

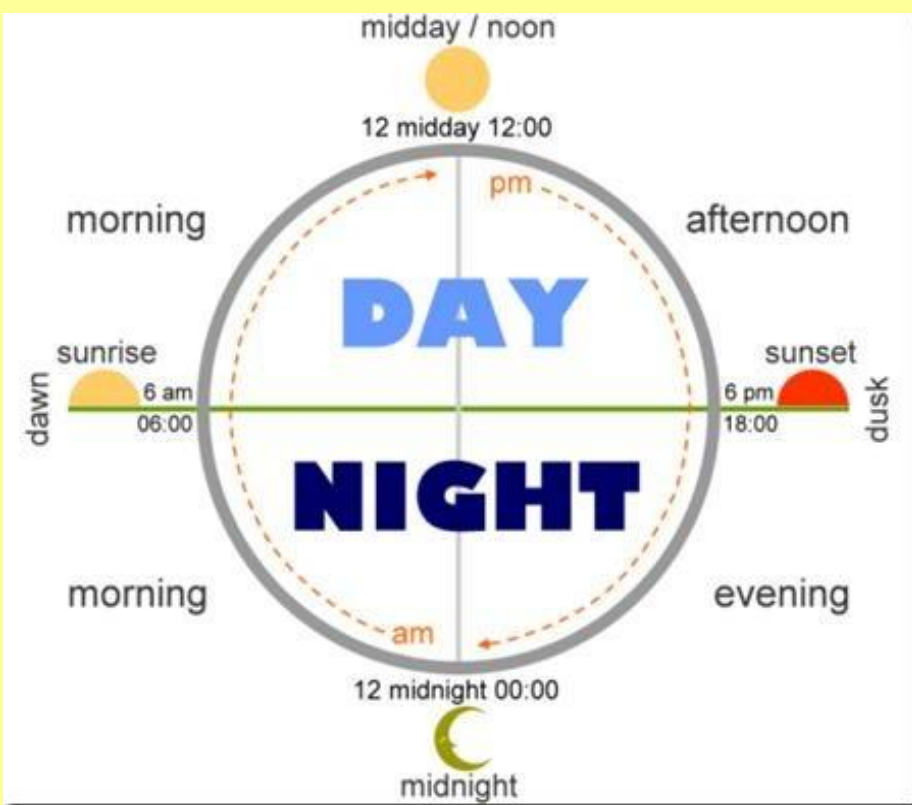
UNIT 10
LESSON 2

Day and Night Cycle



cycle

A pattern or event that is repeated on schedule or in the exact same order



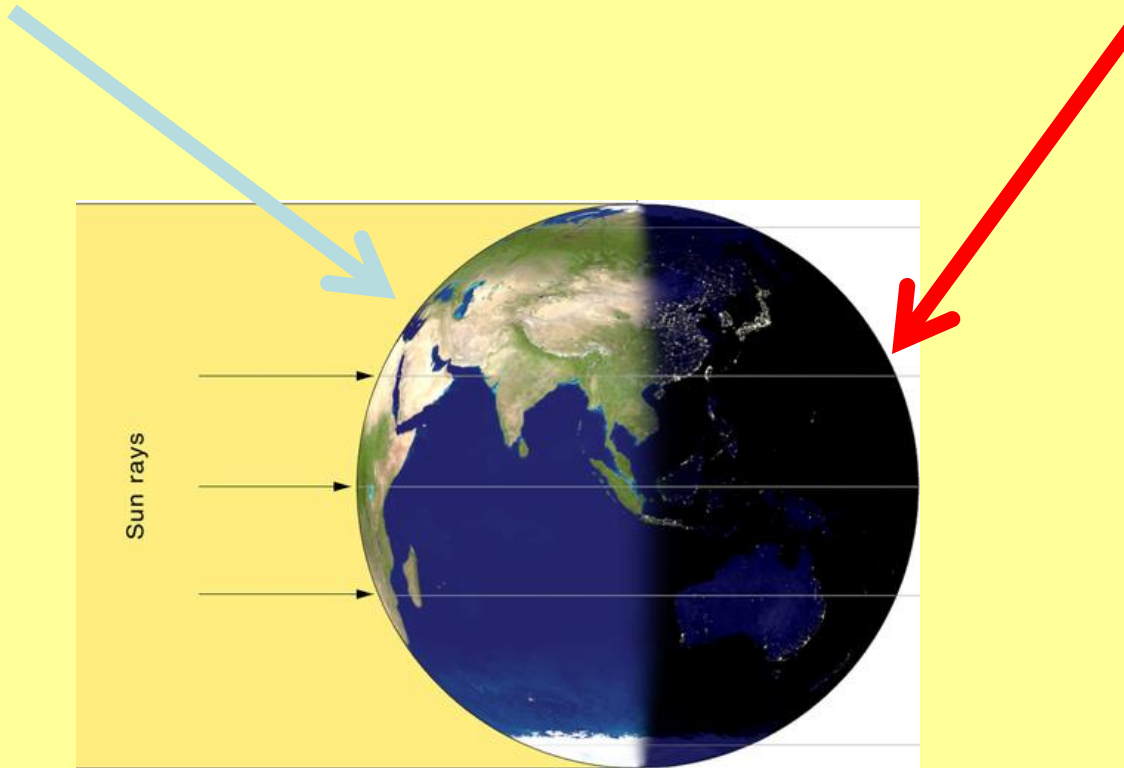
Day and Night:*

Day

The 12-hour period when Earth is facing the Sun

Night

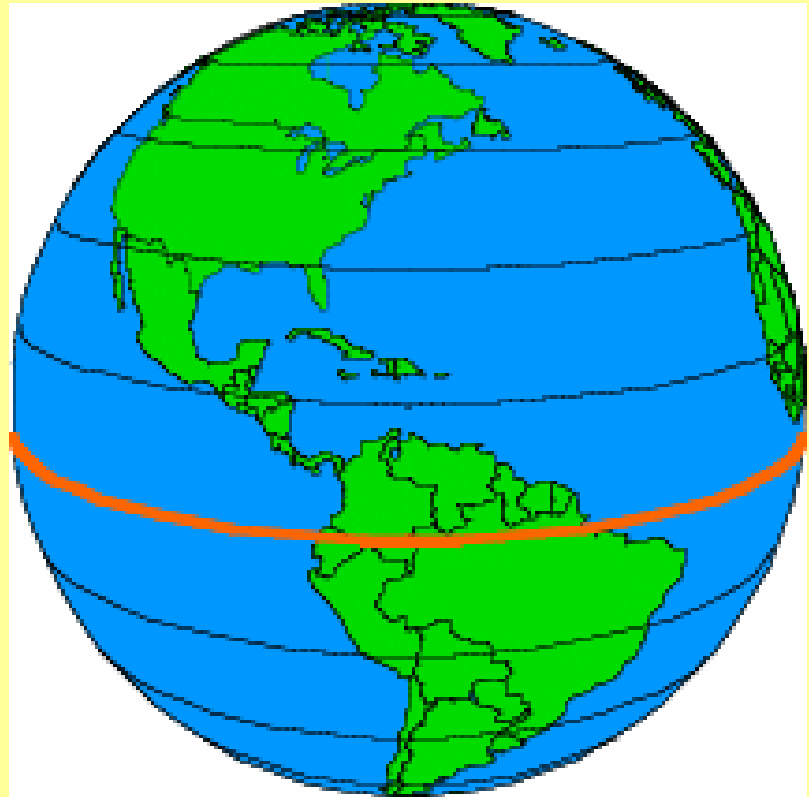
The 12 hour period when Earth is facing away from the Sun



Equator*

An imaginary line around Earth that is halfway between the North and South Poles.

Sun shines directly on the equator



Terminator*

is a moving line that marks the illuminated day side and the dark night side of earth. sometimes called the twilight zone or “grey line”



