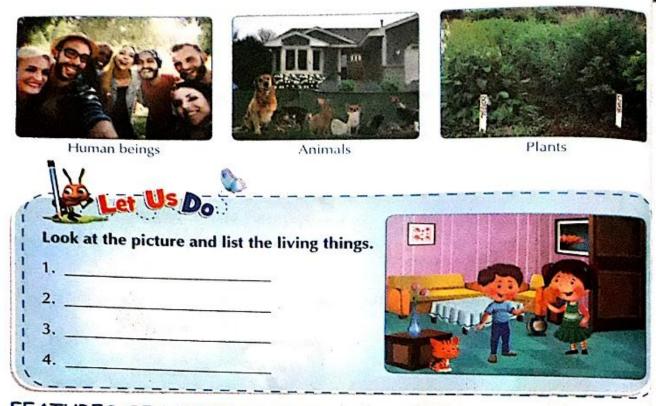


Things which have life in them are called **living things**. They can grow, breathe and **reproduce**. For example, human beings, animals and plants.

reproduce: to give birth to young ones



## FEATURES OF LIVING THINGS All Living Things Move

Living things move from one place to another on their own for food, shelter and safety. For example, human walks/runs with the help of legs, insects and birds fly, fish swim and dogs and cats walk.





Birds fly

Fish swims







Though plants do not move from one place to another, they show movement of their parts. For example - a sunflower always turns towards the sun, the leaves of a touch-me-not plant close when



The cheetah is the fastest land animal with speed of 110-120 km/hr.



Sunflowers turn towards the sun

#### ALL LIVING THINGS GROW



The leaves of a touch-me-not plant close when touched

All living things grow in size and change their shape. For example, a little puppy grows into a dog, a kitten grows into a cat.

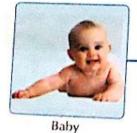


A puppy grows into a dog

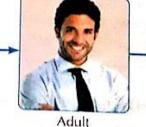


A kitten grows into a cat

Growth in animals A baby grows up to be a boy. The boy grows into an adult man and then to an old man.









Growth in humans

Old man

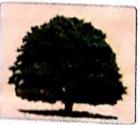
A seed grows into a small plant, which further grows into a big plant and hen into a big tree.



Seed

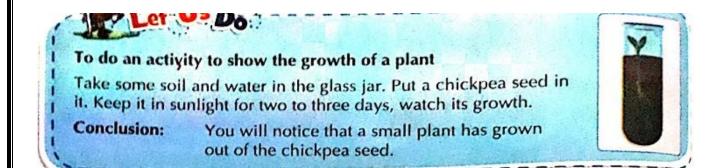


Small plant Growth in plants



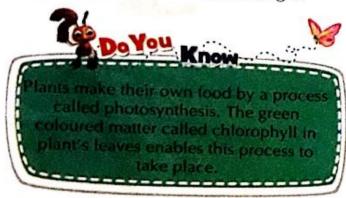
**Big tree** 





## ALL LIVING THINGS NEED FOOD

All living things need food to live and grow. Animals get their food from plants and other animals. For example, a cow eats grass, a lion eats other animals and a monkey eats fruits. Green plants make their own food with the help of air, water and sunlight.





Monkey eating fruits



Plants make their own food

## ALL LIVING THINGS BREATHE

All living things need to breathe in order to stay alive. Humans and other animals that live on land breathe through lungs. Other animals have different organs for breathing. For example, fish

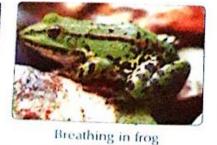


breathe through gills, a frog breathes through its lungs on land, while in the water, it breathes through its moist skin. Plants also breathe. They breathe through the small pores present on their leaves. These pores are called stomata.











Breathing in plant through stomata

#### Breathing in humans

## ALL LIVING THINGS FEEL

All living things respond to changes in the surroundings. Human beings and other animals have sense organs to feel changes around them.

For example: We feel pain and pull away our hand on touching a hot object; plants can also feel changes around them but they do not have sense organs. For example: A plant always grows towards sunlight. Plants can also sense weather changes. Many plants shed their leaves in autumn and bear flowers in spring.



# To do an activity to check that plants can feel

Go to a park near your home. Look for a touchme-not plant. Touch the leaves of the plant and watch it. The leaves will fold in a moment.



