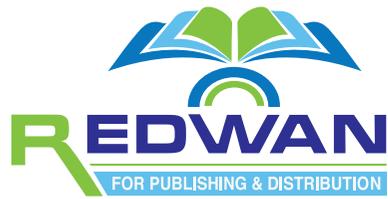


Everyday Science

Level

1





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Introduction

Everyday Science is made up of six levels, each designed to meet the delicate educational requirements of the target age group. The structure of the series harmoniously balances four scientific branches: biology, chemistry, physics, and Earth sciences. The series promotes the importance of careful observation and experiments to verify facts and arrive at conclusions based on scientific methods. Through the variety of activities it provides, the series illustrates to young learners the connection between the subject studied and the real world, something that's often overlooked in teaching science.

Everyday Science is all about encouraging students to think about the world in terms of how & why. It directs youngsters' curiosity in the way of learning, discovering and understanding common occurrences and different natural phenomena.



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Science

To define science and to identify various living and non-living things.



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To classify animals according to their physical appearance and movement pattern.

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To identify the parts of a plant and to classify them according to their physical appearance and utility.



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To review course contents of the book.

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Unit 1

Science

Science

is the study of the world
using our senses.

This is an **Ant**.

It has **6**
six legs.



This is a **flower**.



It has
petals.



A leaf is green.



An apple is red.



Tea is hot.



Ice is cold.



A stone is hard.



Jelly is soft.



A tortoise is slow.



A rabbit is fast.



A mouse is small.



A kitten is weak.



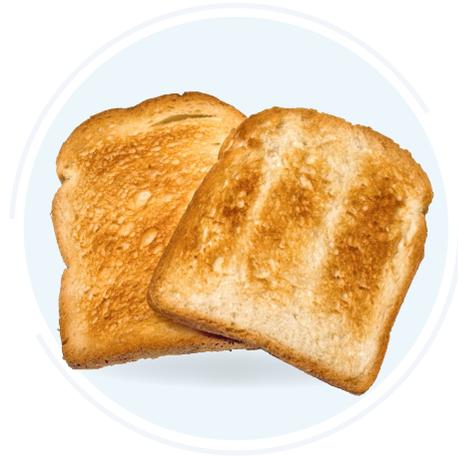
A horse is strong.



An elephant is big.



A football is **round**.



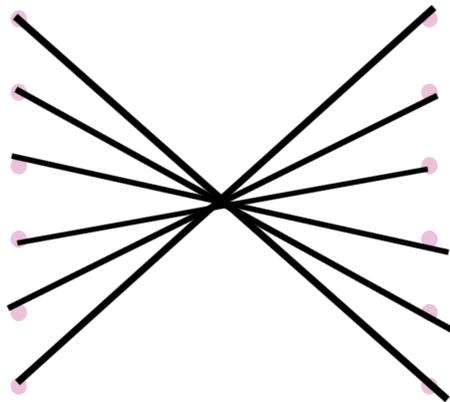
A toast is **square**.

Activities

1. Choose the best answer.
 - (a) An ant has (~~six~~ four) legs.
 - (b) An apple is (blue ~~red~~).
 - (c) A leaf is (~~green~~ \ red).
 - (d) Jelly is (hard \ ~~soft~~).
 - (e) A stone is (~~hard~~ \ soft).
 - (f) Ice is (hot \ ~~cold~~).
 - (g) Tea is (~~hot~~ \ cold).
 - (h) A football is (~~round~~ \ square).

2. Match the items in list A and B to make correct statements.

- A
- An elephant is
 - A mouse is
 - A horse is
 - A kitten is
 - A tortoise is
 - A rabbit is

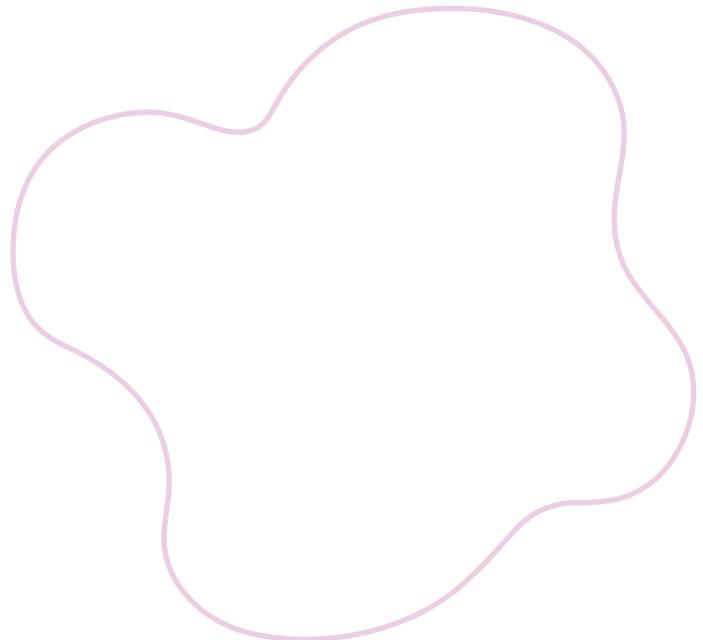
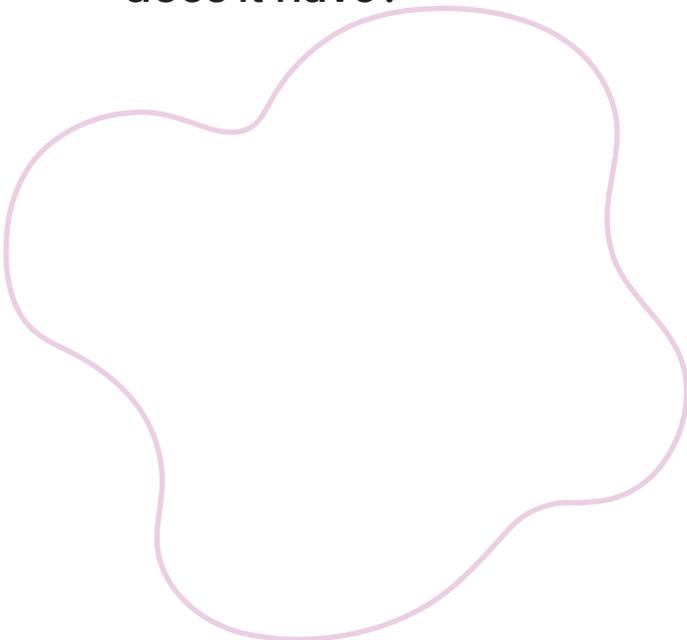


- B
- fast
 - slow
 - weak
 - strong
 - small
 - big

3. Draw.

(a) Draw an ant. How many legs does it have?

(b) Draw a flower.



4. What is Science?

Science is the study of the world using our senses

Unit 2

Animals

Animals

are living things.
Animals are of many
shapes and colours.

