

A composite image of the Sun and Earth in space. The Sun is on the left, a large, bright yellow-orange sphere with a textured, glowing surface and wispy solar flares. The Earth is on the right, a smaller blue and white sphere showing clouds and continents. The background is a dark, star-filled space with many small white stars and some larger, brighter stars with diffraction patterns.

Earth's Movements

- astronomical unit: the average distance between the earth and the sun

- 150 million km

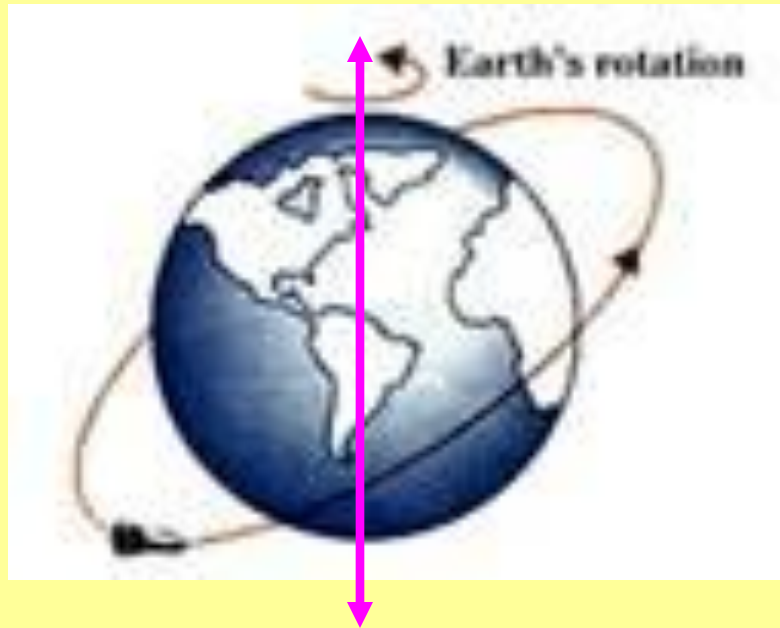
- 93 million miles



Earth has 2 Movements: Rotation & Revolution

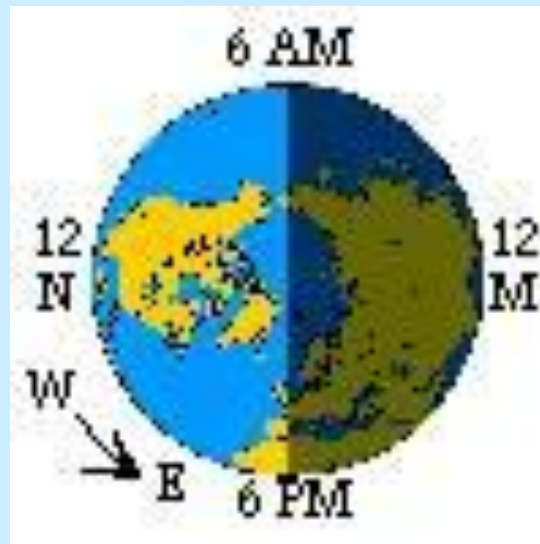
Rotation: is the turning or spinning of a body on its axis

1) 1 rotation = 24 hours = 1 day



What effect (that we see daily) does rotation cause?

2) Causes: DAY & NIGHT



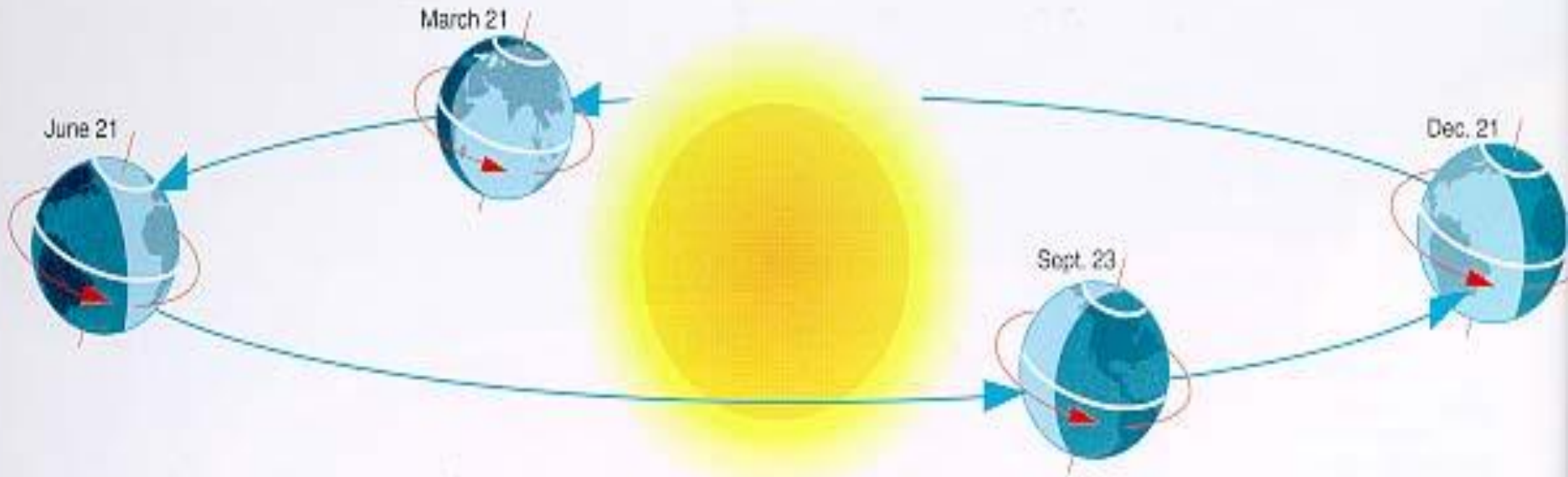
3) is in the direction from
West to East...