# ALL LIVING THINGS REPRODUCE

All living things reproduce and give birth to young ones similar to hemselves. For example, human beings give birth to babies, cats give birth to kittens, cows give birth to calves and hens lay eggs out of which hickens hatch. Plants also give rise to new plants from seeds, roots, tems or leaves.



A mother with her baby



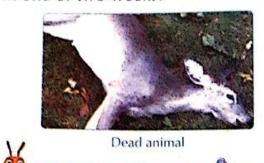
A cat with its kitten

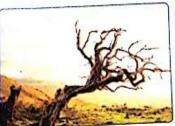


A cow with its calf

#### ALL LIVING THINGS DIE

All living things grow and finally die some day, i.e., every living thing has a fixed **lifespan**. The lifespan is different for each living being. For example, a banyan tree dies in about 300–400 years whereas a butterfly dies in one or two weeks.





Dead Banyan tree

Time	to Answer	0		
State True or Fa	ilse.			
. All living this	ngs reproduce.			(
	s die when they gro	ow old.	5 S.	(
	imals can make the			
. Different ani	mals have different	organs for brea	thing.	(
. Different ani	mais have different	organs for brea	uning.	

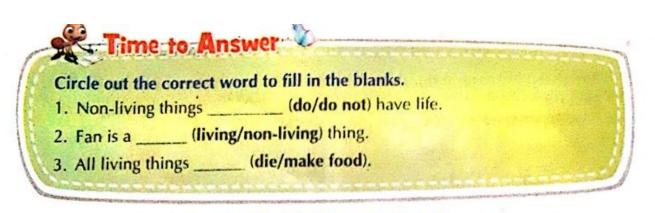
#### NON-LIVING THINGS

Things which do not have life in them are called **non-living things**. Nonliving things do not grow, breathe, move or reproduce. For example, mountain, table, cup, fan, etc.

# DIFFERENCES BETWEEN LIVING AND NON-LIVING THINGS

Living things	Non-living things	
<ul> <li>Living things can move on their own.</li> <li>Living things need food.</li> <li>Living things grow.</li> <li>Living things breathe.</li> <li>Living things feel.</li> <li>Living things reproduce.</li> <li>Living things die.</li> </ul>	<ul> <li>Non-living things cannot move on their own.</li> <li>Non-living things do not need food.</li> <li>Non-living things do not grow.</li> <li>Non-living things do not breathe.</li> <li>Non-living things do not feel.</li> <li>Non-living things do not reproduce.</li> <li>Non-living things do not die.</li> </ul>	

lifespan: the time period for which a living thing lives



# NATURAL AND MAN-MADE THINGS

All the things around us can also be grouped into natural and man-made things.

### NATURAL THINGS

Things which are created by nature are called **natural things**. For example, animals, plants, earth, rivers, rocks, sun, moon, stars, etc. Natural things may be living or non-living.



Clouds

Sun

Earth

## MAN-MADE THINGS

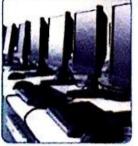
Things which are made by man are called **man-made things**. All man-made things are non-living. For example, television set, car, road, computer, building, aeroplane, etc.



Books

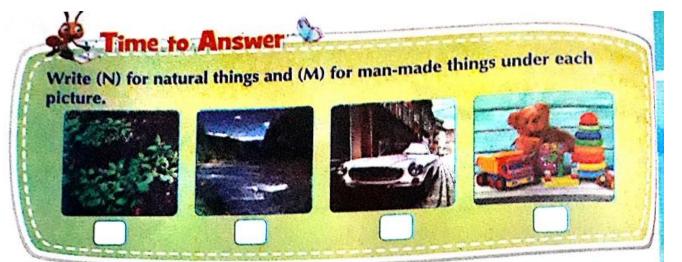


Table



Computer





key Ter

ings that have life in them	
breathing organ found in fish	
small pores in leaves of plant for breathing	
produce young ones similar to oneself	
organs that allow us to sense changes around	
things that do not have life in them	
things created by nature	
ings made by man	

us



- Living things have life in them.
- Human beings, plants and animals are living things.
- Living things move, grow, eat, feel, breathe, reproduce and finally die.

class no

- Non-living things do not have life in them.
- Non-living things cannot move, grow, eat, breathe or reproduce.
- Things made by man are called man-made things.