Insects

Insects are very small animals. They crawl.
Many insects fly as well.



bee



butterfly



fly



ladybird



ant

Animals

Small animals

Small animals include mice, rabbits, squirrels, cats and dogs.



dog



cat



mouse



rabbit



squirrel

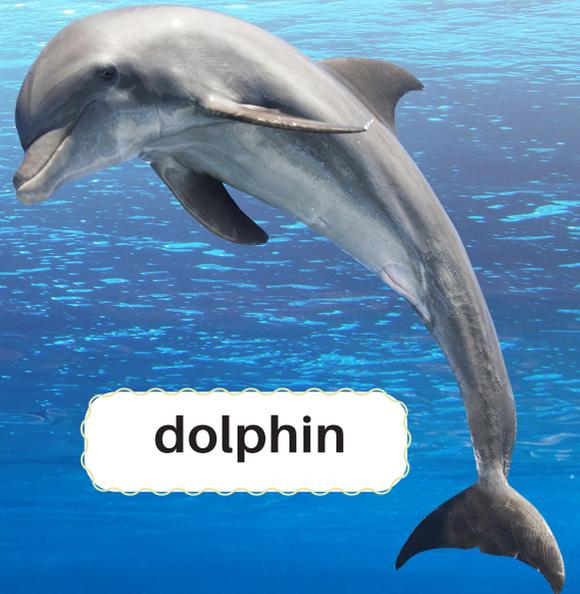
Animals

Water animals

Water animals live in the water.



whale



dolphin



starfish



fish



sea horse



crab

Wild animals

Wild animals live in the forest.
They walk and run. Some of them climb trees.



monkey



tiger



deer



lion



fox

Useful animals

We keep these **animals** on a farm.



A **sheep** gives us wool.



A **horse** pulls a cart.



A **goat** gives us meat.



A **cow** gives us milk.

Birds

A **bird** has feathers. Most birds can fly.



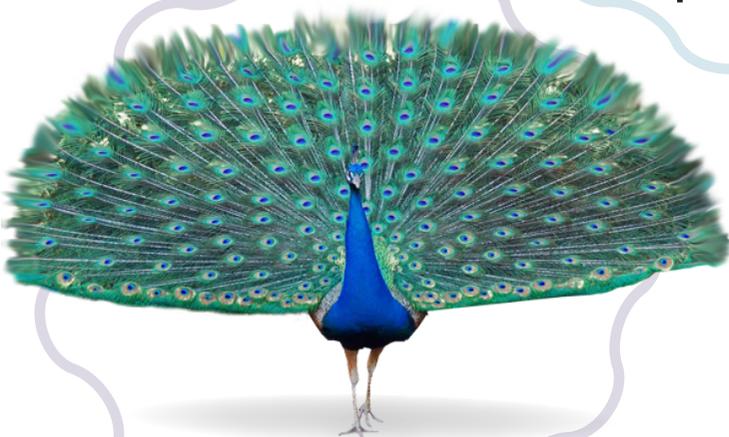
duck



parrot



sparrow



peacock



crow

Activities

1. Learn to draw animals. Colour them.



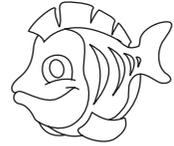
snail



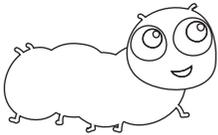
rabbit



butterfly



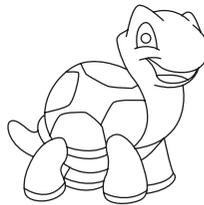
fish



caterpillar



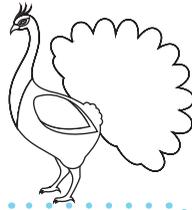
ant



tortoise



ladybird



peacock

2. Which is bigger?



elephant



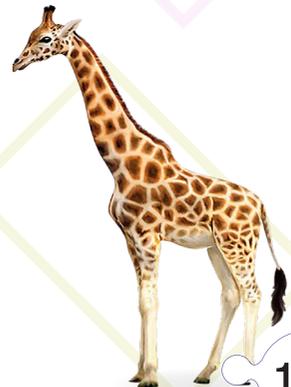
cow



deer



giraffe



Animals

3. Make pairs of similar animals.

<p>1. lion</p> <p>2. cow</p> <p>3. duck</p> <p>4. butterfly</p>		<p>parrot</p> <p>tiger</p> <p>bee</p> <p>sheep</p>
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4. Write Yes or No.

(a) Birds crawl.

No

(b) Monkeys climb trees.

Yes

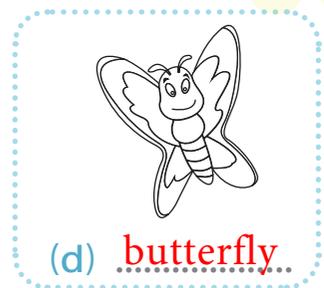
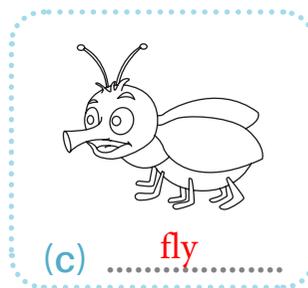
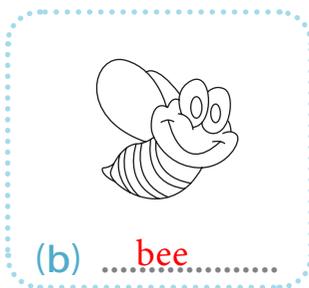
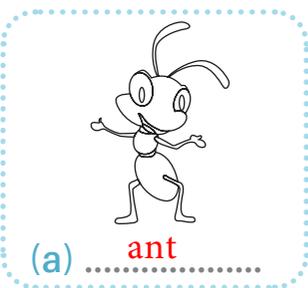
(c) Frogs swim in water.

Yes

(d) Sea horses run.

No

5. Write the names of the insects and colour them.



6. Write the names of five small animals.

(a) m.ouse

(b) r.abb.i.t

(c) squi.rre.l

(d) ca.t

(e) do.g

7. Complete the table.

Water animals	Wild animals
(a) <u>fish</u>	(a) <u>monkey</u>
(b) <u>whale</u>	(b) <u>lion</u>
(c) <u>dolphin</u>	(c) <u>deer</u>

Animals

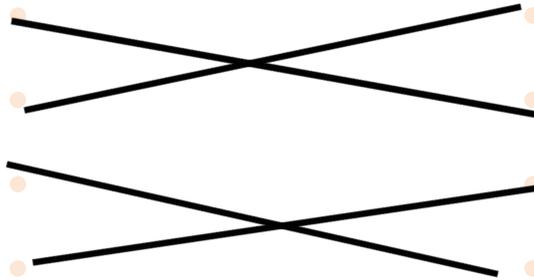
8. Draw lines to match the animal with the work it does.

