

Sense & Science



2
GRADE



1. Plants Around Us

Exercise

- A. 1. (c); 2. (c); 3. (c); 4. (c).
- B. 1. jamun; 2. cotton; 3. spinach.
- C. 1. Banyan tree; Neem tree.
2. Some animals that live on trees are monkeys, birds and squirrels.
3. Climbers need support to grow straight because they have weak stems.
4. Bottle gourd; Watermelon.
- D. 1. Most birds make their nests on trees and not shrubs because they are small and so, they can be killed and eaten by their enemies.
2. We can easily pluck peas from its plant but not a coconut from its tree because pea plant is small but the coconut tree is very tall.
- E. Do it yourself.
- F. Do it yourself.
- G. ★ pluck flowers? **NO**
★ water plants? **YES**
★ write on the trunks of trees? **NO**
★ trample soft plants? **NO**
★ walk on the grass? **YES**
- H. Do it yourself.
- I. 48.
- J. Do it yourself.



2. Gifts from Plants

Exercise

- A. 1. (b); 2. (a); 3. (b); 4. (c).
- B. 1. **SUGAR** 2. **BAMBOO** 3. **COFFEE** 4. **KEEKAR**
5. **GUM**
- C. 1. steel 2. coffee 3. salt
4. rubber 5. plastic 6. cotton
7. jute 8. tin 9. glass
- D. 1. We obtain food, fibres, wood, oil, paper, gum, rubber, medicines, sugar, tea, coffee and perfumes.

2. We use fibres to make cloth, ropes, sacks and mats.
 3. Five things made of wood are pencils, door, windows, bats and furniture.
- E.
1. All kinds of flowers are not used to make perfumes because all are not sweet-smelling.
 2. Three things made from plants which we take with us to school everyday are pencils, our clothes and food.

F.



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| P | I | N | E | A | P | P | L | E | I | K |
| U | W | H | E | A | T | T | C | F | R | P |
| L | B | A | S | S | O | K | O | R | I | N |
| S | E | A | P | P | L | E | C | Y | C | G |
| C | A | U | L | I | F | L | O | W | E | R |
| O | N | N | T | N | O | S | N | N | B | A |
| R | S | A | W | A | L | N | U | T | S | P |
| N | I | N | E | C | N | S | T | Z | Q | E |
| B | C | A | S | H | E | W | N | U | T | S |



Fruits

Nuts

Vegetables

Foodgrains

- | | | | |
|--------------|--------------|----------------|-----------|
| 1. grapes | 4. cashewnut | 7. cauliflower | 10. wheat |
| 2. pineapple | 5. walnut | 8. beans | 11. rice |
| 3. apple | 6. coconut | 9. spinach | 12. corn |

- G. ★ I do not tear out pages from my exercise books. (✓)
 ★ I write on both sides of paper. (✓)
 ★ I reuse paper bags. (✓)
 ★ I buy greeting cards made of recycled paper. (✓)
- H. Do it yourself.
- I. Do it yourself.
- J. Do it yourself.



3. Gifts from Animals

Exercise

- A. 1. (b); 2. (c); 3. (a); 4. (b).
- B. 1. T; 2. F; 3. F; 4. T.
- C. 1. Buffaloes and cow are two farm animals.
 2. Meat of Chicken, buffalo, sheep, goat and pig is eaten by people.
 3. Sarees, shirts and scarves are made from silk.
 4. We should treat animals with gentleness and kindness.

- D. Virat's grandparents have kept cows, buffaloes, goats, hens and ducks are their farm.
- E. Do it yourself.
- F. Do it yourself.
- G. ❖ If you have a dog as a pet, you will feed it **YES**.
 ❖ If you have a cat as a pet, you will feed it **YES**.
 ❖ If you have a parrot as a pet, you will feed it **YES**.
- H. 1. Two little dicky **(birds) sitting** on a wall.
 2. Hickory Dickory Dock, the **(mouse) ran** up the clock.
 3. Higgledey Piggledy, my black **(hen)**.
 She **lays** eggs for gentlemen.
 4. Baa, baa, black **(sheep)**, **have** you any wool?
- I. Do it yourself.



