

# Earth and Space

Sun, Earth, Moon — what does

- DAY and NIGHT — Earth spins on its axis once every 24 hours. The half facing the Sun has DAY; the other half has NIGHT.
- A YEAR — Earth orbits the Sun once every 365.25 days. (The 0.25 is why we have a leap year every 4 years.)
- SEASONS — Earth is tilted at 23.5°. When your hemisphere tilts TOWARD the Sun, you get summer. Tilt AWAY, you get winter.
- THE MOON — orbits Earth every 27 days. Same side always faces us.
- PHASES OF THE MOON — caused by which side is lit by the Sun: New, Crescent, Half, Gibbous, Full — and back.
- TIDES — the Moon's gravity pulls on Earth's oceans, causing two high tides and two low tides each day.
- SIZE — The Sun is about 109 Earths wide. The Moon is about 1/4 of an Earth's width.
- DISTANCE — Sun is 150 million km from Earth. Moon is 'only' 384,000 km away.
- SOLAR SYSTEM — Eight planets orbit the Sun: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.