1. cow

2. goat

3. sheep

4. horse



gives meat

gives milk

pulls a cart

gives wool

9. Write the names of the following birds.



(a) p.a.r.r.o.t



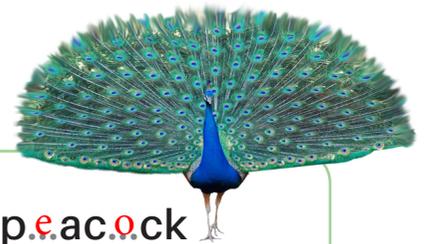
(b) c.r.a.w



(c) d.u.c.k



(d) s.p.a.r.r.o.w



(e) p.e.a.c.o.c.k

10. Name the animals.



(a)fish.....



(b)rabbit.....



(c)fly.....

Unit 3

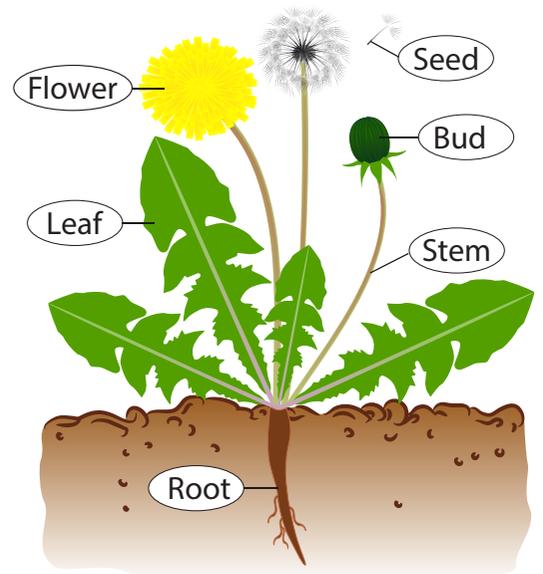
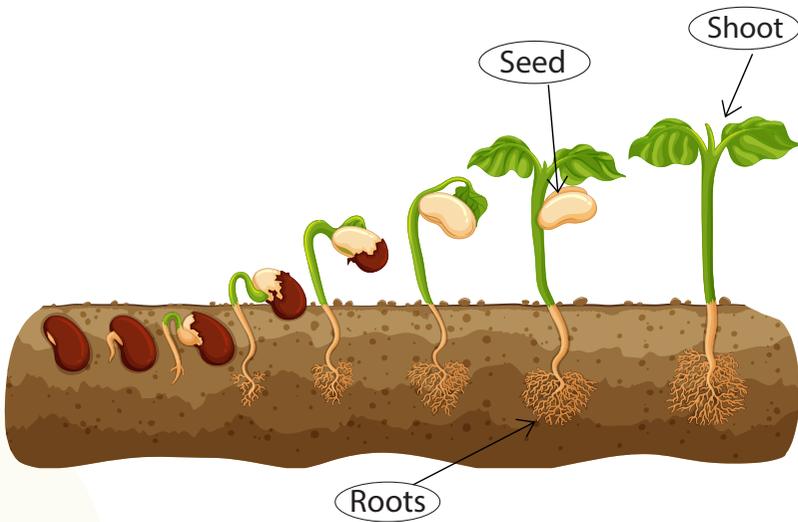
Plants

Plants

Plants are living things.
A plant grows from a seed.

Parts of a plant

bud, flower, leaf, stem, root



Kinds of plants

Green Plants

Green plants need
sunlight to make food.

Most plants are green.
Green plants can make
their own food.



Plants

Herbs

Herbs are **small plants.**



They have **short stems.**

Creepers

creepers are **climbing plants.**



Plants

Shrubs

Shrubs are bushy plants.



They have many leaves and branches.

Trees

Trees are very big plants.



These are leaves of different plants.



They have hard stems.

Useful plants

Plants give us **flowers**.



rose



lily



bluebell



sunflower

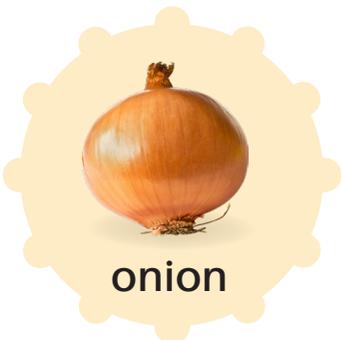


jasmine

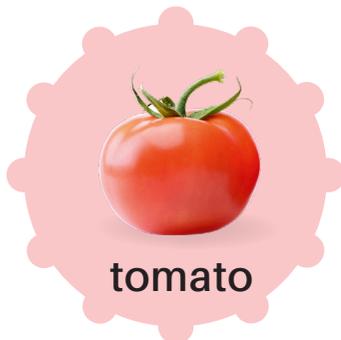


marigold

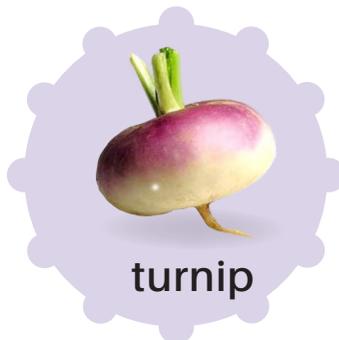
Plants give us **vegetables**.



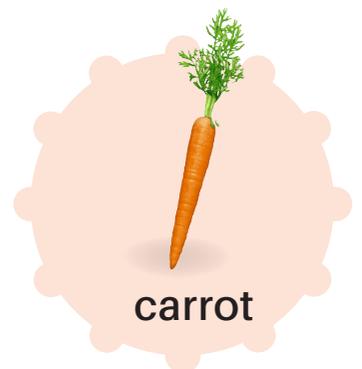
onion



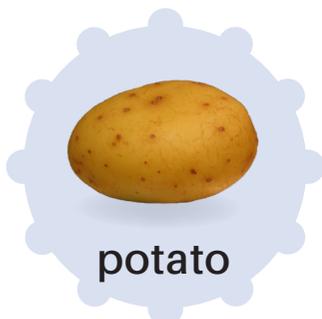
tomato



turnip



carrot



potato



peas

Plants give us **fruits**.



mango



apple



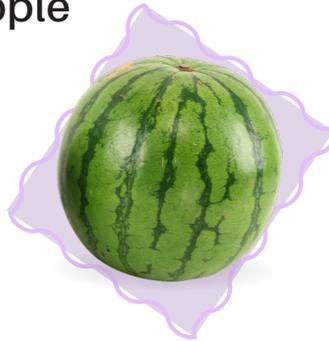
grapes



orange



banana



watermelon

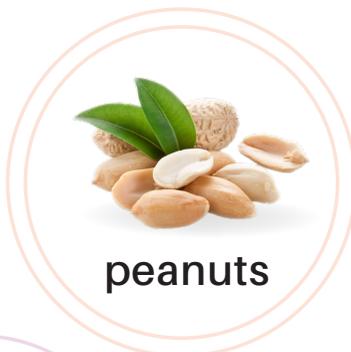


lemon

Plants give us **seeds**.



almond



peanuts



pine nuts



walnut



peas

Plants give us **wood** to make things.