4. Wild Animals

Exercise

- A. 1. (a); 2. (c); 3. (c); 4. (b).
- B. 1. mongoose (F) 2. deer (P) 3. hyena (F) 4. lion (F)
 5. rhino (P) 6. bear (F) 7. dog (F) 8. cat (F)
 9. panther (F) 10. duck (P) 11. cow (P) 12. snake (F)
- C. 1. CAVE 2. TREE 3. HOLE 4. NEST
- D. 1. Wild animals live in the forest.
 2. The lions live in dens.
 3. Birds builds nests to lay eggs and keep their babies safe.
 4. Two animals which eat other animals for food are lions and tigers.
 5. Hyenas eat the flesh of dead animals and keep the forest clean.
- E. 1. A camel cannot be called be called a wild animal because it has been domesticated by us. We use it to carry our loads.

F.



Water Buffalo



Elephant



Lion



Deer



Rhinoceros

- G. Do it yourself.
- H. Do it yourself.
- I. Do it yourself.



5. Bones and Muscles

Exercise

- A. 1. (c); 2. (b); 3. (c).
- B. 1. F; 2. F; 3. F; 4. T; 5. F.
- C. 1. Bones and muscles are useful as they help us to work and play.
2. Bones and muscles help a person to lift weights.
3. We can make our muscles strong by exercising.
4. The posture is the position in which we hold our body when we sit, stand or move.
5. The importance of a good posture is that it gives a proper shape to our body, helps all the parts of our body to work properly and makes.
- D. 1. We should play football, and not ludo, to make our muscles strong because in football, our body gets good physical exercise.
2. While studying, Roy is bending forward which may cause him backpain. So he should sit straight to avoid this problem.
- E. Do it yourself.
- F. Do it yourself.
- G. 1. **w e i g h t l i f t i n g**
2. **c y c l i n g**
3. **b a s k e t b a l l**
4. **s w i m m i n g**
5. **h o c k e y**
- H. Do it yourself.
- I. Do it yourself.

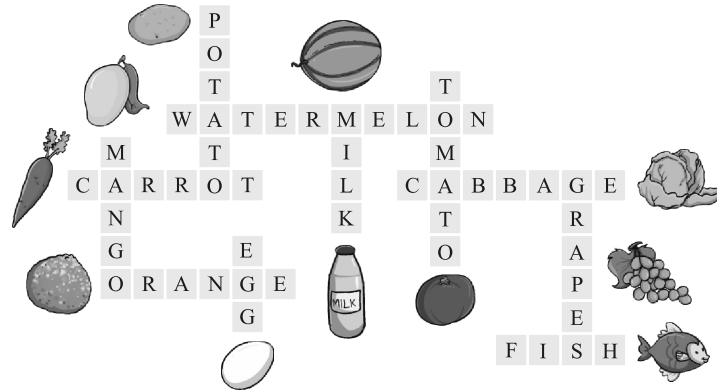


6. The Food We Eat

Exercise

- A. 1. (b); 2. (a); 3. (c).
- B. 1. (b); 2. (a); 3. (d); 4. (c).
- C. 1. We need food to grow and stay healthy.
2. Energy is used to work and play.

3. We should wash our hands and rinse our mouth before and after meals.
 4. We should not eat junk food because they are harmful for our teeth and our health.
- D.**
1. Navya is feeling tired after playing as has used up energy. So she should have juice to gain energy.
 2. Arpan has idlis for breakfast which is a healthy food whereas Shivam's breakfast is noodles, a junk food, which is unhealthy.
- E.** Do it yourself.
- F.** Do it yourself.
- G.** Do it yourself.
- H.** Do it yourself.
- I.**

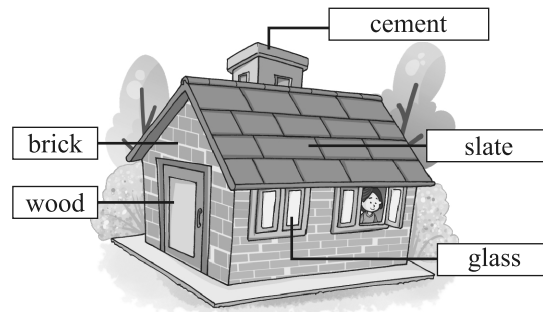


7. Housing and Clothing

Exercise

- A.** 1. (b); 2. (b); 3. (c).
- B.** 1. house; 2. caravan; 3. roof; 4. sloping; 5. woollen.
- C.**
1. We need a house as it keeps us safe from the sun, the rain, the wind and wild animals.
 2. People who keep moving from one place to another live in a temporary house.
 3. Three materials that are used to build a house are wood, steel and bricks.
 4. We should look after our house by keeping it neat and clean.
 5. Our clothes protect us from the heat, the cold, the rain, the wind, dirt and insects.

