

Science Sight

Teacher Manual

2



Class-2
Chapter-1 Plants Around Us
Exercise

- A.** 1. (c) 2. (a) 3. (b) 4. (c)
5. (c)
- B.** 1. fruit 2. leaves 3. Flower
4. Creepers 5. day 6. support
- C.** 1. Lotus Grass Tomato
2. Cotton Rose Tulsi
3. Pea plant Money Plant Bean Plant
4. Cactus Date Palm
- D.** 1. Plants give us oxygen, shade, wood, fruits and vegetables.
2. Plants which have thick and thin stems are called climbers. They need a support to stand erect.
3. Desert plants can live without water for many days.
4. Stems carry water to the different parts of the plants and flower grow to become fruit. Fruit has seeds.

Let's Do

1. ✓ 2. ✗

First plant will be able to make its own food because sunlight is necessary to make food.

Observation

Do it yourself.

HOTS

- A.** If there were no plants. We would not get oxygen, fruits and vegetables.
B. If there were no stem, water could not reach every part of the plants.

Fun Corner

Do it yourself.

Chapter-2 Uses of Plants

Exercise

- A.** 1. (a) 2. (a) 3. (a) 4. (b)
- B.** 1. ✓ 2. ✗ 3. ✓ 4. ✓
5. ✗ 6. ✓ 7. ✓ 8. ✓
9. ✓
- C.** 1. Teak 2. Neem 3. Cotton plant
4. Rubber plant 5. Wheat
- D.** 1. We get fruits, vegetables, cereals, pulses, fibre, paper, rubber, wood etc from plants.
2. Cabbage, spinach, lettuce.
3. Teak and sheesham are good sources of wood.

4. Cloves, Turmeric, pepper, cinnamon and cardamom.
- E.**
- | | |
|-------------|---------|
| 1. Banana | Grapes |
| 2. Bags | Carpets |
| 3. Wheat | Rice |
| 4. Turmeric | Pepper |

Let's Do

Do it yourself.

Observation

Do it yourself.

HOTS

- A.** We get vegetable oil from mustard, coconut, sunflower and olive.
- B.** Wood is used to make furniture. We make windows, doors and desks from wood.

Fun Corner

Do it yourself.

Creativity

Do it yourself.

Chapter-3 Uses of Animals

Exercise

- A.**
- | | | | |
|--------|--------|--------|--------|
| 1. (c) | 2. (b) | 3. (b) | 4. (b) |
| 5. (c) | | | |
- B.**
- | | | | |
|--------|---------|-------------|----------|
| 1. Hen | 2. Goat | 3. Honeybee | 4. Sheep |
|--------|---------|-------------|----------|
- C.**
- | | | | |
|---------|------------|----------|---------|
| 1. Cow | 2. egg | 3. Horse | 4. milk |
| 5. home | 6. Leather | | |
- D.**
- Animals that are kept near our homes or in farms are called domestic animals. For example- cow, hen etc.
 - Animals those are kept in our homes are called pet animals. Example- dogs, cats.
 - Animals like elephant, horse, camel and donkey carry loads for us.
 - Goat gives us milk and meat both.
 - Domestic animals such as cows and buffalos give us milk, Hen gives us egg and sheep gives us wool.

Let's Do

- A.** Do it yourself.
- B.** Do it yourself.

Observation

Do it yourself.

HOTS

Camel

Chapter-4 Wild Animals

Exercise

- A.** 1. (a) 2. (b) 3. (c) 4. (a)
5. (a)
- B.** 1. (b) 2. (a) 3. (d) 4. (e)
5. (f) 6. (c)
- C.** 1. Animals that live in forests are called wild animals.
2. Lions and tigers live in dens.
3. Those animals who eat left overs of dead animals are called Scavengers. Example- vulture, hyena.
4. Those animals that have become very few in numbers are called endangered animals. For example: panda, rhinoceros and tiger.
5. Animals who eat both plants and animals are called omnivores. For eg: bear, cat and crow.

Let's Do

- A.** Do it yourself.
- B.** 1. Tiger 2. Giraffe 3. Bear 4. Vulture
5. Chimpanzee

HOTS

Jackals are scavengers and they eat left overs of dead animals. In this way they help in cleaning the jungle.

Creativity

Do it yourself.

Chapter-5 Bones and Muscles

Exercise

- A.** 1. (b) 2. (b) 3. (a) 4. (c)
- B.** 1. Brain 2. Cardiac 3. Framework 4. Joint
- C.** 1. T 2. T 3. F 4. T
- D.** 1. The framework of bones is called skeleton. It protect the important part of our body such as lungs, brain, liver and heart.
2. Muscles help our bones to move. They help us in working, running, cycling, swimming and in many other things.
3. Doing exercise daily make our muscle strong.
4. Good posture helps all the parts of our body to work properly. It makes us look smart.

