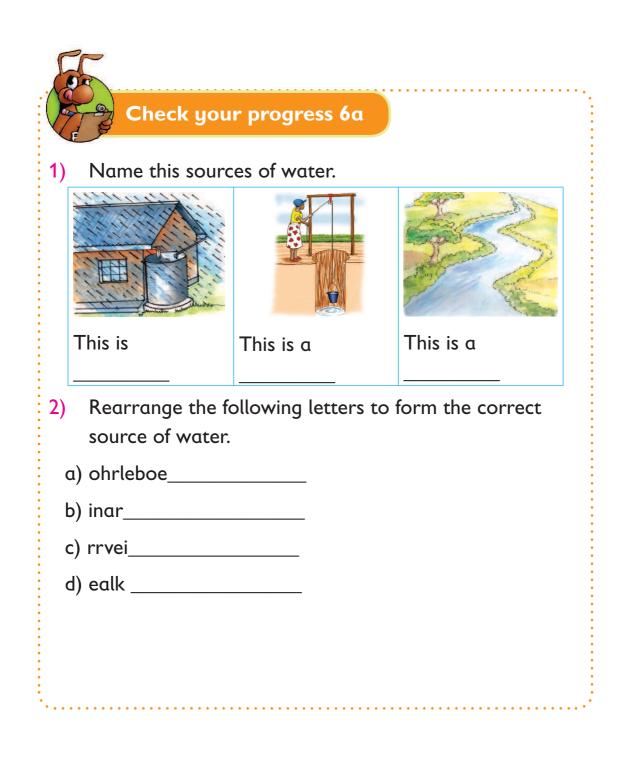
- We get water from rivers, rain, wells, dams, oceans, lakes, seas and boreholes.
- These are called **sources of water**.



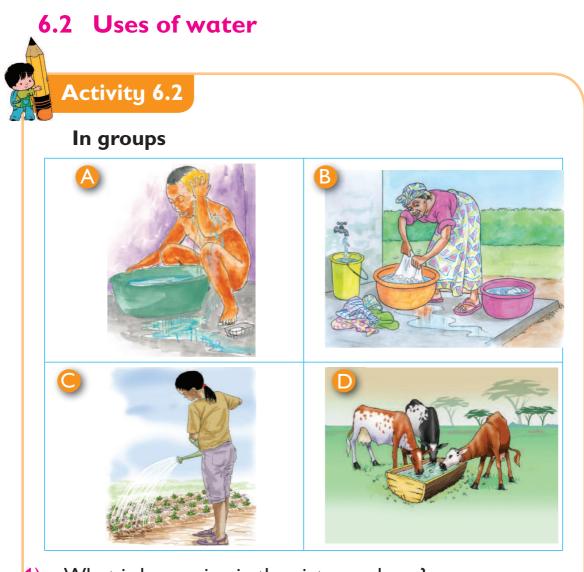


Draw, colour and name two sources of water.









- 1) What is happening in the pictures above?
- 2) How do you use water at home?

• We use water every day both at home and at school.



Class activity

What you need

Syringe, wheel, tubes

What to do

- Your teacher will help you to make a water wheel using a syringe.
- 2) Use the syringe to make the wheel to move.
- 3) What do you think made water to come out of the syringe to move the wheel?

Learning point

• Water can be used to move wheels.

FUN CORNER

Recite the following poem

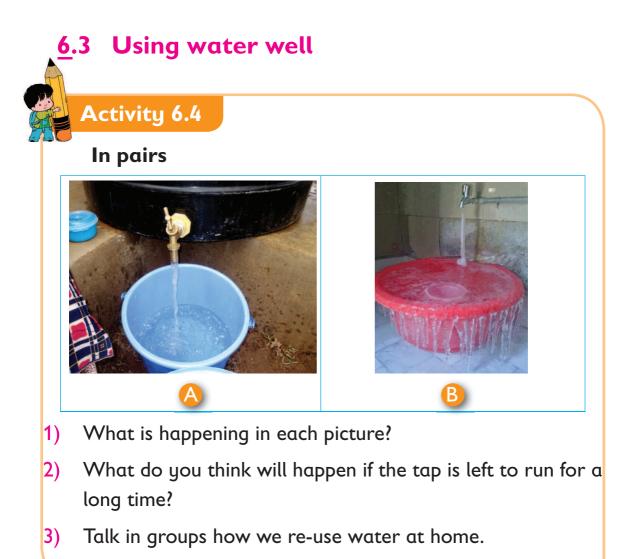
Oh! water, precious water! When thirsty, water Oh! water, precious water! Washing clothes, water Oh! water, precious water! For bathing water Oh! water, precious water! Crops growing, water Oh! water, precious water!



Remember!

We should always drink clean boiled water.





- We should use water sparingly.
- We should not waste water.