- D. 1. Houseboats are not found in Rajasthan as it does not have any large waterbody such as a river or a lake.
 2. Nancy should take both cotton and woollen clothes as she would be going to Jaipur, a hot city and Shimla, a cold place.
- E. Do it yourself.
- F.



- G. Do it yourself.
- H. 1. NO; 2. YES; 3. YES; 4. NO; 5. NO
 6. YES
- I. Do it yourself.



8. Safety First!

Exercise

- A. 1. (b); 2. (c); 3. (a).
- B. 1. zebra; 2. moving; 3. careful; 4. safe.
- C. 1. Two safety rules to be followed in a moving bus are as follows :
 (a) Never try to get into a moving bus.
 (b) Never get off a moving bus.
2. Two safety rules to be followed while swimming are as follows :
 (a) Never swim alone.
 (b) Do not swim just after meals.
3. If you get hurt, tell, your elders. They will help you.
- D. While playing in a park, we should not climb a tree or hang from its branches because we may fall down and ourselves.
- E. Do it yourself.
- F. ❖ Cross a road at the **zebra** crossing.
 ❖ Do not get out of a **moving** bus.
 ❖ Red light means **stop**.

- ❖ Yellow light means **wait**.
 - ❖ Green light means **go**.
- Also, fill the colours in the traffic light.

G. Do it yourself.



9. Air Everywhere

Exercise

- A. 1. (b); 2. (c); 3. (c).
 B. 1. T; 2. F; 3. T; 4. T.
 C. 1. air, 2. smoke, dust; 3. cover; 4. wind;
 5. fast, strong

D.



breeze



wind



storm

- E. 1. People, animals and plants need air.
 2. Air contains water vapour, smoke, dust and germs.
 3. Moving air is called breeze.
 4. Three ways in which wind helps us are :
 (a) It dries clothes on a clothesline.
 (b) It makes a sailboat move on water.
 (c) It carries seeds of plants to new places. This way the new plants get more space to grow.
 5. Storms are harmful as they damage houses, trees, crops and animals.
 6. The weather cock is used to find out the direction in which the wind is blowing.
- F. 1. In the rainy season, wet clothes take a long time to dry because water takes a long time to change into water vapour.
 2. We must stay indoors when a strong wind blows because we may get hurt by flying objects.
- G. Do it yourself.
 H. Do it yourself.
 I. 1. YES; 2. YES; 3. NO; 4. NO.
 J. Who has **seen** the wind? **been**
 Neither I nor you;

But when the leaves hang trembling **hut**
 The wind is passing through.
 Who has seen the wind?
 Neither **you** nor I; **mo**
 But when the trees bow down their **heads beds**
 The wind is passing by.

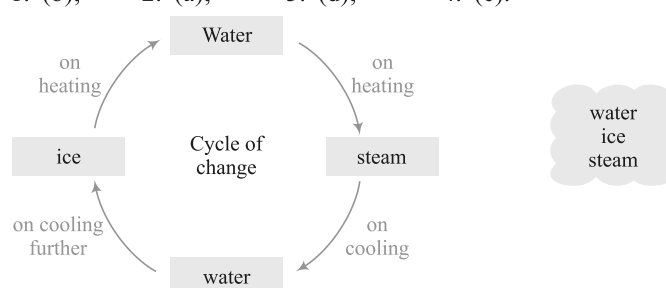
- K. Do it yourself.
 L. Do it yourself.



10. Water for All

Exercise

- A. 1. (b); 2. (c); 3. (b).
 B. 1. T; 2. T; 3. T; 4. F; 5. T.
 C. 1. (b); 2. (a); 3. (d); 4. (c).
 D.



- E. 1. Three sources of water are rain, rivers and wells.
 2. It is not safe to drink water from a pond because may have impurities, dirt and germs mixed in it.
 3. Different uses of water are drinking, bathing, cooking food, washing clothes and utensils.
 4. On cooling, water changes into ice.
 5. The sun's heat changes water in ponds, lakes, rivers and seas into water vapour. This water rises up in the air and cools down to form clouds.
- F. 1. We should bathe with a bucket of water instead of a shower as this way, less water is used.
 2. In the winter season, we see water droplets on grass and leaves as water vapour present in the air cools down to form water droplets.

