**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Earth’s Tilt**

**What is tilting?**

* **The earth is tilted on its axis \_\_\_\_\_\_\_ degrees.**

**How does the earth move?**

* **Rotation – one complete turn on earth’s axis.**

**-**

* **Revolution – one complete orbit of the earth around the sun.**

**-**

**What causes day & night?**

* **As earth rotates on its axis, it turns towards and away from the sun.**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is when your half of the earth is facing the sun.**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is when your half of the earth is turned away from the sun.**

**Why are there time zones?**

* **As earth moves, different parts of the earth receive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at different times.**
* **This is why there are different \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_around the world.**
* **In the US, the east coast turns towards the sun \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

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**Think, Pair, Share:**

* **How would you explain a sunset?**
* **How much of the earth experiences daylight at any given time?**
* **Is the earth in the center of the universe?**
* **Why do some places on earth receive 6 months of daylight and then 6 months of nightime?**
* **What is the purpose of a leap year?**

**Why are there seasons?**

* **It takes Earth \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to orbit around the sun.**
* **As Earth \_\_\_\_\_\_\_\_\_\_, it is tilted at different angles towards/away from the sun.**
* **Summer is warmer than winter (in each hemisphere) because the Sun's rays hit the Earth at a more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ during summer than during winter.**

**Equinox**

* **“\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_”**
* **Sunlight hits the earth most directly at the \_\_\_\_\_\_\_\_\_\_\_\_\_.**
* **Day & night lasts \_\_\_\_\_\_\_\_\_\_\_\_\_ hours at all latitudes.**
* **Spring & Fall**

**Solstice**

* **A Solstice occurs twice a year, when the tilt of the Earth's axis is tilted directly towards or away from the Sun, causing the Sun to appear to reach its northernmost and southernmost \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
* **Winter solstice is the shortest day of the year. In the Northern Hemisphere. It occurs on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and marks the beginning of winter.**
* **The Summer Solstice is the longest day of the year. It occurs on \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and marks the beginning of summer.**

**Think, Pair, Share:**

* **If it’s winter in the Southern Hemisphere, what season will it be in the Northern Hemisphere?**
* **How is it possible for us to be out on break and go to the beach and students in Australia to be out on break and go skiing?**
* **What is a solstice? When do they occur?**
* **What is an equinox? When do they occur?**