Ruler



House



Chair



Pencil



Table



Door

Plants

Some plants grow in water.

Water plants



water lily



pondweed



seaweed



date palm

Desert plants

Some plants grow in hot, dry places.



cactus



pine tree

Mountain plants

Some plants grow in cold places.

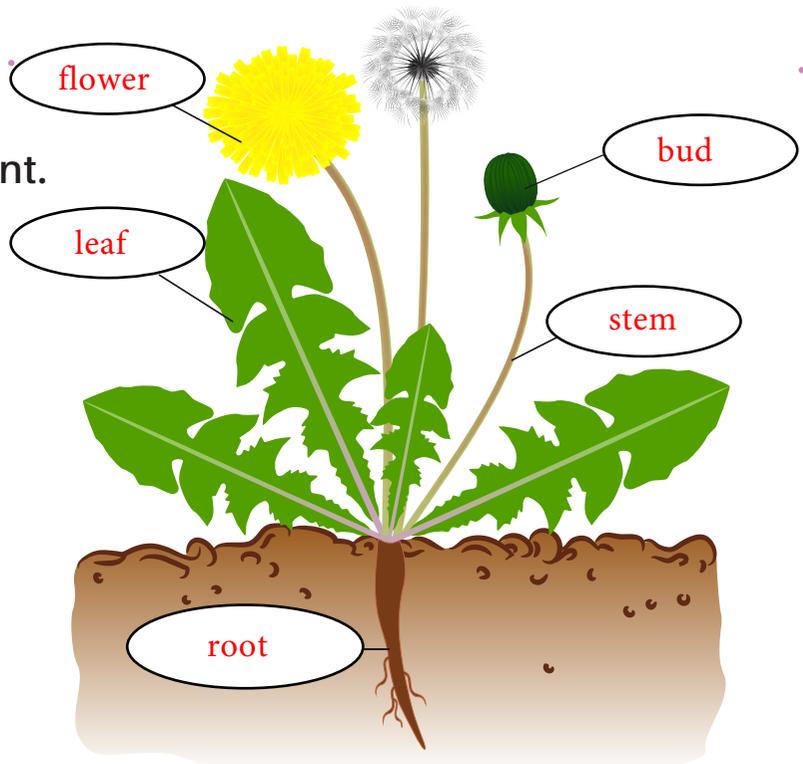


fern

Activities

1. Label the parts of the plant.

- flower
- bud
- stem
- leaf
- root



2. Draw arrows to show how water goes from the root to the leaf.

3. Draw the following plants.

(a) a herb

(b) a creeper

(c) a shrub

(d) a tree

Plants

4. Write the name of the kind of plant.

(a) h.e.r.b

(b) shr.u.b

(c) cre.e.p.e.r

(d) tree...

5. Write **S** for seed, **F** for fruit and **V** for vegetable in the boxes.

(a)



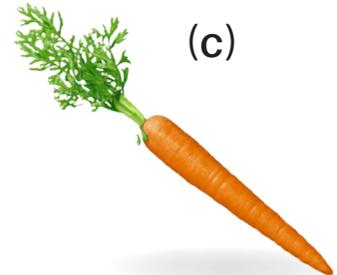
S

(b)



F

(c)



V

(d)



V

(e)



F

(f)



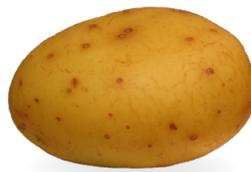
S

(g)



F

(h)



V

(i)



F

Plants

6. Draw matching lines to join the plant to the place where it grows.

	water lily	●	●
	cactus	●	●
	pine tree	●	●
	pondweed	●	●
	date palm	●	●

water
desert
cold places

7. Draw three things that are made from wood and write their names.

(a) house

(b) pencil

(c) table

Unit 4

Matter

matter

Matter is of many shapes.



Matter is of many colours.



Matter feels different.



Matter changes.



Matter

Matter is a
non-living thing.



Matter can be **solid, liquid or gas.**

Solid



A solid is **hard**.
A solid has a **fixed shape**.

Liquid

A liquid is **not hard**.
A liquid has no **fixed shape**.
A liquid can **flow**.



Gas



A gas is **not hard**.
A gas has no **fixed shape**.
A gas can move from
place to place.

Activities

1. Fill in the blanks.

- (a) All living things live on **earth**
- (b) All the things on Earth are made of..... **atoms**
- (c) Matter is of many **shapes** and **colors**
- (d) Matter is a **non-living** thing.

2. Pick out the living things and put a circle round them.



Matter

3. Write Yes or No.

- (a) A solid is hard. Yes
- (b) A liquid is hard. No
- (c) A gas is hard. No
- (d) A solid can flow. No
- (e) A liquid can flow. Yes
- (f) A gas can move from place to place. Yes
- (g) A solid has a fixed shape. Yes
- (h) A liquid has a fixed shape. No

4. From the list choose solids, liquids and gases.

milk - table - air - smoke - water - stone
steam - brick - mango juice

Solid

table

stone

brick

Liquid

milk

water

mango juice

Gas

air

smoke

steam

Watch out

Lily..... a poisonous plant

All parts of this plant can cause **pain** in the **mouth** when chewed.



Cactus plant



Be careful, Cactus plant has **spines** that are not only sharp and poky, but also **poisonous**.

Unit 5

Heat and Light

Heat and Light

Heat is very important to us.

The **Sun** gives us heat. It also gives us **light**.



A **bulb** gives out light and heat.



A **candle** gives out light and heat.



Fire also gives out light and heat.