G.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | B | R | G | F | R | O | P | Q | T | R | O |
| C | W | A | T | E | R | F | A | L | L | A | C |
| D | W | E | L | L | I | E | D | J | E | I | E |
| P | O | N | D | E | V | S | E | K | K | N | A |
| E | I | O | U | V | E | R | J | S | E | A | N |
| H | O | J | G | K | R | C | N | M | U | V | Z |
| S | P | R | I | N | G | U | Y | F | C | L | S |

H. Do it yourself.

I. Do it yourself.

J. Do it yourself.

K. Do it yourself.



11. Sun, Light and Shadow

Exercise

- A. 1. (c); 2. (b); 3. (a).
- B. 1. (c); 2. (a); 3. (d); 4. (b); 5. (c).
- C. 1. The sun gives us heat and light.
 2. We do not feel very hot on a cloudy day as the sun's rays do not reach us.
 3. A shadow is formed when light cannot pass through an object.
 4. Our shadow is long in the morning and evening.
- D. We should wear loose and light coloured clothes on warm days so as to remain cool.
- E. Do it yourself.
- F. 1. YES; 2. YES; 3. YES.
- G. Do it yourself.



12. Going to the Moon

Exercise

- A. 1. Man landed on the moon in the year 1959. (○)
 2. There is no life on the moon. (☾)
 3. Kalpana Chawla went into space in 1997. (☾)
 4. Sunita Williams stayed in space for two months. (○)

- B.** 1. air; 2. water; 3. life; 4. Kalpana Chawla.
- C.** 1. (d); 2. (a); 3. (b); 4. (c).
- D.** 1. The three astronauts who went to the moon in 1969 were Neil Armstrong, Edwin Aldrin and Michqel Collins.
 2. The astronauts went to the moon on a rocket.
 3. There are no trees, animals or people on the moon because there is no air to breathe and no water to drink.
 4. Four countries have successfully landed on the moon.
- E.** 1. We cannot live on the moon because it has no air or water.
 2. We cannot see the moon during the day due to the bright light of the sun.
- F.** Do it yourself.
- G.** Do it yourself.
- H.** Do it yourself.
- I.** Do it yourself.



13. Rocks and Minerals

Exercise

- A.** 1. (a); 2. (b); 3. (c).
- B.** 1. **DIAMOND**; 2. **MARBLE**; 3. **GRAPHITE**;
 4. **SLATE** 5. **COAL**
- C.** 1. Marble and sandstone.
 2. Sandstone and granite.
 3. China clay.
 4. Marble.
- D.** 1. Slate is used to make the roofs of some houses.
 2. Two uses of diamond are to make beautiful jewellery and to cut glass.
 3. Talc is the softest mineral.
- E.** 1. Coal is a black coloured soft rock. It cannot be used to write on blackboards because we won't be able to see anything.
 2. We cannot use chalk to make the lead of pencils because it is not hard enough.
- F.** Do it yourself.
- G.** Do it yourself.
- H.** 1. NO; 2. YES; 3. YES; 4. YES; 5. NO.

I.



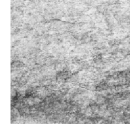
Circle



Triangle



Rectangle



Square

J. Do it yourself.



Half-Yearly Model Test Paper

- A. 1. (c); 2. (c); 3. (c); 4. (b); 5. (a).
B. 1. (b) 2. (a) 3. (d) 4. (c)
C. 1. T; 2. F; 3. F; 4. T
D. 1. Banyan tree; Neem tree.
2. We use fibres to make cloth, ropes, sacks and mats.
3. Meat of chicken, buffalo, goat, sheep and pig is eaten by people.
4. Two animals which eat other animals for food are lions and tigers.
5. Energy is used to work and play.



Annual Model Test Paper

- A. 1. (b); 2. (c); 3. (b); 4. (a); 5. (c).
B. 1. zebra; 2. moving; 3. careful; 4. safe.
C. 1. (d); 2. (a); 3. (b); 4. (c).
D. 1. We need a house as it keeps us safe from the sun, the rain, the wind and wild animals.
2. If you get hurt, tell your elders. They will help you.
3. Storms are harmful as they damage houses, trees, crops and animals.
4. The Sun gives us heat and light.
5. Slate is used to make the roofs of some houses.

