

## Unit#1: The Earth in Space

Answer the following questions.

**Q#1: Describe the shape of the Earth. What is this shape called?**

**Ans:** The shape of the Earth is round but it is slightly flattened at the two poles. This shape is known as a sphere.

**Q#2: Explain the differences between rotation and regulation.**

**Ans:** When the Earth rotates on its axis it is known as rotation. The Earth rotates on its axis in 24 hours. This movement of the Earth causes day and night. When the Earth goes around the Sun, it is known as revolution. It takes the Earth 365  $\frac{1}{4}$  days to revolve around the Sun. This movement of the Earth brings the change in the seasons.

**Q#3: How are the seasons caused?**

**Ans:** The seasons are caused by the tilt of the Earth on its axis away or towards the Sun as it revolves around the Sun.

**Q#4: Where on the Earth surface is the Sun hottest throughout the year?**

**Ans:** The places around the Equator usually have the hottest temperature throughout the year.

**Q#5: Explain what a globe and a map are and the differences between them?**

**Ans:** A globe is a model of the Earth. The Earth is so large that we cannot see all of it at once. The globe shows what the Earth looks like. Flat maps are used to show parts of the Earth. In order to be able to read a map, it needs a title, scale, and a key.

**Q#6: Explain why there is complete darkness at the North Pole for 24 hours a day in December?**

**Ans:** There is complete darkness for 24 hours in December, because the Earth's axis tilts towards the Southern hemisphere, the rays of the Sun cannot reach the North Pole.

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