

St. Andrews Scots Senior Secondary School

9th Avenue, I.P. Extension, Patparganj, Delhi-110092

Session: 2025-26

Class: IV Subject: Science Topic: The Solar System Lesson No: 12

- Reading of the chapter
- Explanation (will be done in class)

(Textbook exercise)

- A. Tick (✓) the right answer.
 1. (b) Venus
 2. (a) Jupiter
 3. (a) crust
 4. (c) Arun
- B. Fill in the blanks.
 1. Moon
 2. Helium
 3. Venus
 4. Orbit
- C. Circle the odd one and justify.
 1. Moon- It is not a planet.
 2. Moon- It is a natural satellite.
 3. Iron- Not a layer of earth.

4. Mountain - Not a celestial body.

- **D. Write whether the following statements are (T) for True or (F) for false.**

1. True
2. False
3. False
4. True

- **E. Complete the following crossword puzzle using the clues.**

Across

3. Universe
5. Orbit
6. Jupiter
8. Crust

Down

1. Venus
2. Aryabhatta
4. Equator
7. Uranus

(Notebook Work)

• **New Words**

1. Universe
2. Heavenly
3. Satellites
4. Uranus
5. Unique
6. Optimum
7. Crust
8. Mantle
9. Equator
10. Hemisphere

• **Short Question Answers**

Q.1 Why is the earth called the blue planet?

Ans. The earth is called the blue planet as three fourths of earth is covered with water.

Q.2 Which is the sister planet of the earth? Why?

Ans. Venus, because its size is almost similar to earth.

Q.3 Name the two movements of the earth.

Ans. The two movements of the earth are:-

1. Rotation
2. Revolution.

Q.4 What is a planet?

Ans. Planets are heavenly objects moving around the sun in a fixed path.

• **Long Question Answers**

Q.1. What is solar system? Name all the planets of solar system.

Ans. Solar system is the family of the sun along with its eight planets, their satellites and other heavenly bodies. Its eight planets are:-

- i. Mercury
- ii. Venus
- iii. Earth
- iv. Mars
- v. Jupiter
- vi. Saturn
- vii. Uranus
- viii. Neptune

Q.2 List the differences between rotation and revolution.

Ans.

	Rotation	Revolution
1.	It is spinning of earth on its axis.	It is the movement of the earth around the sun.
2.	It causes day and night.	It causes change of season.

Q.3 What is an artificial satellite? Write its uses.

Ans. Man made satellites are called artificial satellites.

They are helpful in communication service and weather information.

Q.4 How are seasons formed?

Ans. When the earth moves around the sun on its tilted axis, then half of the earth is near the sun, while the other half is away from it. The hemisphere near the sun has longer and warm days and has summer season. The other hemisphere has shorter and cooler days of the winter season. In between these two seasons there is autumn and spring season.

Q.5 Explain the layers of the earth.

Ans. The different layers of earth are:-

- i. Crust - It is the outermost hard layer. We live on crust.
- ii. Mantle - It is below the crust. It is made up of very hot molten rocks.
- iii. Core - It is the innermost and hottest layer of earth. It consists of molten metals.

Give Reasons

Q.1 What will happen if the earth stops rotating?

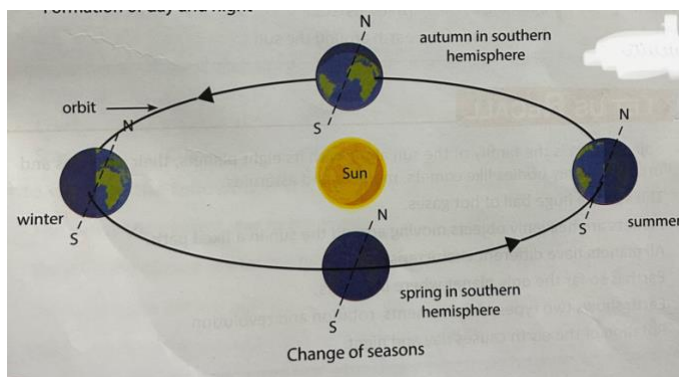
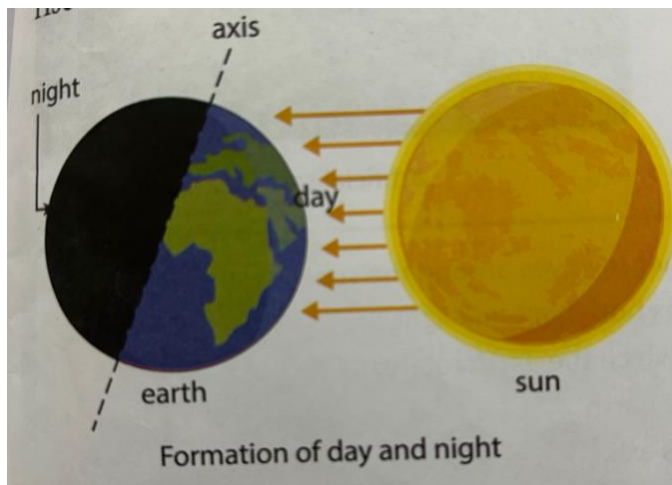
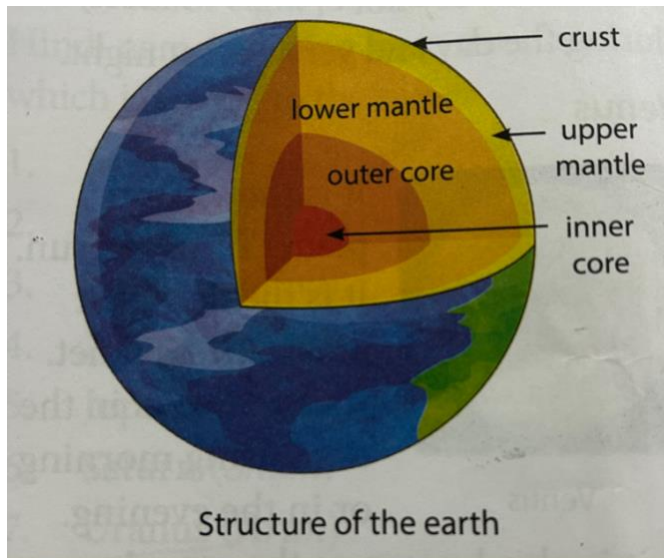
Ans. Day and night will not occur.

Q.2 All stars appear very small to us, but the sun appears big. Why?

Ans. Sun is the closest star to the earth. All other stars are very far away.

Diagrams

Draw the following diagrams:



• **Dictation**

Any 10 words

• **Activity**

Paste the pictures of all planets with labelling in your notebook.