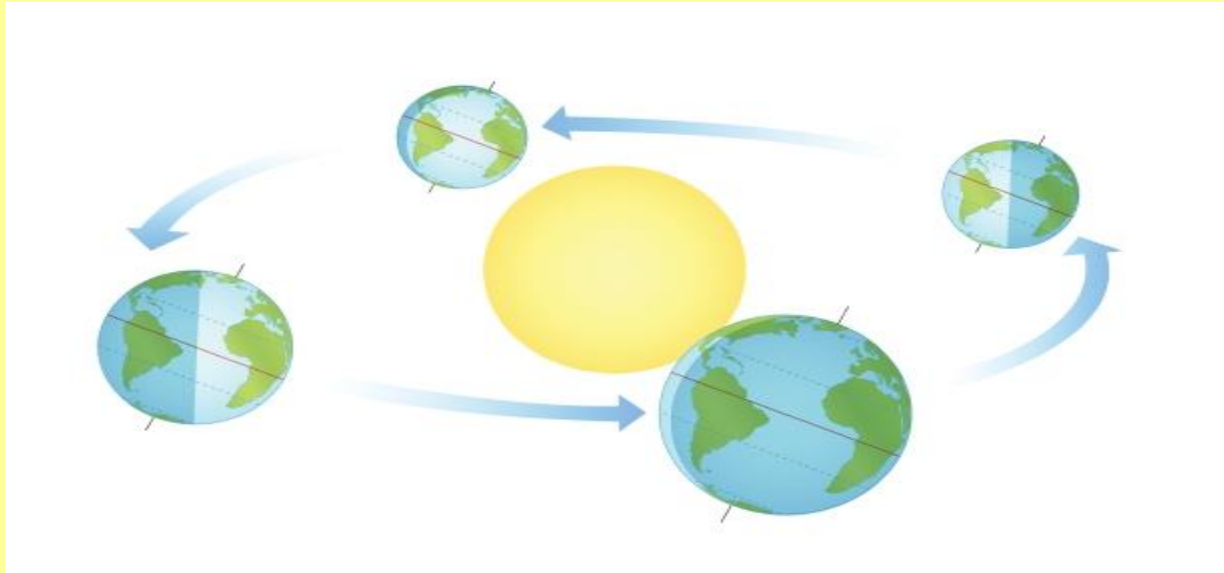
revolution

To go around a larger object; to orbit

Earth revolves around the sun or the moon revolves around the Earth;

Earth's revolution causes the seasons to change.

It takes the Earth 365 days or 1 year to revolve around the Sun

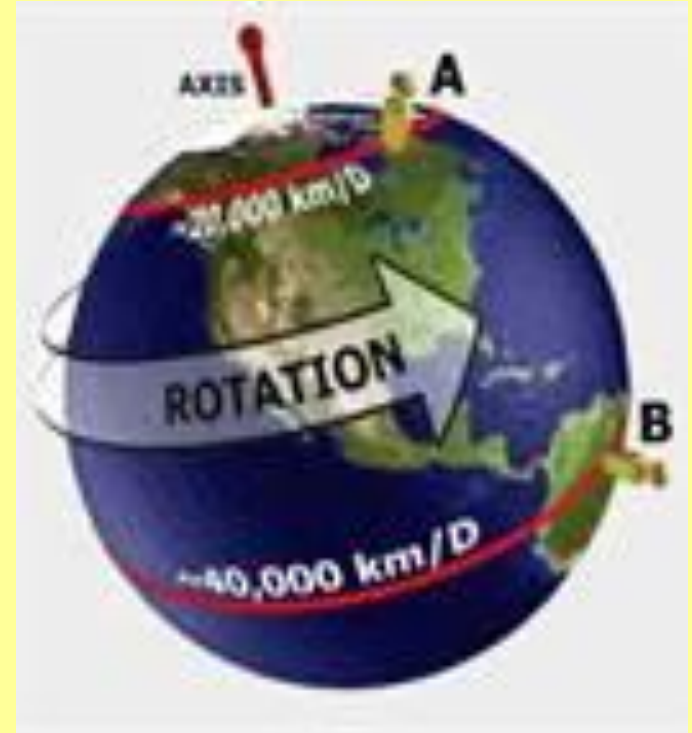


rotation

to turn or spin on an axis; the spinning of Earth on its axis

Causes the day and night cycle.
It takes the Earth 24 hours or 1 day to make a complete rotation

Earth rotates counter clock wise:
towards the East



axis

an imaginary line that runs between the North and South poles.

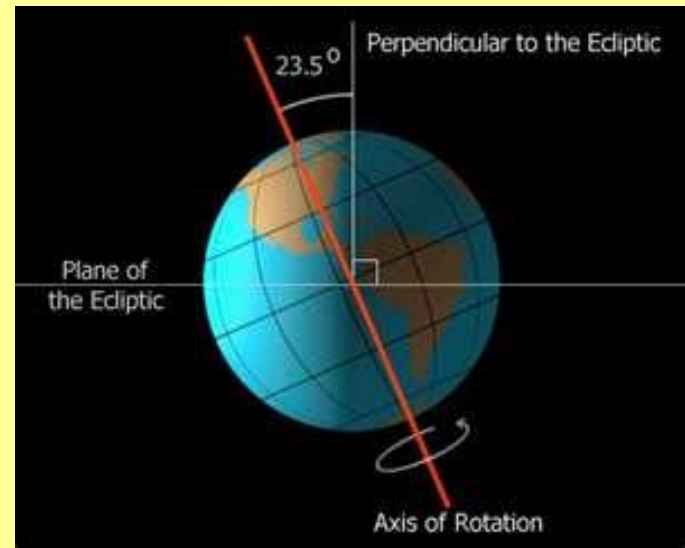
As Earth revolves around the Sun, it also rotates, or spins, on its ***axis***