- Sun appears to be moving East to West
- Sunrise in East & sunset in West

Movement #2 ... **REVOLUTION**

is Earth's movement around the
SUN



Revolution cont.

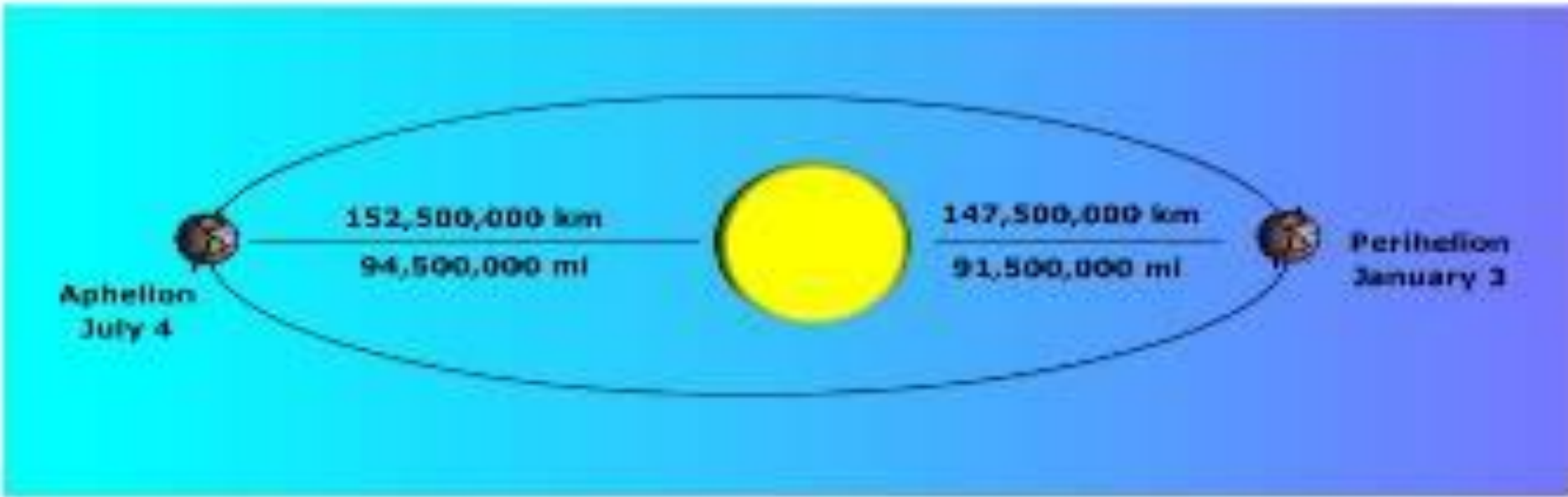
1 Revolution = 365.24 days = 1 year

.24 x 4 = 1 day → Leap Year!