#### I. Match the following:-

#### A

(a)All man- made things are(b) Human beings, plants and animals are(c)We feel pain(d) All living things need(e)Natural thing

### II. Fill in the blanks:-

- 1. We breathe through \_\_\_\_\_\_.
- 2. A kitten grows into a \_\_\_\_\_\_.
- 3. A tadpole grows into a \_\_\_\_\_\_.
- 4. An adult man grows into \_\_\_\_\_\_.
- 5. Plants breathe through \_\_\_\_\_\_.
- 6. Fan is a \_\_\_\_\_ thing.
- 7. \_\_\_\_\_flower always turns towards the sun.
- 8. A puppy grows into a \_\_\_\_\_.

## III. Answer in one word:-

- 1. Name the breathing organ of human being.
- 2. What helps frog to breathe in the water?
- 3. The breathing organ found in fish is:

## IV. Answer the following questions in short (in 15 to 20n words):-

- 1. What are man-made things? Give two examples.
- 2. Why do living things need food?
- 3. Which type of movement is shown by touch-me-not plant?
- 4. Do plants also feel? Give one example.
- 5. What are natural things? Give two examples.
- 6. Define photosynthesis.
- 7. What do you mean by reproduction?

### B

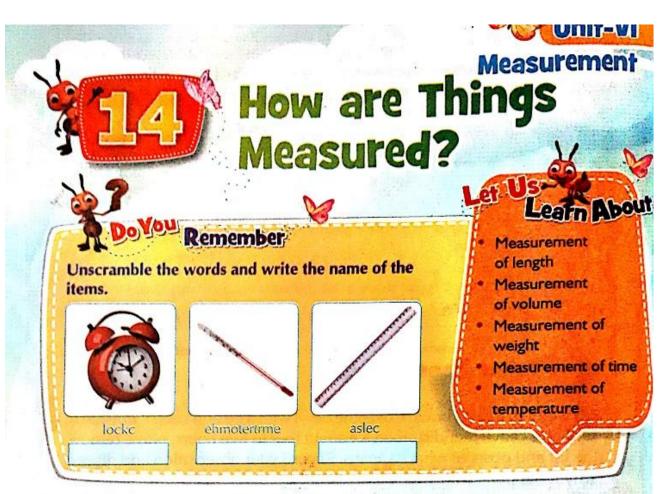
- 1. Living things
- 2. Non- living things
- 3. Sun
- 4. If someone pricks us
- 5. Food

### V. Answer the following questions in details (30-35 words):-

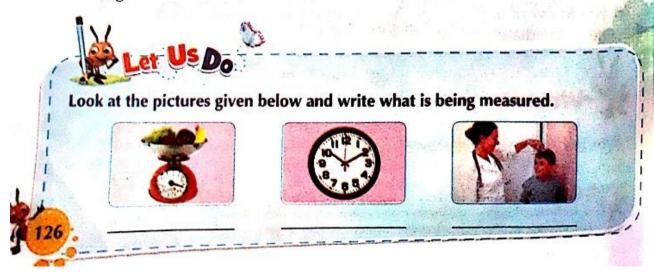
- 1. Write features of living things.
- 2. What are the difference between living things and non-living things?
- 3. Describe how plants show movements.
- 4. Give examples of reproduction in living things.

### VI. Think and Answer:-

- 1. Can you breathe in water like fish? Why or why not?
- 2. Robots are also man-made, but they can move. Are they living thing or nonliving thing? What made you to think it as living/ non-living thing?

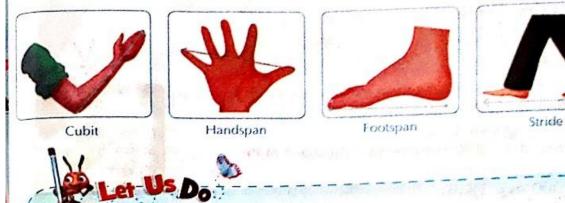


We need to measure many things in our daily life, like length of a cloth, height, weight of objects, volume of liquid, time and temperature. All the measurements are done in different units. For example, we weigh vegetables in kilograms. We measure liquid in litres. There are different instruments for measuring each of these.



### MEASUREMENT OF LENGTH

Length tells us how long a thing is. In early times, people used their body parts as units to measure the length of an object. They used handspan, footspan, **cubit** and **stride** to measure length of any thing.



