

**CHRIST CHURCH SCHOOL**  
**WORKSHEET 5 ANSWER KEY**

Name: \_\_\_\_\_

Roll No: \_\_\_\_\_

Subject: **SOCIAL STUDIES**

Date: \_\_\_\_\_

**STD 4: A B C D E F G**

**TOPICS: MOTIONS OF THE EARTH**

**I. Fill in the blanks:**

1. The two motions of the Earth are rotation and revolution.
2. A year that has 366 days is called a Leap Year.
3. The end points of the Earth are called poles.
4. The Earth rotates from west to east.

**II. Name the following:**

1. Completes one rotation in 243 days.

**Ans: Planet Venus**

2. Part of the Earth that is to the south of the Equator.

**Ans: Southern Hemisphere**

3. Motion that causes seasons

**Ans: Revolution**

**II. Define**

**1. A Leap Year**

**Ans:** A Leap Year is a calendar year that contains an additional day. A Leap Day, February 29, is added to the calendar during leap years. This extra day, also called Leap Year Day, makes the year 366 days long – not 365 days, like a common year

**2. The Equator**

**Ans:** The Equator is an imaginary line around the middle of a planet. The Equator divides the planet into a Northern Hemisphere and a Southern Hemisphere.

### **III. Answer the following:**

#### **1. Explain what do you understand by rotation of the Earth?**

**Ans:** The motion of the Earth on its axis is called rotation. The axis is the imaginary line which passes through the center of the Earth. Rotation of the Earth causes day and night. The Earth takes 24 hours or one day to complete one rotation. The Earth rotates from west to east. Due to this, we see that that the Sun rises in the east and sets in the west.

#### **2. What happens when the sun's rays fall directly on the Equator?**

**Ans:** When the sun's rays fall directly on the Equator, the length of days and nights are the same throughout the world. It is neither very hot nor very cold in both the hemispheres.

#### **3. What is the axis of the Earth?**

**Ans:** The axis of the Earth is an imaginary line that passes through North Pole, center of the earth and South Pole. The end points of the axis are called poles. The end point on the top is called North Pole while the one at the bottom is called South Pole. The axis is not vertical. It is always tilted and in the same direction.

### **V. Application Question;**

#### **1. When will the next Leap Year be?**

**Ans:** The next Leap Year will be in 2024

### **VI. Value Based Question:**

#### **1. What are some of the things we can do to protect our planet Earth?**

**Ans:** Simple things we can do to help protect the Earth are:

- 1. Reduce, reuse, and recycle.** Cut down on what you throw away. Follow the three "R's" to conserve natural resources and landfill space.
- 2. Conserve water.**
- 3. Shop wisely.** Buy less plastic and use a reusable shopping bag.
- 4. Use long-lasting light bulbs.** Energy efficient light bulbs reduce greenhouse gas emissions. Also flip the light switch off when you leave the room!
- 5. Plant a tree.** Trees provide food and oxygen. They help save energy, clean the air, and help combat climate change.
- 6. Don't release chemicals** into the waterways.

**(ANY OTHER REASONABLE ANSWER IS ACCEPTABLE)**