Heat and Light

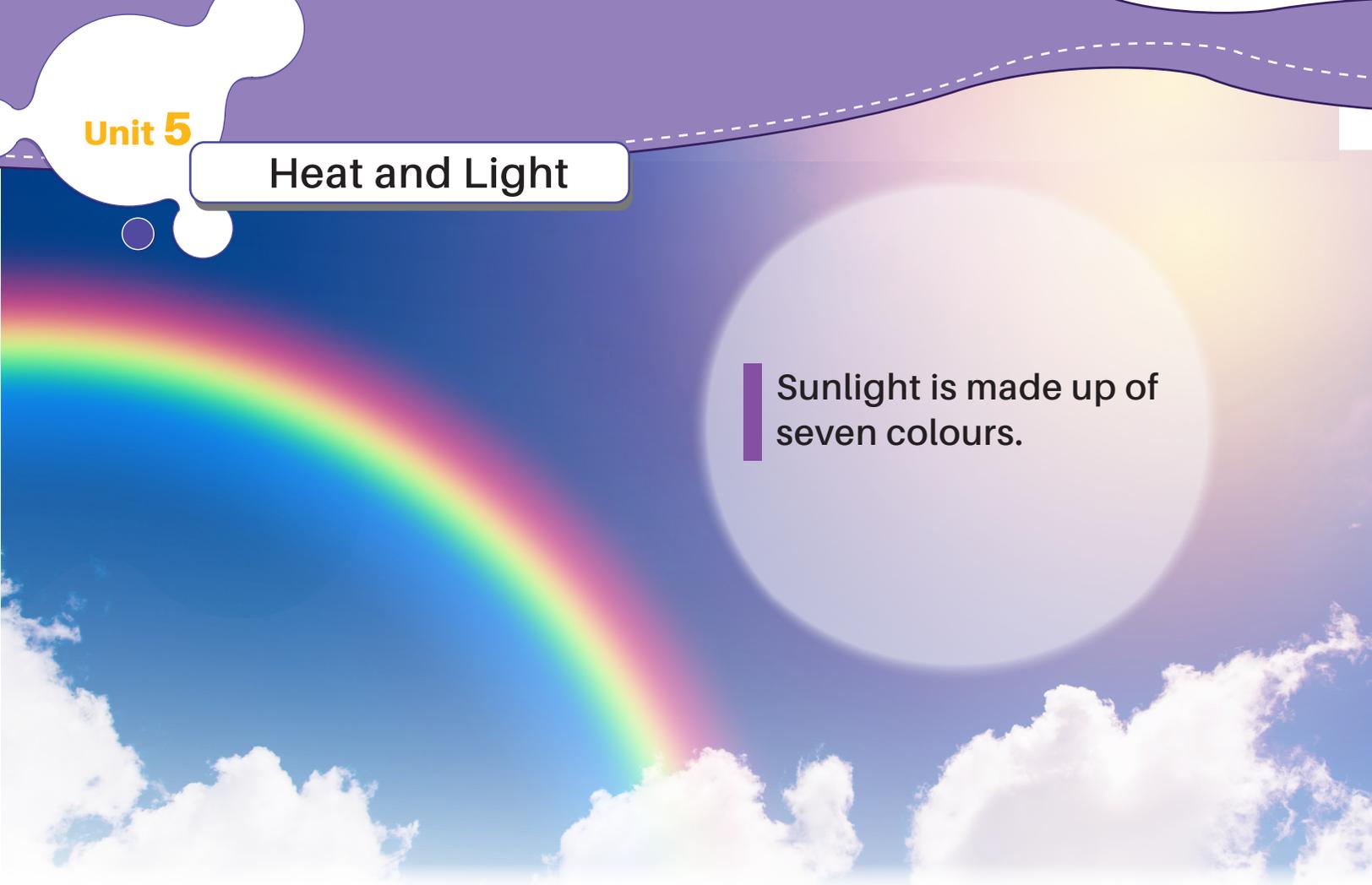
Light helps us to **see things**. We cannot see in the dark.



We need heat to keep us **warm** in winter.

We need heat to **cook** our food.



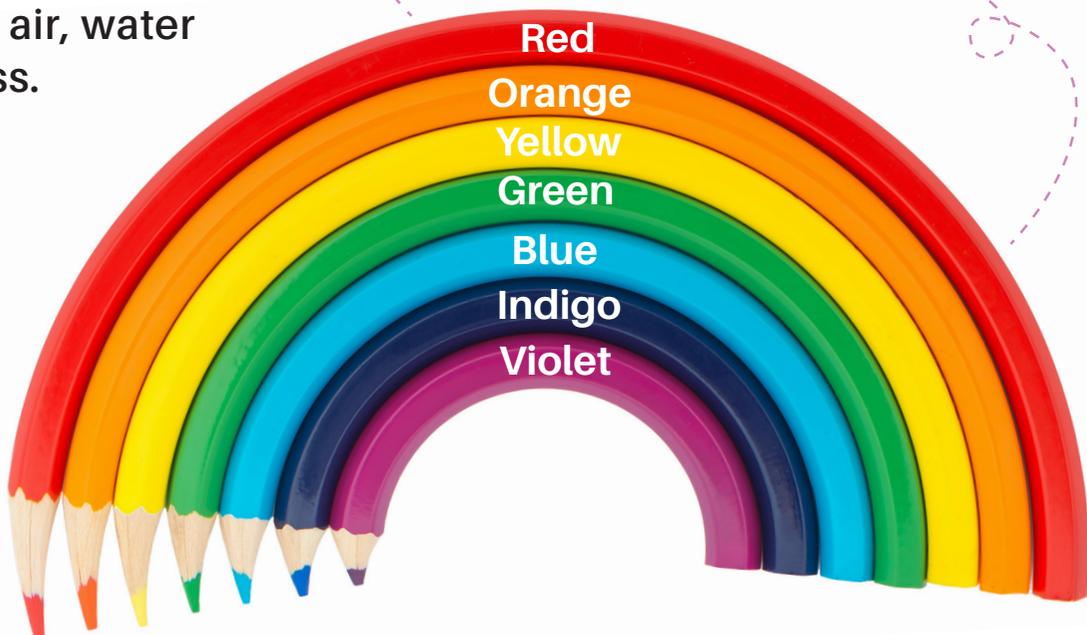


Sunlight is made up of seven colours.

We can see the **seven colours** of light in a rainbow.

Light **cannot pass** through wood, cardboard and rubber.

Light can **pass through** air, water and glass.



Activities

1. Write **Yes** or **No**.

(a) We can see in the dark.

No

(b) The Moon gives light to the Earth.

No

(c) Light helps us to see things.

Yes

(d) A candle gives out light.

Yes

(e) Sunlight is made up of five colours.

No

(f) Fire gives us heat.

Yes

(g) We need heat to keep us warm.

Yes

2. Draw a rainbow.

Heat and Light

3. Write the names of the seven colours of the rainbow.

(a) v*i*.ol*e*t

(b) i*n*digo*o*.

(c) blu*e*

(d) gr*e*en

(e) y*e*ll*o*w

(f) ora*n*ge*.*

(g) r*e*d

4. Write the names of things through which:

light can pass

(a)air.....

(b)water.....

(c)glass.....

light cannot pass

(a)wood.....

(b)cardboard.....

(c)rubber.....

5. Name two sources of heat.

(a)sun.....

(b)fire.....

6. Name two sources of light.

(a)bulb.....

(b)candle.....

