**GREENWOOD PUBLIC SCHOOL, ADITYAPURAM**

**OUR MOTTO-DEVELOPMENT WITH DELIGHT**

**CLASS-IV SUBJECT- SCIENCE**

**Lesson - 1 (The Universe)**

**New words:**

1. Constellation
2. Crust
3. Mantle
4. Core
5. Rotation
6. Revolution
7. Axis
8. Equator
9. Hemisphere
10. Satellite

**Glossary:**

1. **Orbit-** The fixed path in which planets revolve around the sun.
2. **Equator-** An imaginary line that divides the earth into two equal halves- the northern hemisphere and the southern hemisphere.
3. **Axis-** An imaginary line running from the north pole to the south pole.

**Short Answers:**

**Q.1 What is a satellite? Name earth’s satellite.**

Answer: A satellite is an object in space which revolves around a planet. Moon is earth’s satellite.

**Q.2 What is the difference between rotation and revolution?**

Answer:

|  |  |
| --- | --- |
| **Rotation**  1.Earth spins on it’s axis. This movement of the earth is called rotation.  2. Rotation of the earth causes days and nights. | **Revolution**   1. Earth moves around the sun. This movement of the earth is called revolution. 2. Revolution of the earth causes seasons. |

**Q.3 Name any two constellations?**

Answer:

1. Pisces- The fishes.
2. Aries- The Ram.

**Q.4 What is core?**

Answer: Core is the hottest part of the earth. It consists of molten metals.

**Long Answers:**

**Q.1 Name the Planets of the solar system in order?**

Answer: The eight planets of the solar system are-

Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.

**Q.2 What is constellation?**

Answer: Constellation is a group of stars visible within a particular region of the night sky.

**Q.3 What causes formation of days and nights?**

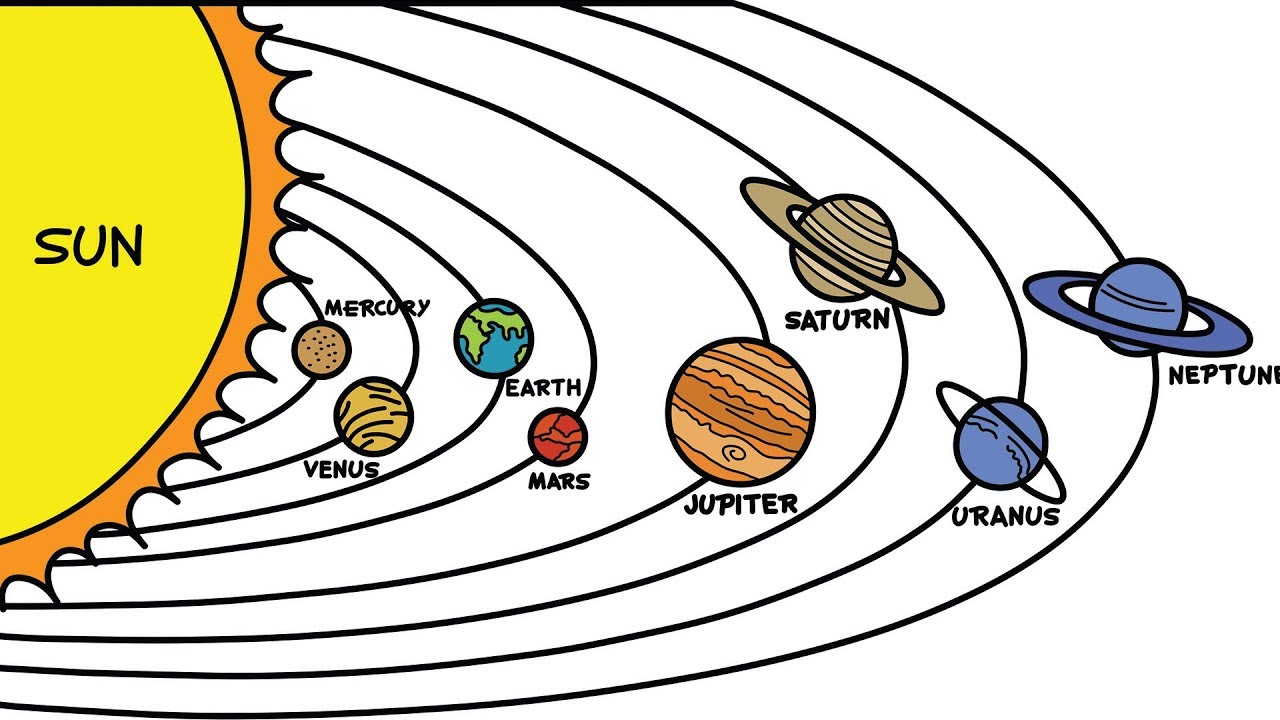
Answer: The earth rotates on it’s axis . The rotation of the earth causes days and nights.

**Q.4 What causes change in seasons?**

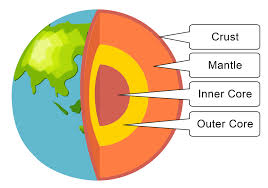
Answer: Change in seasons is because of the earth’s axis which is tilted at 23.5 degrees.

**Diagrams**

1. **Solar System:**



1. **The layers of the earth:**



**Lesson - 2 Life on the Earth**

**New words:**

1. Atmosphere
2. Stomata
3. Photosynthesis
4. Ecological
5. Chlorophyll
6. Producers
7. Consumers
8. Herbivores
9. Carnivores
10. Ecosystem

**Glossary:**

1. **Atmosphere-** The layers of gases surrounding the earth.
2. **Herbivores-** Animals which feed on plants.
3. **Stomata-** Tiny holes or pores found on the leaf surface.

**Short Answers:**

**Q.1 Why do we need oxygen in breathing?**

Answer: We need oxygen in breathing because oxygen burns the food to produce energy.

**Q.2 What is the importance of sunlight?**

Answer: Sunlight provides warmth to us. Green plants need sunlight to prepare their food.

**Q.3 How are all living things dependent on one another?**

Answer: The herbivores would not survive without the plants and carnivores would not survive without herbivores. Thus all living things are dependent on one another.

**Q.4 Who are producers?**

Answer: Green plants prepare food for all living things. So they are called producers.

**Long Answers:**

**Q.1 Name the things which are necessary for life to exist on the earth?**

Answer: The things which are necessary for life to exist on the earth are air, water, light, minerals and warmth.

**Q.2 What things do plants need to make their food?**

Answer: Plants need sunlight, water, carbon dioxide and chlorophyll to make their food.

**Q.3 Name some important minerals?**

Answer: Some important minerals needed by our body are iron, calcium, phosphorous and iodine.

**Q.4 State three uses of water?**

Answer: We use water for drinking, cooking, growth of the plants etc.

**Diagram**

1. **Photosynthesis:**