Let's Do

- A.** Do it yourself.
B. Do it yourself.

Observation

Do it yourself.

HOTS

People join gyms to stay fit and to make their muscles strong.

Chapter-6 Food for Good Health

Exercise

- A. 1. (b) 2. (c) 3. (a) 4. (a)
B. 1. (c) 2. (d) 3. (a) 4. (b)
C. 1. F 2. T 3. F 4. F
5. F
- D. 1. The food that gives us energy is called energy-giving food. For example- wheat, rice, butter etc.
2. Water help us to digest the food. We should drink 6-8 glasses of water everyday.
3. The food that protects us from diseases are called protective food. For example- apple, Banana, green vegetables.

Let's Do

Do it yourself.

Observation

Do it yourself.

HOTS

Deepak is active because he eats food properly. He takes diet that contain all the nutrients where as Rohit might not be taking proper meals, he might be eating junk food a lot.

Fun Corner

Do it yourself.

Chapter-7 Houses and Clothes

Exercise

- A. 1. (c) 2. (a) 3. (c) 4. (c)
5. (c)
- B. 1. Raincoats 2. Caravans 3. Tent
4. Sloping roofs
- C. 1. F 2. T 3. F 4. T
- D. 1. We wear clothes to protect ourselves from heat, cold and rain and to cover our body.
2. We wear cotton clothes in summer because they keep us cool.
3. Houseboats are made on boats whereas caravans are made on wheels.
4. In areas having heavy rainfall have sloping roofs as this helps the rainwater or snow to slip down from such roofs.

Let's Do

A. Do it yourself.

B. Do it yourself.

Observation

Do it yourself.

Creativity

Do it yourself.

Chapter-8 Things Around Us

Exercise

- A.** 1. (a) 2. (a) 3. (c) 4. (a)
5. (c)
- B.** 1. T 2. T 3. F 4. F
- C.** 1. Plants Human beings
2. Utensils Cars
3. Gloves Tyres
4. Combs Bottles
- D.** 1. The things that are made by God or nature are called natural things. These things can be living or non-living.
2. The things that are made by man are called man-made things. For eg: doll, car etc.
3. Living things can grow, move on their own, and eat whereas non living things cannot grow, eat and move on their own.
4. Plastic - Bottle
Rubber - Gloves
Woods - Chair

Fun Corner

Do it yourself.

HOTS

- A.** I can eat but computer can't.
B. No, we are not made up of material.

Chapter-9 Rocks and Minerals

Exercise

- A.** 1. (c) 2. (c) 3. (c) 4. (b)
- B.** 1. (b) 2. (a) 3. (d) 4. (e)
5. (c)
- C.** 1. (a) China clay (b) Iron (c) Silica
2. (a) Ruby (b) Garnet (c) Emerald
3. (a) Chalk (b) Slate (c) Coal
- D.** 1. Quartz 2. Granite 3. Graphite 4. Coal
- E.** 1. Coal and Chalk
2. All rocks are made up of minerals.
Two uses :- (i) Iron is used to make nails.
 (ii) Silica is used to make mirrors.
3. Our Earth is made up of rocks and minerals.

Observation

Do it yourself.

HOTS

Marble is a hard rock whereas chalk is a soft rock therefore, marble is used to make floors.

Chapter-10 Air Around Us**Exercise**

- A.** 1. (b) 2. (b) 3. (b) 4. (b)
5. (c)
- B.** 1. F 2. T 3. F 4. F
- C.** 1. touch 2. water vapour 3. dust particles
4. impure 5. diseases
- D.** 1. Smoke comes out when something is burnt. Smoke also comes from houses, buildings, factories etc .
2. Dust, smoke and gums make the air impure or polluted. This is called air pollution. It is bad for us as it is the source of many diseases.
3. Air is a mixture of gases. It contains water vapour, dust and smoke.
4. (i) Air fills space.
(ii) Air gives shape to things.
(iii) Air has weight.

Let's Do

Do it yourself.

Observation

Do it yourself.

HOTS

We must cover our mouth while sneezing or coughing because cough and cold are infectious diseases, this may spread to another person.

Creativity

Do it yourself.

Chapter- 11 Moving Air**Exercise**

- A.** 1. (a) 2. (a) 3. (a) 4. (c)
B. 1. breeze 2. Green plants 3. wind 4. move
5. Pure
- C.** 1. (d) 2. (a) 3. (b) 4. (e)
5. (c)
- D.** 1. When wind is strong and blows very fast, it is called storm. It is harmful as it can cause damage to houses and trees.
2. Moving air is called wind.