Unit 6

Air



- Air is around us.
- We cannot see air but we can feel it.
- Rain comes from clouds.
- When the air is warm, we feel hot.
- Drops of water in the air make clouds.
- When the air is cold, we feel cold.

Air

All living things need air to **live**.



Birds and airplanes fly in the air.



Air

We fill balloons and tyres with air.



Air helps things to burn.



Wind helps things to move.



A strong wind is called a storm.

Moving air is called wind.

Activities

1. Write **Yes** or **No**.

- | | |
|---|-----|
| (a) Air is around us. | Yes |
| (b) We cannot see air. | Yes |
| (c) We cannot feel air. | No |
| (d) When the air is warm, we feel cold. | No |
| (e) Drops of water in air make clouds. | Yes |

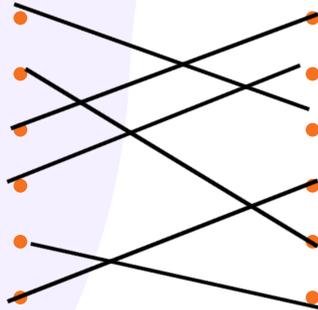
2. Match the items of list **A** to list **B**.

A

- (a) All living things
- (b) Insects and birds
- (c) We fill balloons and tyres
- (d) Air helps things
- (e) Moving air is called
- (f) A strong wind is called

B

- with air
- to burn
- need air
- a storm
- fly in the air
- wind



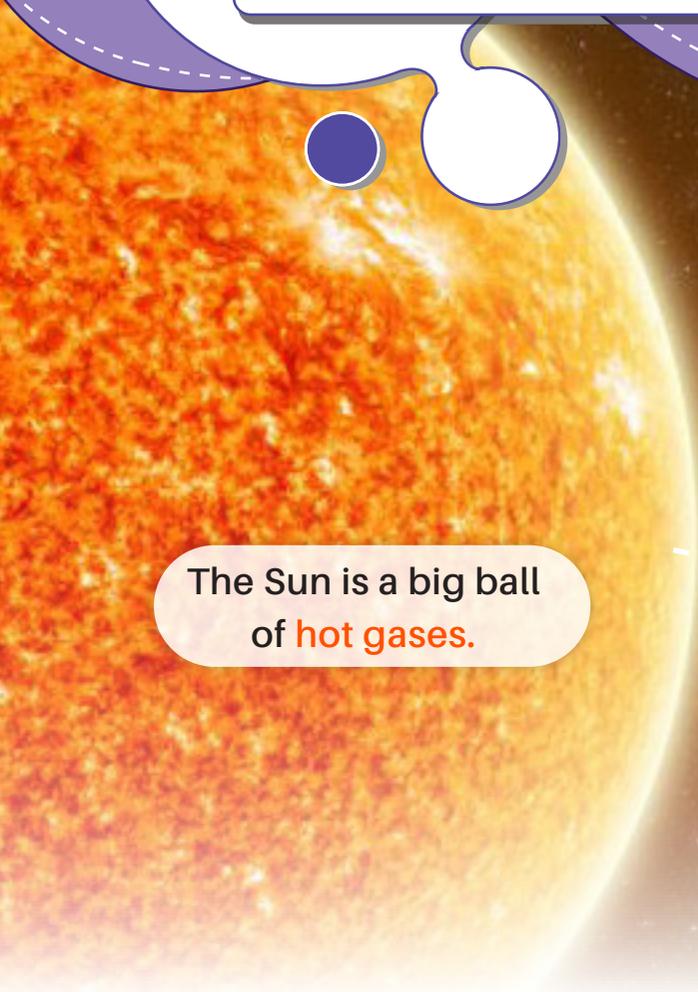
3. Draw

(a) a kite

(b) a sailing boat

Unit 7

The Sun and Stars



The Sun is a big ball of **hot gases**.

The Sun is **very far** from the Earth.



Sun

The Sun is in the **sky**.

It gives off **bright light**.

The Earth gets **heat and light** from the Sun.

We can see the Sun in the **daytime**.



The Sun and Stars

Stars



Stars are very far away.



The Sun is also a star.



Stars are big balls of hot gases.



Stars give off heat and light.

We can see stars in the sky at night.

Activities

1. Fill in the blanks.

- (a) We can see thesun..... in the daytime.
- (b) The Sun is veryfar..... from the Earth.
- (c) The Sun is a big ball of hotgases.....
- (d) The Sun gives off brightlight.....
- (e) We can seestars..... in the sky at night.

2. Draw the things that we can see in the sky at night.

3. Write Yes or No.

- (a) We can see stars in the daytime. No
- (b) Stars are near the Earth. No
- (c) Stars are big balls of burning gases. Yes
- (d) Stars do not give off light. No
- (e) The Sun is a star. Yes

Unit 8

The Moon

We can see the Moon in the sky at **night**.

The Moon is **close to** the Earth.

The Moon does **not give off** heat and light.

The **Sun shines** on the Moon.

We can see the **sunlight** on the Moon.



The Moon

- We can see **shapes** of the Moon.



New Moon



Half Moon



Full Moon

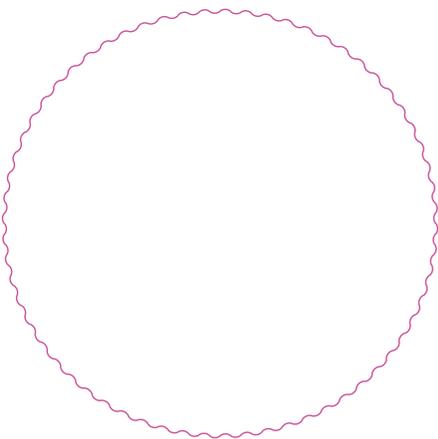
- The Moon has **no air or water**.
- **No one** lives on the Moon.

Activities

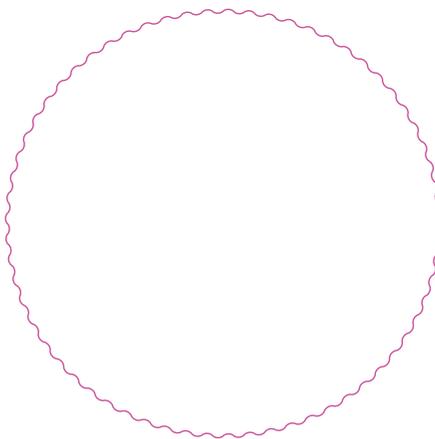
1. Write Yes or No.