Ask your mother to measure the length of a window using her handspan. Now, you measure the same window using your handspan.

Note down the number of handspans counted by you and your mother. You will find a difference in the measurement because different handspans have different lengths.

To get an accurate measurement, we have fixed units for measuring things. Metre is the unit used for measuring lengths. Smaller lengths are measured in centimetres and millimetres.

- Metre is written as m.
- Centimetre is written as cm. (100 cm = 1 m)
- Millimetre is written as mm. (10 mm = 1 cm)
- A ruler measures length in centimetres, millimetres and inches.
- Cm 19 mm 19 mm

The linen bandages that were used

to wrap Egyptian mummies averaged

1,000 yards in length (i.e. 914.4 m).

For example, a ruler shown here is 15 cm long.

cubit: an ancient linear unit based on the length of the forearm stride: to walk with long steps to measure the length unit: fixed measures of finding quantity of a thing

Measure the lengths of your objects using a centimetre ruler and fill in the blanks.

(a) My pencil box is \_\_\_\_\_ cm long. (b) My book is \_\_\_\_\_ cm long. (c) My pencil is \_\_\_\_\_ cm long.

You might have seen a tailor measuring cloth using a measuring tape. A measuring tape measures length in metres and centimetres.

Very long distances which are travelled by car, bus, scooter or cycle are measured in kilometres written as km. (1,000 m = 1 km).



A tailor measuring cloth

#### Complete the following sentences.

Time to Answer

- 1. A tailor uses \_\_\_\_\_\_ to measure the \_\_\_\_\_\_ of a cloth.
- 2. Very long distances can be measured in \_\_\_\_\_.
- is the shortest unit to measure length.

### MEASUREMENT OF VOLUME



The space occupied by any substance or container is called volume.

Litre is commonly used as the unit to measure volume. Smaller amounts of liquid are measured in millilitres. Litre is written as L and millilitre is written as ml. (1 | = 1,000 ml)

We use special instruments like measuring cylinders marked in millilitres and litres to measure volume of liquids. Liquid is poured Measuring into these jars and volume is measured by reading the markings on them.

