

TIDES



*Tides happen every day.

*We have high tide
and low tide every
6 hours.

*Tides happen because of
the moon's pull on the
water and by the wind.

*High tide happens when
the moon is over water.
Low tide happens when the
moon is over land.

Study Guide for Cycles

Keep this to study for the test.

Cycles in Nature

Day



Seasons



Moon



Tides



Day Cycle

This cycle has two parts: day and night.

Each part is 12 hours long making the total cycle 24 hours long.

The Earth rotates from west to east and causes this cycle. However, the **SUN** will rise in the east and set in the west.

When it is day in the Western Hemisphere, it is night in the Eastern Hemisphere.

Seasons Cycle

This cycle has four parts:



spring, summer, autumn, and winter. Each part

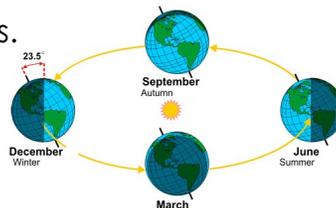
lasts for about 3 months.

The whole cycle takes 365 1/4 days or one year.

The tilt of the Earth's axis as it revolves around the sun causes this cycle.

At the equator, the Earth is always hot and does not have four seasons. At the north and south poles, spring and autumn are very short.

The seasons are reversed in the Northern and Southern hemispheres.



Moon Cycle

The moon cycle takes 29 1/2 days.

The moon is either waxing to a full moon or waning to the new moon.

The full moon is the large round shape in the night sky. A **new moon** is when **no moon** is seen in the night sky. The cycle begins with the new moon.



Because the moon looks like it is **growing** in the sky, we then have waxing crescent, waxing first quarter, waxing gibbous, and then the **full moon**.

Next, the moon looks like it is getting smaller in the sky. From the FULL MOON, we have waning gibbous, waning third quarter, waning crescent, and back to the new moon.

The moon's light is just the reflection of the sun's light.