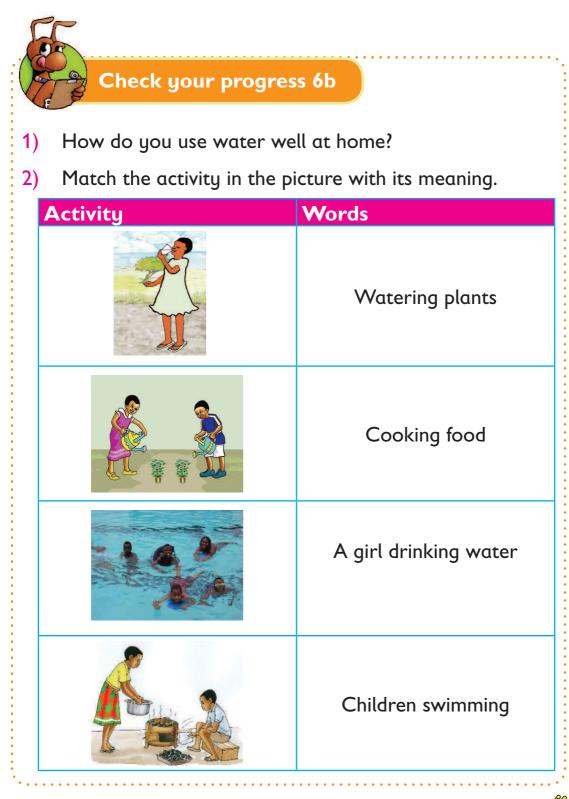
FUN CORNER

Practise watering plants or flowers at home and in school.

Remember!

We should always close taps after use to avoid wasting water.







6.4 Measuring water



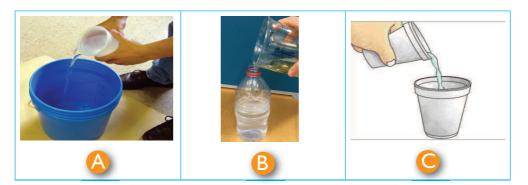
In groups

What you need

- Water
- Measuring cylinder
- Small containers of different shapes and sizes
- Four containers of the same size and shape (cups)
- Plastic bottles of various sizes

What to do

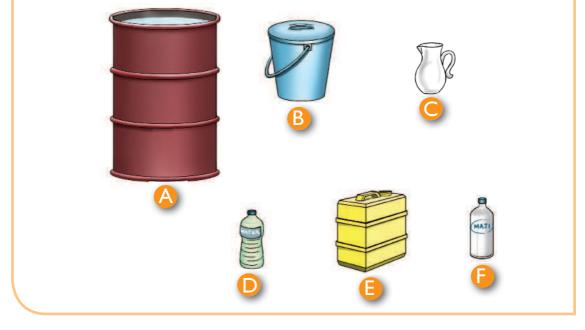
- 1) Fill all the containers with water.
- 2) Which containers hold more or less water?



 Pour the water in the small containers to fill the big containers



- Measure the amount of water that fills containers using the measuring cylinder.
 - Do all the containers hold the same amount of water?
 - Which one holds more or less?





• Big containers hold more water than small containers



Practise filling a big container with water using a small container. How many small containers of water do you use to fill a big container?





Remember!

We use small and big containers at home to store **water**.

6.5 Floating and sinking



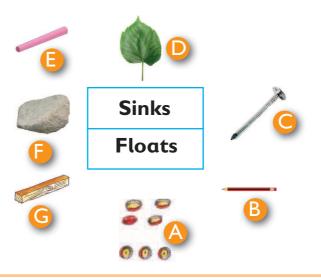
In pairs

What you need

Stones, bottle tops, pencil, rubber, ruler, basin of water, piece of paper, nails, wooden blocks, coins and keys in classroom.

What to do

- 1) Put each of these objects in a basin of water.
- 2) Match what happens to the objects in the diagram below.





- When an object remains on top of water, we say it is **floating.**
- When an object goes down into the water, we say it is sinking.

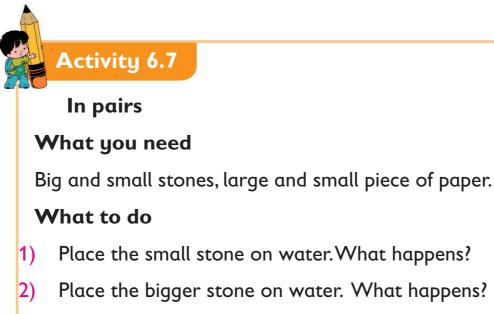




Remember!

When you swim you float on water.





3) Place small and big piece of paper on water. What happens?

Learning point

• Floating and sinking is not affected by size of the object.



Make a paper boat and sail it on water.





In groups

What you need

A basin of water, a bottle top and a hammer.

What to do

- 1) Place a bottle top facing upwards on a basin of water.
 - What happens? Does it sink or float?
- 2) Using a hammer or stone,
- 3) hit bottle top into a ball.
- 4) Place it back in water.
 - Does the bottle top sink or float?



• Change in shape of an object can make it sink or float.



In groups

What you need

Water in a basin, two plastic lids of equal sizes and some stones.

What to do

- 1) Place the two lids on water.
- 2) Place two or three stones on the lid and label it A.
- 3) Place six to nine stones in another lid and label it B.
 - What happens?

Learning point

• Weight affects floating and sinking of objects.



Role play floating and sinking of objects in water.



Check your progress 6c

Fill the table below with the following objects.

Papers, stone, keys, coins, wooden block, rulers

Objects which float	Objects which sink
1	1
2	2
3	3

