

Science - First Standard

Young children have keen minds but their attention span is very short. So it is very important for the teacher to make science interesting so that they grasp well. Keeping this in mind our Science book is more activity oriented and gives importance to 'learning by doing'.

So the teacher has to involve the child in every step and make sure that the concept is made very clear.

By taking the children for nature walks and by talking to them, and by involving them in group work, discussions etc. the teacher can make learning, fun.

We have provided notes to teachers in the text book which will help the teacher make Science simple and at the same time very interesting to the children.

Living And Non - Living Things

Exercises

- Write living/ non-living:
Living - tree, lotus, fish, bird, tree stump.
Non-living - sun, aeroplane, clouds, water,
- Look at the pictures and group them.
baby kite lizard plant car cat chair
These grow - baby, lizard, plant, cat
These don't grow - kite car chair
- Match the following by drawing lines.
Clue - (Living things need food and water to grow)

A	B
1. Boy eats	b. rice.
2. Tree needs	a. sun, water and soil.
3. Frog eats	d. insects.
4. Lion feeds on	f. deer.
5. Rabbit loves	c. carrots.

6. Butterfly drinks e. nectar from flowers.

4. Match the following by drawing lines.

- b. lays eggs
- a. non-living
- d. puppy
- c. seeds

5. Complete the following.

Living things can move, grow, eat, drink and have babies.

Non-living things cannot move, grow, eat, drink or have babies.

Worksheet (Workbook)

- plant, girl, clouds, sun, butterflies, balloon, flowers, fish, lotus, paper boat, water, grass.
Living things - plant, girl, butterflies, flowers, fish, lotus, grass.
Non-living things - clouds, sun, paper boat, balloon, water.
- Put '✓' for correct and 'X' for wrong statements.
1. 'X' 2. '✓' 3. 'X' 4. '✓' 5. '✓' 6. 'X' 7. '✓'
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Plants

Exercises

- Fill in the blanks:
 - The part of the plant that grows above the soil stem. (stem / root)
 - Flowers grow into fruits. (bud / fruits)
 - Plants make their own food in leaves. (leaves / root)
 - Seeds grow into plant. (fruits / plant)
 - Fruits have seeds in them. (seeds / leaf)
- Match the following:

- a. Leaves 5. plants make their own food in them.
- b. Fruits 1. have seeds in them.
- c. Flowers 4. change into fruits.
- d. Seeds 3. grow into new plant.
- e. Stem 2. bears the leaves and grows above the soil.

4. State true or false. (✓ or X)

- a. Stem fixes the plant to the soil. **X**
- b. Big plants are called trees. ✓
- c. Leaves are only green in colour. **X**
- d. Plants are living things. ✓
- e. Plants do not need food and water for growth. **X**

1. Name and colour the following:

- 1) grapes 2) mango 3) leaf 4) tree

2. Fill in the blanks:

- a) living b) air, water, sunlight c) trees
d) below e) green

3. Circle the food we get from plants:

tomato, wheat, pumpkin, apple, rice, chilli, brinjal, coconut, mango, carrot, banana, potato, guava, corn.

Review Exercises

1. Circle the odd member:

- a) cat b) water c) grass d) banana e) sunflower f) ant.

2. a) living b) trunks c) root d) seeds e) plant f) fruits.
g) edible.

Animals

Write 'L' for land animals, 'W' for water animals and 'B' for animals that live both on land and in water.

Giraffe -L Kangaroo - L Fish - W Tortoise -B
Shark - W Frog - B Crocodile - B Walrus - W Fox- L

Exercises

1. From the pictures given, circle the wild animals.

lion cow zebra bear
cat leopard horse giraffe

2. Write 'yes' or 'no'.

- a. Insects have six legs. Yes
- b. Fish has wings. No
- c. Butterfly is an insect. Yes
- d. Birds have two legs. Yes
- e. Frog lives on land and in water. Yes
- f. Pigeon is an insect. No

3. Circle the odd member in each group.

- a. cow cat lion dog
- b. crow parrot rat pigeon
- c. lion tiger dog elephant
- d. crow grasshopper bee butterfly
- e. frog tortoise crocodile fish

4. Match the following by drawing lines.

- a. An animal which lives only in water. fish
- b. This is an insect. housefly
- c. An animal which lives in water and on land. frog
- d. A wild animal. leopard
- e. An animal which eats only plants. cow

5. Match the following by drawing lines.

- 1. Dog guards the house.
- 2. Hen lays eggs.
- 3. Horse pulls carts.
- 4. Cat catches the mouse.
- 5. Cow gives milk.

6. Help the children find their mothers.

- | | |
|----------------|--------------|
| 1. ducklings | b. duck |
| 2. joey | a. kangaroo |
| 3. caterpillar | e. butterfly |
| 4. tadpole | c. frog |
| 5. foal | f. donkey |
| 6. puppy | d. dog |
| 7. chicks | h. hen |
| 8. cub | g. bear |

7. Ant, grasshopper, housefly, dragonfly.
8. Which of these animals swim ? Circle them.
 (turtle) owl (fish) housefly bat (dolphin)

Worksheet (Workbook)

1. Underline the right word:
 a) in water b) sparrow c) bee
 d) Lion e) bird f) caterpillar
2. Many animals eat only plants. Help these animals find their food by drawing lines:
 rabbit - carrot cow-grass
 caterpillar- leaf giraffe-tree
3. Write 'true' or 'false' in the box:
 a) false b) true c) false d) true e) false f) true
4. What do these animals eat ?
 b) small animals c) frog d) insects
 e) worms f) grass
5. Write the names of all these insects:
 housefly honeybee mosquito
 ant butterfly grasshopper
6. Fill in the blanks:
 a) small b) six c) green
 d) mosquito e) honey f) colourful
- 7.