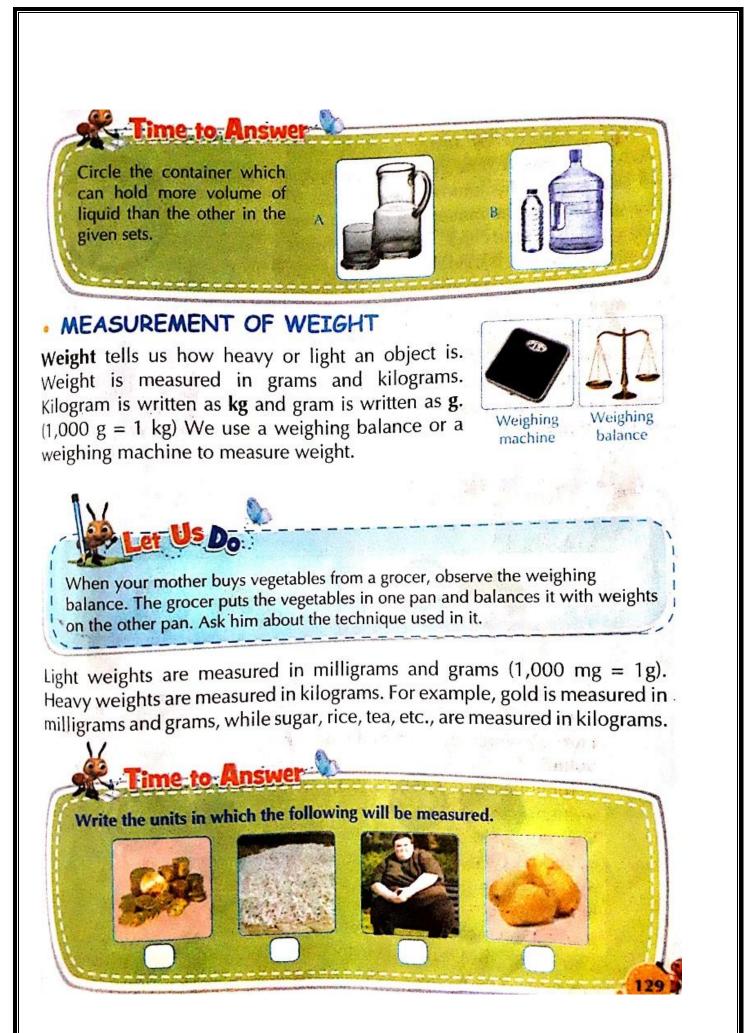


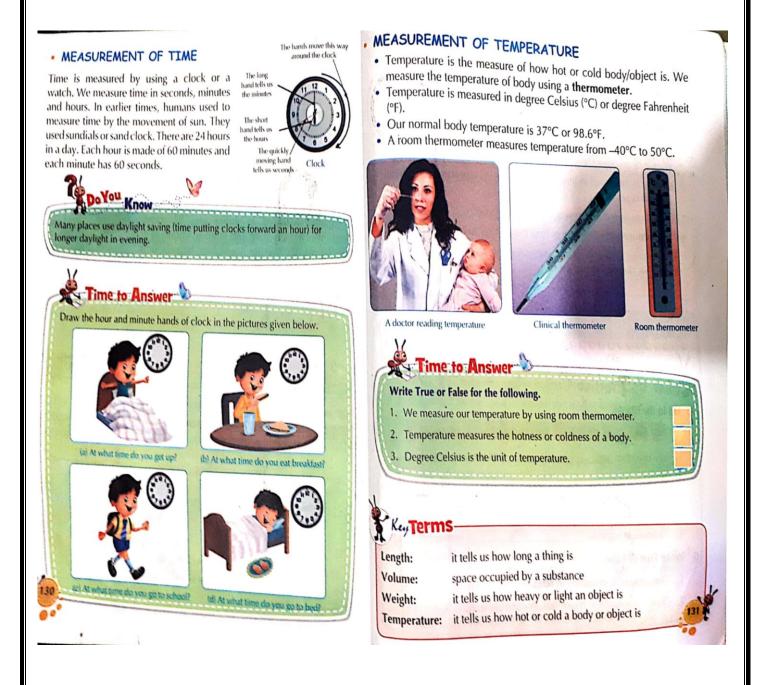
Milkman measuring milk

cylinder



You might have seen your milkman measuring the milk using special mug-like vessels while giving you milk.





#### I. Match the following:-

A

- a) Clock
- b) Thermometer
- c) Ruler
- d) Weighing machine
- e) Measuring cylinder

#### B

- 1. To measure length
- 2. To measure weight
- 3. To measure liquid
- 4. To measure temperature
- 5. To measure time

#### II. Fill in the blanks:-

- a) We use litres and \_\_\_\_\_\_ to measure volume.
- b) A \_\_\_\_\_\_ is used to measure liquids.
- c) In early time people used \_\_\_\_\_\_ to measure lengths.
- d) Thermometer is used to measure \_\_\_\_\_
- e) One minute is equal to \_\_\_\_\_\_ seconds.
- f) Very long distances can be measured in \_\_\_\_\_.
- g) \_\_\_\_\_\_ measures length in meters and centimetres.
- h) \_\_\_\_\_\_ is the shortest unit to measure length.

#### III. Answer in one word:-

- a) Name any one unit for measuring temperature.
- b) Which instrument is used to measure liquids?
- c) For measuring cloth, tailor uses which instrument?

### IV. Answer the following questions in short (15- 20 words):-

- a) What is the temperature of a normal human body?
- b) Name the body parts which were used to measure lengths in early days.
- c) What is used to measure weight?
- d) What is temperature?
- e) What are the different units used to measure length?
- f) A room thermometer can measure temperature in which range?
- g) How is time measured?

### V. Answer the following questions in detail (30-35 words):-

- a) How are liquids measured?
- b) Define weight. What unit do we use to measure the weight of an object?
- c) How do we measure time? In earlier times how humans used to measure time? Write the units of time.
- d) How people in early times measured length and how do we measure now?

#### VI. Think and Answer:-

- a) You have a 1-litre capacity mug. How will you measure 12 litres of water to be kept separately for drinking by using that mug?
- b) Global warming heat up the surface of earth and we feel hotter however, during this lockdown we're not feeling hotter than the last year time. Which activities you think had made temperature of earth surface to cool down a bit?

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