- (a) The moon is far from Earth. No
- (b) The Sun shines on the Moon. Yes
- (c) We can see the Moon in the sky at day time. No
- (d) We can see shapes of the Moon. Yes
- (e) The Moon has air and water. No

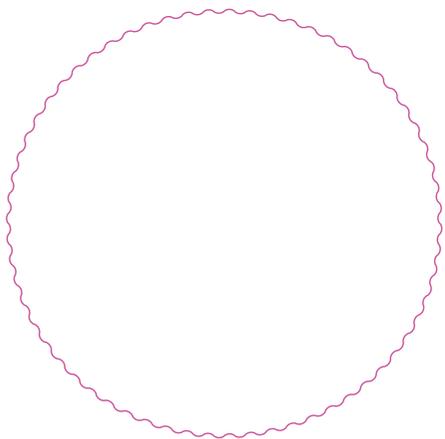
2. Draw the shapes of the Moon.



New Moon



Half Moon



Full Moon

3. Fill in the blanks.

- (a) The Moon has no air or **water**
- (b) There are no **living** things on the Moon.
- (c) The **Sun** shines on the Moon.
- (d) The Moon is close to the **Earth**
- (e) We can see the Moon at **night**

Unit 9

The Earth

- The Earth is **very big**.
- The Earth is like a **big ball**.
- The Earth has **land, water and air**.
- The Earth is a **planet**.



- The Earth goes **around** the Sun.
- The Earth gets **heat and light** from the Sun.
- The side that **faces the Sun** has day.
- The side that is **away from the Sun** has night.



The Earth

- The side from where the Sun rises is called the **east**.
- At midday the Sun is over our heads.
- We see the **Sun rising** in the **morning**.



- In the evening we see the Sun going down or **setting**.
- The **Sun sets** in the **west**.

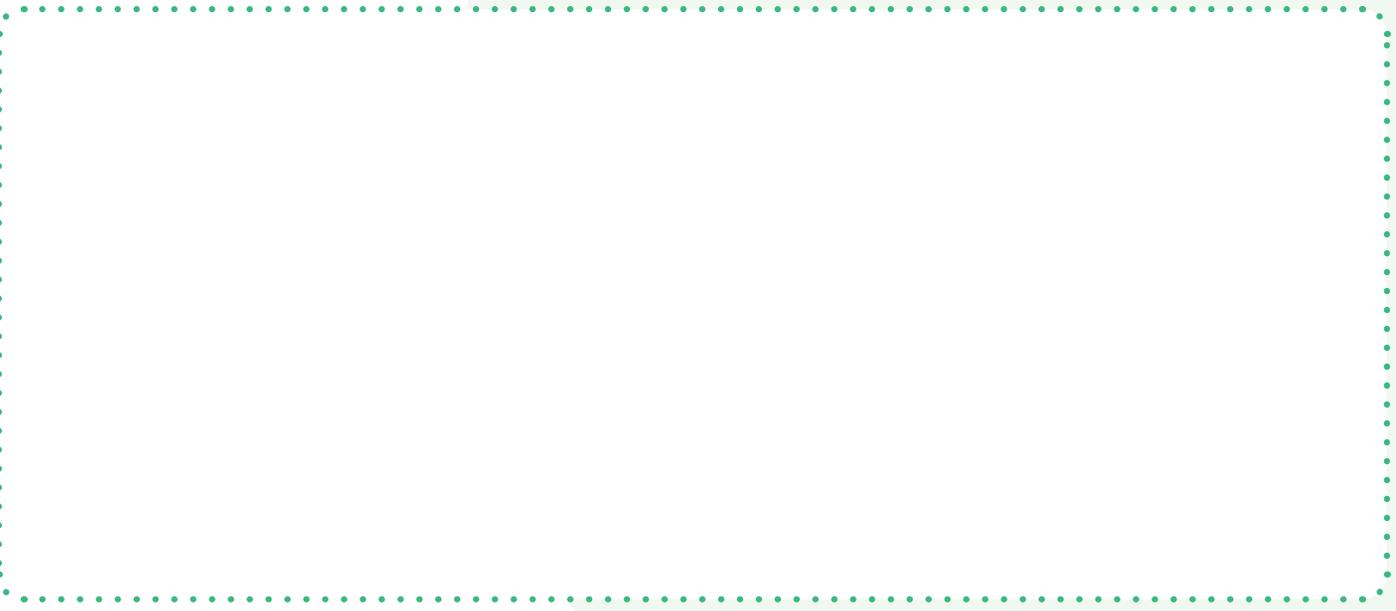


Activities

1. Choose the best answer.

- (a) The Earth is like a ~~big~~ small ball.
- (b) The Earth goes around the ~~Sun~~ Moon).
- (c) The Earth is a ~~star~~ planet.
- (d) The Earth gets light from the ~~Moon~~ Sun).
- (e) The Sun rises in the ~~west~~ east).

2. Draw and colour the Earth.



3. Fill in the blanks.

- (a) When the Sun rises it is ~~morning~~
- (b) When the Sun sets it is ~~evening~~
- (c) The Sun is over our heads at ~~midday~~
- (d) The side from where the Sun rises is the ~~east~~
- (e) The side where the Sun sets is the ~~west~~

- **Don't play with matches.** In fact, don't even pick them up. If you find matches or a lighter on the floor, be sure to tell an adult. This goes for candles, too.



- **Don't stare at the sun!** Parts of your eyes can be damaged by the sun, that's why it's a natural reaction to divert your eyes in bright sunlight.



Test Paper

1. Draw.

(a) an apple

(b) a leaf

2. Label the pictures.

stone

tortoise

football

jelly

horse



(a) stone....



(c) horse....



(d) football.



(b) tortoise...



(e) jelly....

3. Give one example of each.

(a) water animal

dolphin

(b) bird

parrot

(c) insect

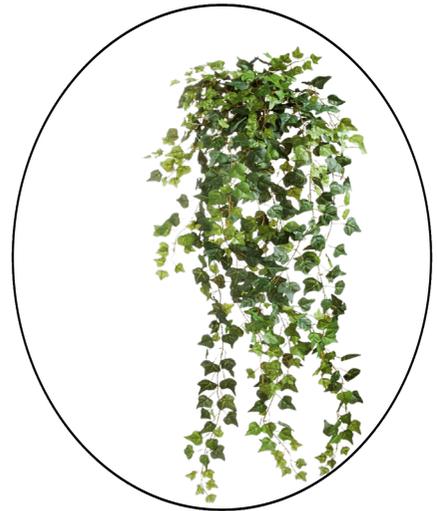
fly

Test Paper

4. Circle the correct answer.

- (a) A mouse is a **big** \ **small** animal.
- (b) A ladybird is an **insect** \ **bird**.
- (c) A horse pulls a **cart** \ **carries** heavy loads.
- (d) Wild animals live in the **forest** \ **water**.

5. Which of the following make their own food? Circle them.



6. Mark each sentence with a ✓ or a X.

(a) Herbs are small plants having short stems.



(b) A date palm is a water plant.

