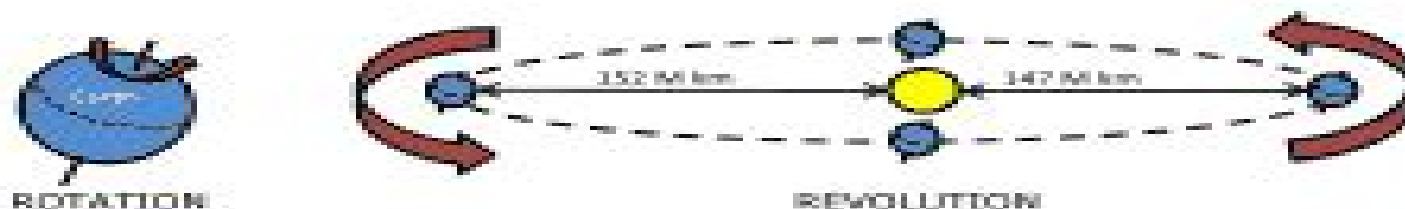


## **STAAR Science Tutorial 27** **TEK 8.7A: Earth's Seasonal & Day-Night Cycles**

**TEK 8.7A: Model and Illustrate how the tilted Earth rotates on its axis, causing day and night, and revolves around the Sun causing changes in seasons.**

The Earth spins, or rotates, on its axis once a day. This is the cause of the day—night cycle on Earth. In fact, the Earth's counter-clockwise rotation, not any motion of the Sun, is what makes the Sun seem to rise in the East and set in the West.

The Earth orbits, or revolves, around the Sun once in a year (365.25 days), also in a counter-clockwise direction, as viewed from over the North Pole. The shape of that orbit is almost a perfect circle, but is slightly "elliptical" (oval) in shape. The Earth is slightly closer to the Sun (147 million km) on about January 3<sup>rd</sup> each year, and slightly further away from the Sun (152 million km) on about July 4<sup>th</sup> each year. This 3% difference in the Earth to Sun distance during the year does NOT make any real difference in the temperature of our seasons.



The real cause of the seasons is the tilt of the Earth's axis, about 23.5 degrees. If the Earth's axis was not tilted, there would be no seasons on Earth—every day would be about the same temperature in any one place. Without tilt, every day and every place on Earth (except the poles) would have exactly 12 hours of daylight and 12 hours of night. It is the tilt that causes seasonal differences in the length of night and daylight—longer nights in winter and longer days in summer. It is the tilt that causes the Sun to be high in the sky in summer and low in the sky in winter. It is the combination of longer daylight hours and more direct sunlight that causes the heat of summer, and the combination of shorter daylight hours and less direct sunlight that causes the cold of winter.

The angle of the Earth's tilt does not change during the year. The Earth's North Pole axis always points to Polaris, the North Star. But the hemisphere of Earth that faces the Sun more directly DOES change during the year, as the Earth orbits around the Sun. On one day a year (the summer solstice, June 21<sup>st</sup>), the northern hemisphere is tilted

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