3. When the leaves move or when the things are blown away we can say that wind is blowing.
4. (i) Wind helps to move the windmill.
(ii) Wind helps to make a sailboat move.
(iii) Wind help us in flying kite.

Let's Do

Do it yourself.

HOTS

Inflated balloon is heavier because it has air inside and air has weight.

Chapter- 12 Water and Water Cycle

Exercise

- | | | | |
|---|-----------|--------|--------------|
| A. 1. (c)
5. (b) | 2. (c) | 3. (c) | 4. (c) |
| B. 1. F
5. F | 2. T | 3. T | 4. F |
| C. 1. rain water
5. Steam | 2. Impure | 3. tap | 4. purifying |
| D. 1. (c) | 2. (a) | 3. (d) | 4. (b) |
| E. 1. Water is essential part of our life.
(i) We need water to drink.
(ii) We need water to bath.
(iii) Plants need water to grow.
2. Rain, river and ponds are the different sources of water.
3. We should clean water before drinking because water in our homes come from river and lakes and it contains impurities. So we should clean it either by boiling or by purifying it.
4. The three forms of water are- solid, liquid and gas. | | | |

Let's Do

Do it yourself.

Observation

Do it yourself

HOTS

We should keep ice tray in freezers because it changes water into ice.

Fun Corner

Do it yourself.

Creativity

Do it yourself.

Chapter- 13 Sun, Moon and Shadow

Exercise

- A.** 1. (a) 2. (a) 3. (b) 4. (b)
5. (a) 6. (a) 7. (b) 8. (b)
- B.** 1. T 2. T 3. F 4. T
5. T
- C.** 1. long 2. moon 3. opposite
4. shortest
- D.** 1. Sun is the most powerful and natural source of light whereas tubelight, lantern etc are also some man-made sources of light.
2. Sun looks like a big ball of fire.
3. Shadow is a dark patch that appears on a surface when someone or something moves between the surface and a source of light.
4. Our shadow is shortest in afternoon.
5. At night, the shadow is formed by the moonlight, electric lamp, bulb etc.

Let's Do

Do it yourself.

Observation

Do it yourself.

Fun Corner

Do it yourself.

Creativity

Do it yourself.

Model Test Paper-I

- A.** 1. (a) 2. (b) 3. (a) 4. (b)
5. (a) 6. (b)
- B.** 1. Cow 2. Horse 3. fruit 4. leaves
- C.** 1. ✓ 2. ✗ 3. ✓ 4. ✗
- D.** 1. Date Palm
2. Lotus Hydrilla
3. Rose Cotton
- E.** 1. (c) 2. (d) 3. (b) 4. (a)
5. (f) 6. (e)
- F.** 1. The food that gives us energy is called energy-giving food. For eg: wheat, rice, butter etc.
2. Framework of bones is called skeleton.
3. Animals that live in forests are called wild animals.
4. Goat gives us milk and meat both.
5. Cloves, pepper, turmeric etc are obtained from plants.
6. Teak and Sheesham are good to make furniture.

- G.** 1. (i) Plants give us oxygen .
 (ii) Plants give us fruits and vegetables.
 (iii) Wood is obtained from plants.
2. Stem carry water to different parts of the plants and flowers grow to become fruit, fruit has seeds.
3. Animals like dogs and cats are brought up at home for companionship and protection. There are farm animals reared for their products like milk, egg, meat and fur. Some animals like cow, buffalo, horse etc. are trained to help in transport and agriculture.

Model Test Paper-II

- A.** 1. (a) 2. (a) 3. (c) 4. (b)
 5. (b) 6. (c)
- B.** 1. Impure 2. long 3. Lamp 4. water vapour
 5. touch 6. dust particles
- C.** 1. F 2. T 3. T 4. F
- D.** 1. Sloping roof 2. Tent 3. Caravan
- E.** 1. China clay 2. Iron
- F.** 1. All rocks are made up of minerals. Minerals are of different shape, size and colour.
 2. Dust, smoke or germs make the air polluted. This is called air pollution.
 3. Moving air is called wind.
 4. Shadow formed at night is long.
 5. We wear cotton clothes in summer because they keep us cool.
 6. Things made by human beings are called man-made things. For eg- books, pencil etc.
- G.** 1. Iron- It is used to make nails.
 China clay - It is used to make statues.
2. Minerals are used to make nails, statues and pencils.
3. (i) Air fills space.
 (ii) Air gives shape to things.
 (iii) Air has weight.