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| Earth and Its Cycles  How many hemispheres is Earth divided into at any one given time? |  |
| One complete rotation of Earth on its axis is equal to \_\_\_\_\_\_\_\_\_\_\_ |  |
| Are all days the same length of time? Support your answer. |  |
| Why are the # of hours of sunlight and darkness in the Northern and Southern Hemispheres not constant? |  |
| The Earth rotates in a \_\_\_1\_\_\_\_\_\_\_direction----that is from \_\_2\_\_\_\_\_to \_\_\_\_\_\_3\_\_\_\_\_\_\_\_\_\_\_ | 1.  2.  3. |
| The Earth rotates on it axis at a \_\_\_\_\_\_\_\_\_degree slant. |  |
| If the earths’ axis were straight up and down (not tilted), what would happen to the amount of sunlight at each pole all year long? |  |
| What would Earth be like if the Earth did not rotate on its axis? |  |
| The rotation and revolution of the Earth are responsible for \_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |  |
| Why do some planets not experience seasons? |  |
| One complete revolution of Earth around the sun is equal to \_\_\_\_\_\_\_\_\_\_\_\_. |  |
| Why do leap years occur every 4 years? |  |
| What do the words solstice and equinox mean? How are they related to the position of the Earth’s axis?  Solstice=  Equinox= |  |
| How does the tilt of the Earth’s axis, combined with the Earth’s revolution, cause the occurrence of the seasons? |  |
| During the autumnal equinox, the sun’s direct rays shine on the \_\_\_\_\_\_\_\_\_\_\_\_. Describe this day in terms of daylight and darkness. |  |
| The vernal equinox is the first day of \_\_\_\_\_\_\_\_\_\_\_\_\_\_. |  |
| The day when the North Pole is tilted a full 23.5 degrees toward the sun is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.Describe this day in terms of daylight and darkness. |  |
| True or False? Summer and winter are not affected by the earth’s distance from the sun. Support your answer. |  |
| Today, is the Northern hemisphere leaning toward or away from the sun? How do you know? |  |
| Math Connection –use a calculator. If Earth moves at a speed of approximately 30 km/sec as it orbits the sun….  What distance, in km, does Earth travel   * In one minute? * In one hour? * In one day? * In one year? |  |