Speed of Revolution = 30km/s = 70,000 mph

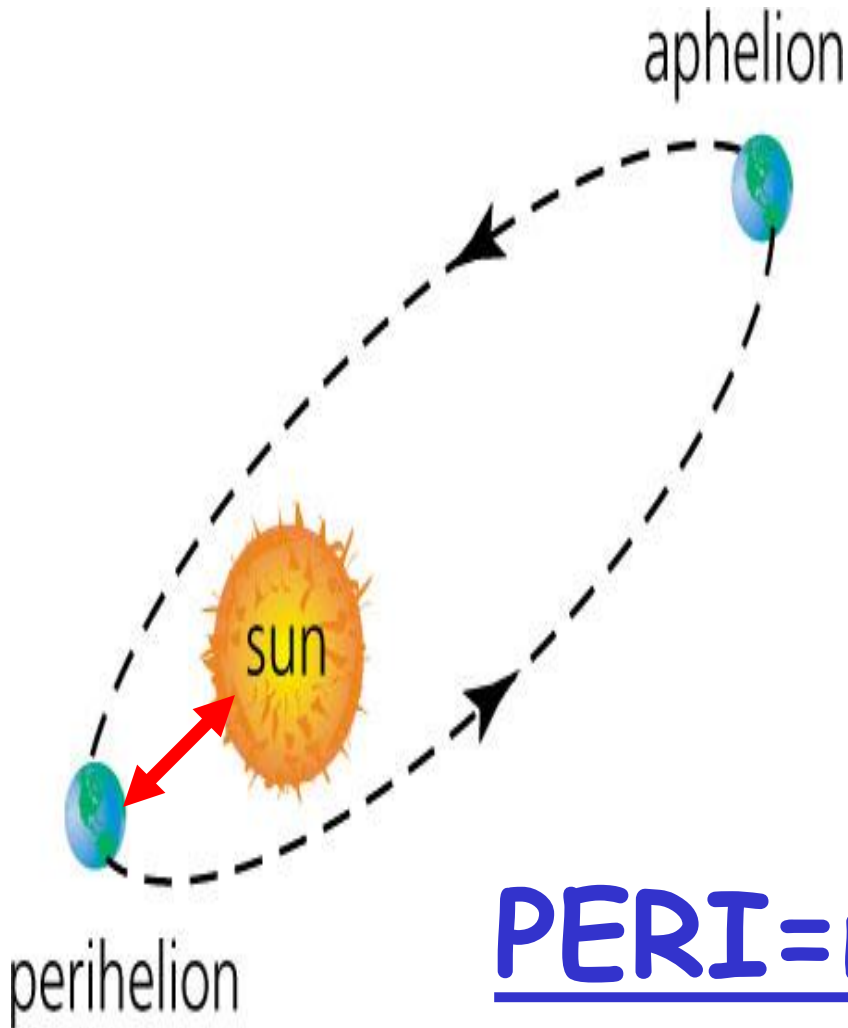
ORBIT: is the path Earth follows

Earth's Orbit is:



- Slightly elliptical (not a perfect circle)
- Earth is **NOT** always the same distance from the sun

PERIHELION



closest point to the sun at:

147 million km =
(91.34 million miles)

and occurs on:

Jan 3rd

PERI=near Helio=Sun

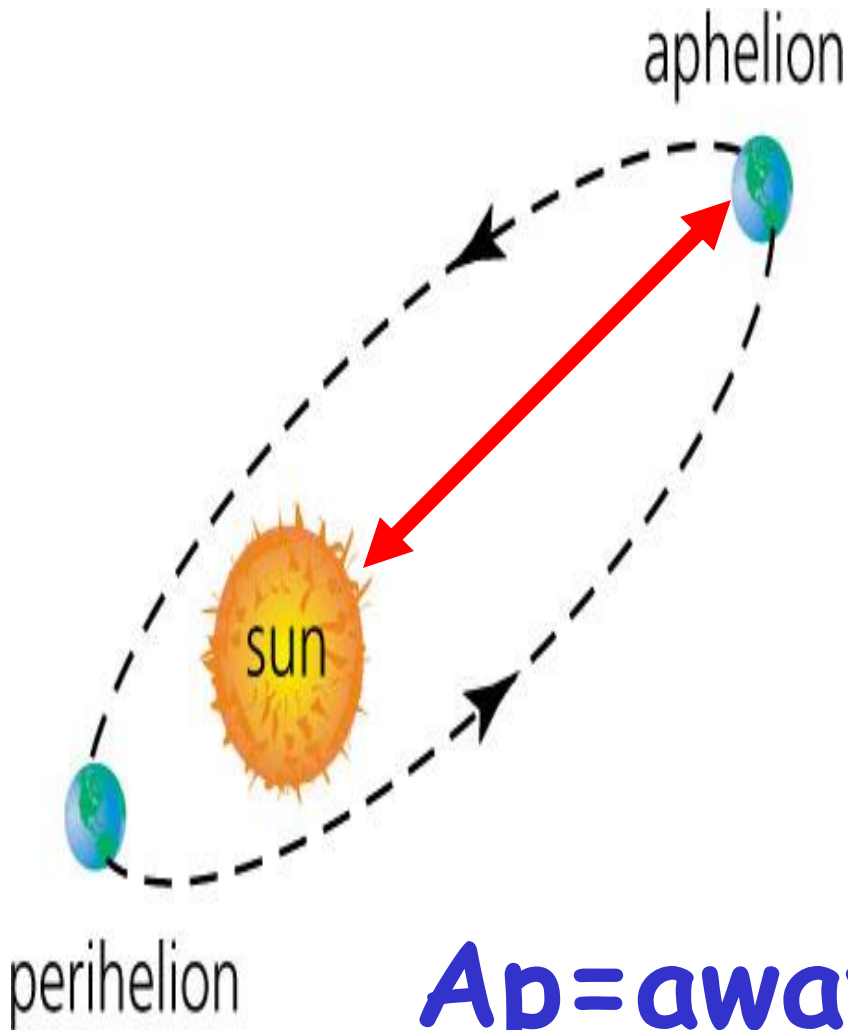
APHELION

farthest point from sun at:

152 million km =
94.45 million miles

And occurs on:

July 4th



Ap=away Helio=Sun