

New words you have come across in this lesson:

- Crust** : the hard outer layer of the Earth
Mantle : the layer of the earth consisting of semi-liquid rocks
Core : the innermost part of the Earth
Equator : an imaginary line around the middle of the Earth
Hemisphere : half of a sphere, like the Earth

Work Time

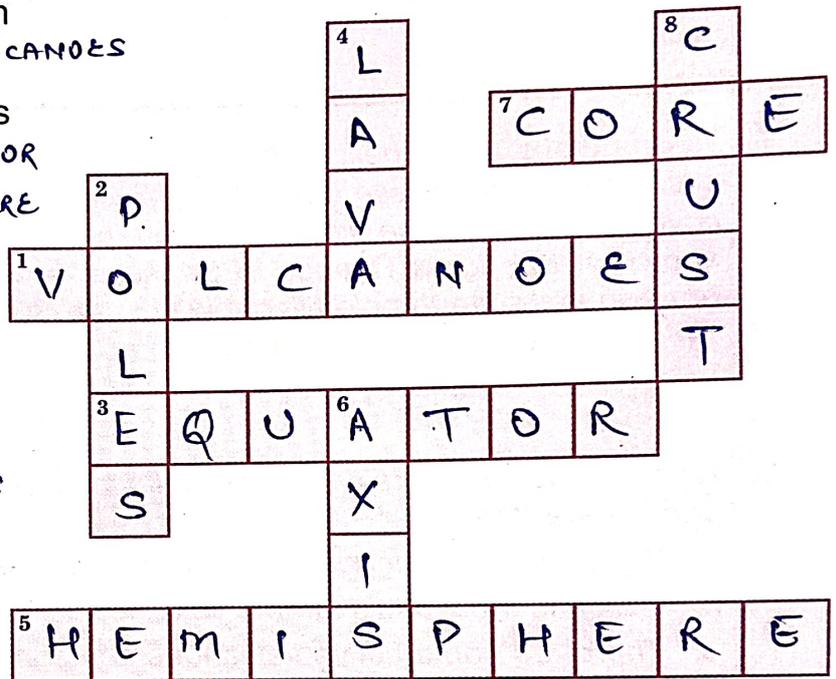
A. Solve the puzzle with the help of the given clues:

Clues Across

- The peaks from where the molten rocks come out of the Earth. VOLCANOES
- The imaginary line that divides the Earth in two halves. EQUATOR
- One half of the Earth. HEMISPHERE
- The innermost part of the Earth. CORE

Clues Downwards

- The two points on the surface of the Earth where the axis seems to enter the earth. POLES
- Hot molten material which comes out from the core of the Earth. LAVA
- The imaginary line on which the Earth rotates. AXIS
- The outer layer of the Earth. CRUST

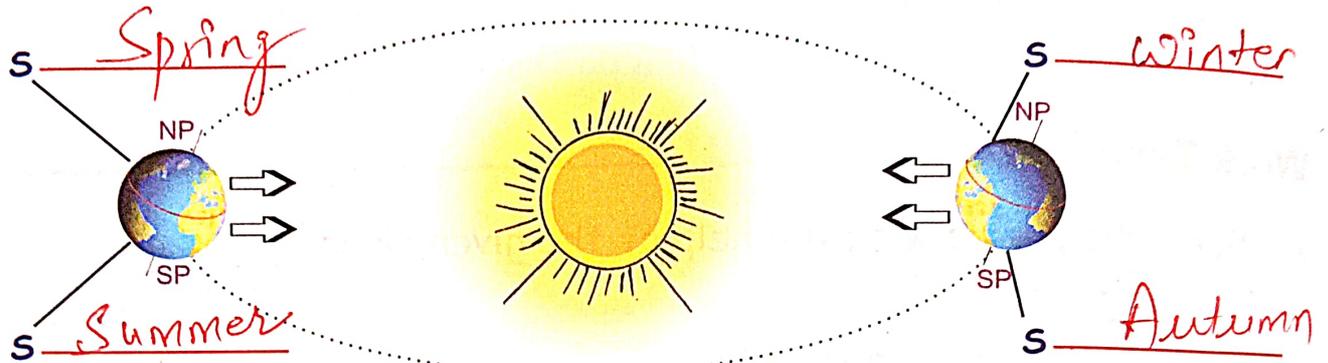


B. Answer the following questions:

- How long does the Earth take to complete one revolution? What is this time called?
- Describe the structure of the Earth.
- Why do the parts near the equator have the same season throughout the year?
- What are the factors which cause seasons?
- Why is the season in the northern hemisphere always opposite to that in the southern hemisphere?
- How is a volcano formed?

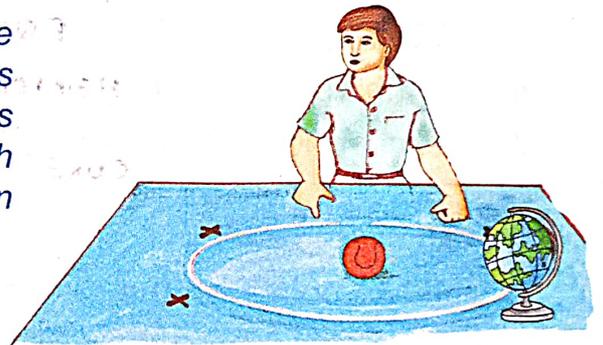
7. What would happen if the Earth were not tilted on its axis? Give reasons for your answer.
8. Why are the days longer in summer?

C. Label the following diagram. Also write the seasons at S.



Activity Time

1. Take a globe and a ball. With a chalk draw a large circle on a table. Place the ball in the centre. This is your Sun. Place the globe in the four positions as shown in the figure Change of Seasons. In which position is the north pole tilted towards the Sun? In which position is it tilted away from the Sun?



2. A volcano is a mountain from which lava comes out. Refer to an encyclopaedia or internet and answer these:
 - a. Which was the biggest ever volcanic explosion?
 - b. Which is the world's largest volcano?
 - c. There are some active volcanoes and some dormant volcanoes. What are they?
 - d. What is the name of the volcano in Japan? Is it active or dormant?
 - e. Do you know that a volcano called Visuvius buried a whole town under lava and ashes in Greece? Find out the name of the town.

You Know?

The Earth's crust is an extremely thin layer of rocks. It may be about 80 km thick in some places and only 1 km thick in others. The crust is extremely important as we live on it. It is primarily made up of granite