8. Fill in the blanks:
 a) feather b) fly c) two
 d) wings e) eggs f) hen

My Body

Exercise

Look at me and fill in the boxes given below :

- I have hands. I have fingers.
 I have legs. I have shoulders.
 I have toes. I have stomach.

Worksheet (Workbook)

1. Choose the correct words from the following and fill in the boxes: - head, ear, neck, hand, stomach, leg, hair, shoulder, fingers
3. a) to hear music b) to hold a pencil
 c) to run fast d) to see everything
 e) to smell a flower f) to taste the food

Good Health

Exercises

1. Write 'Yes' or 'No' in the box.
- | | |
|---------------------------------------|-----|
| a. We should not drink much water. | No |
| b. We should exercise everyday. | Yes |
| c. We rest when we feel tired. | Yes |
| d. We brush our teeth once in a week. | No |
| e. Swimming is a good exercise. | Yes |
2. Match the following by drawing lines.
- | | |
|------------------------|----------------------|
| A | B |
| a. Wear | 3. clean clothes. |
| b. Before going to bed | 5. brush your teeth. |
| c. Without rest | 1. we may fall sick. |

- d. Playing is a 2. good exercise.
e. Sleep for 4. 8 to 10 hours.

Worksheet (Workbook)

- Read the statements and put '✓' 'X'
a) '✓' b) 'X' c) 'X' d) '✓' e) '✓' f) 'X'
- See the pictures and write what the children are doing.
riding a cycle swimming eating food
having a bath running brushing teeth

Review Exercises

- Circle the odd member out.
a) watching television b) wear dirty clothes
c) stomach d) impure water
- Put '✓' for correct and 'X' for wrong statements.
a) 'X' b) '✓' c) '✓' d) 'X' e) '✓' f) 'X' g) '✓'

Water

Exercises

- Name three sources of water.
Rain, Well, lakes.
- Give three uses of water.
Drinking, bathing, washing.
- Match the following.

A	B
1. sea water	salt
2. clouds	rain
3. water plant	lotus
4. fish	water
- Fill in the blanks. (water, live, cooking, clean, fish)
 - We cannot live without water.
 - Water is found in wells.

- c. We should drink clean water.
d. Water is needed for cooking.
e. Fish will die when taken out of water.

Worksheet (Workbook)

- Water is found in : well lake sea river
- We use water for :
putting out a fire washing drinking
bathing cooking

Air

Exercises

- What is wind?
Wind is moving air.
- Give two uses of air.
 - Plants and animals need air to live.
 - Plants need air to make food.
- Fill in the blanks. (die, boats, living, wind)
 - Air helps to sail boats.
 - Frog kept in a closed bottle will die.
 - All living things need air.
 - When air moves it is called wind.
- Write 'Yes' or 'No'.
 - Tom can feel air. Yes
 - Mother can see air. No
 - Fish will die if taken out of water. Yes
 - Plants breathe. Yes
 - We can live without air. No
- Here are pictures of six things. Which of these need air? Circle them.
 (insect) clothes (fish) timepiece (horse) (tree)

Worksheet (Workbook)

- See the pictures and write which need air to live and

which need air to move:

Need air to live - plant, dog, man, fish, cockroach

Need air to move - kite, boat, balloon, clouds

2. Fill in the blanks:

a) wind b) feel c) air d) living e) food

Earth

Exercises

- Search for the words from the lesson and fill in the blanks.
 - The earth goes round the sun.
 - The earth takes one day to spin round once.
 - There is water and air on earth.
 - There is no water and air on moon.
 - The sun is a star.
- Match the following.

a. Without the sun	3. there will be no life on earth
b. Moon	2. goes round the earth
c. Smaller than sun	1. earth
d. Spinning of earth	5. 1 day
e. No life	4. on moon
- Name the following.
 - They are many in number. We cannot count them. We can see them in the sky at night. They are very far away. stars
 - It gives us heat and light. It is a star. Because it is there we have plants and animals on earth. sun
- Underline the right word given in bracket.
 - (Moon / star) has no light of its own.
 - Sun makes the day (hot / cold).
 - The sun is (bigger / smaller) than the earth.
 - The earth is (smaller / bigger) than the moon.

e. Moon shines during (day / night).

f. The earth takes (1 day / 1 year) to spin round once.

g. The earth takes (1 day / 1 year) to go round the sun.

5. State 'True or False' (✓ or X).

- There is life on moon. X
- There is life on earth because there is air, water, heat and light. ✓
- The earth gets light and heat from the moon. X
- The Sun is a star. ✓

Worksheet (Workbook)

- Match the following

a) we live here	b) no light of its own
c) gives heat and light	d) are very far away
- Underline the correct words:

a) sun	b) <u>no light</u>	c) <u>sun</u>
d) <u>moon</u>	e) <u>sun</u>	f) <u>earth</u>
- Fill in the blanks:

a) moon	b) light	c) round
d) living	e) sun	

Review Exercises

- Which of these need water to live ? Circle and colour them.
Lion, elephant, tree
- Fill in the blanks:

a) earth	b) land, water	c) air
d) one	e) sun	f) moon