axial tilt

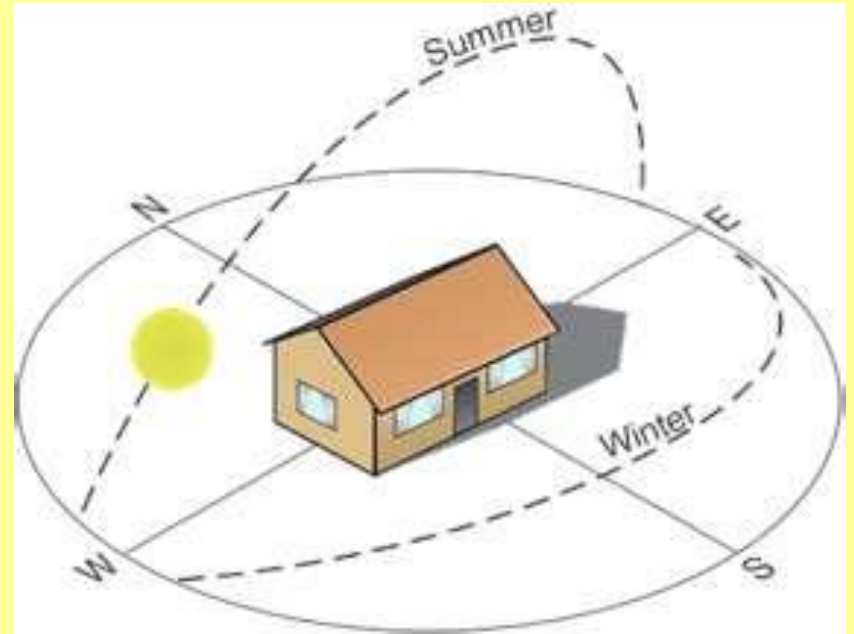
Angle or slant of Earth's axis of rotation at 23.5°

Also causes seasons based on if the axis is tilted towards or away from the Sun



solar arc (apparent movement)

the apparent daily path of the Sun moving across the sky from east to west



lunar arc (apparent movement)

the appearance that the moon is moving across the night sky

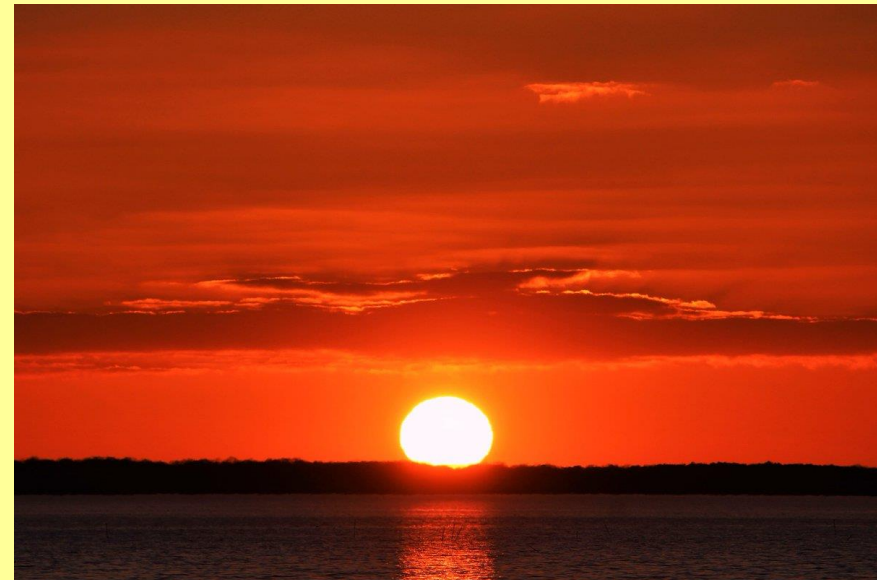


Sunrise and Sunset*

Sunrise: When the Earth is rotating and you are starting to see the sun



Sunset: When the Earth is starting to rotate away from the Sun



Shadow

Created when an object is blocking the path of sunlight.

Length of the shadow is determined by how much light the object is blocking

Points in the opposite direction of the sun:
west to south to east