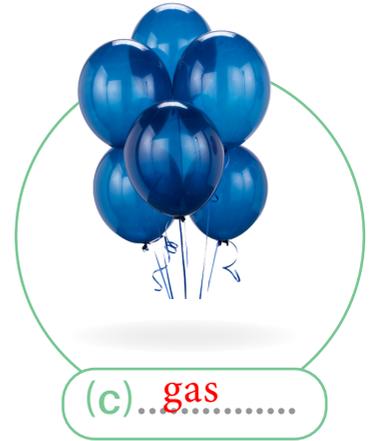
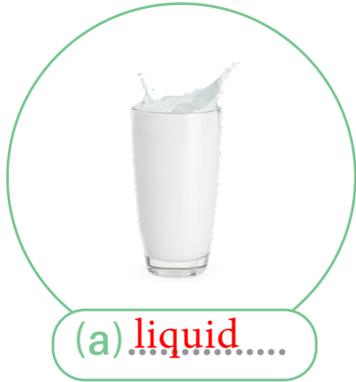


(c) Plants give us flowers, vegetables and fruits.



Test Paper

7. In the pictures below, mark the solid, liquid and gas.



8. Give examples of solids, liquids and gases.

Solids

(a) stone.....

(b) table.....

(c) chair.....

Liquids

(a) water.....

(b) juice.....

(c) milk.....

Gases

(a) air.....

(b) steam.....

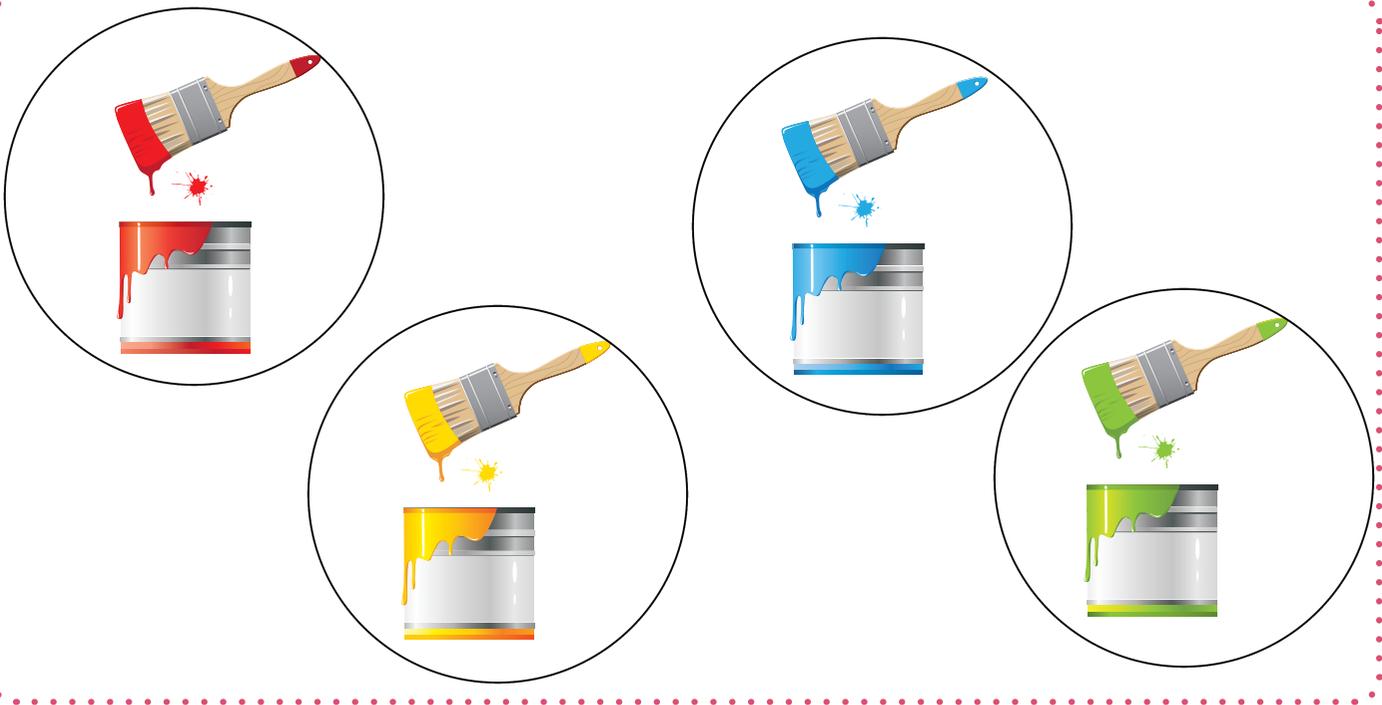
(c) smoke.....

Test Paper

9. Name three sources of heat and light.

- (a) sun
- (b) fire
- (c) candle

10. Which of these colours are present in the rainbow? Circle them.



11. Fill in the blanks with the suitable word.

- (a) We fill balloons and tyres with air
- (b) Drops of water in the air make clouds
- (c) A strong wind is called a storm

Test Paper

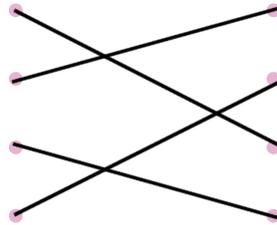
12. Match the sentences in list A with list B.

A

- (a) We can see Stars
- (b) We can see the Sun
- (c) The Earth gets heat and light
- (d) The Sun gives off

B

- in the daytime
- bright light
- at night
- from the Sun



13. What are these shapes of the Moon called?



(a) New Moon



(b) Half Moon



(c) Full Moon

14. Write five sentences about the Moon.

(a) We can see the Moon in the sky at night.

(b) The Moon is close to Earth.

(c) The Moon has no air or water.

(d) No one lives on the Moon.

(e) We can see shapes of the Moon.

Test Paper

15. Mark each sentence with a ✓ or a X.

(a) The Earth gets light and heat from the Stars.



(b) The Sun goes around the Earth.



(c) The Earth is like a big ball.



(d) We see the Sunset in the morning.



16. Draw a picture of a sunset. Colour it.

Glossary



Animals: living thing that can move.

Birds: animals that have feathers.



Earth: one of the eight planets that orbit, or travel around, the sun in the solar system.

Heat: to become warm.



Insects: animals that have three body parts and six legs.

Leaves: parts of the plant that use sunlight and air to make food



Light: type of energy that makes it possible for us to see the world around us.

Glossary



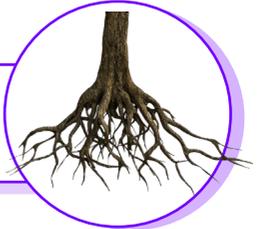
Matter: what all things are made of.

Moon: an object that circles around a planet.



Plants: living things that grow from the seeds.

Roots: parts of the plant that take in water from soil.



Science: the study of the world using our senses.

Sun: star that heats the earth 58.

