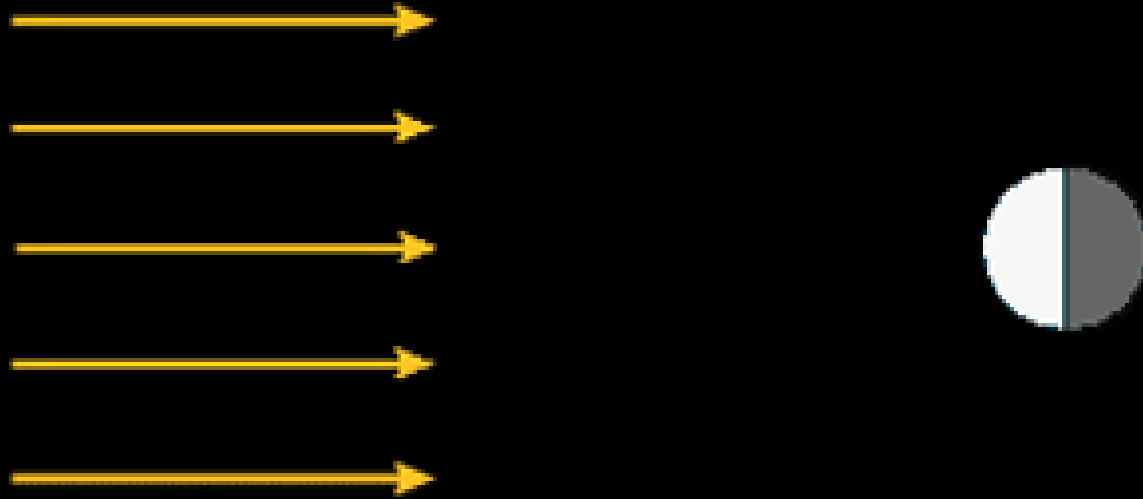


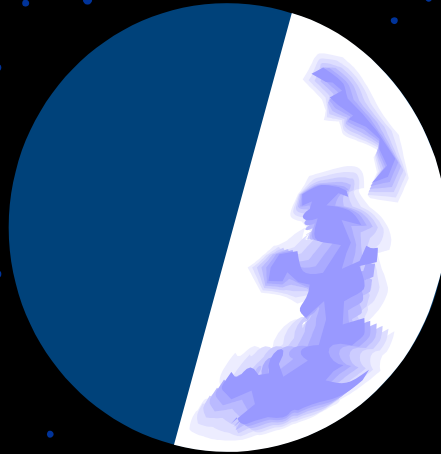
Phases of the Moon

Half of the moon is always lit up by the Sun. As the moon orbits the Earth, we see different parts of the lighted area.

The sun's rays

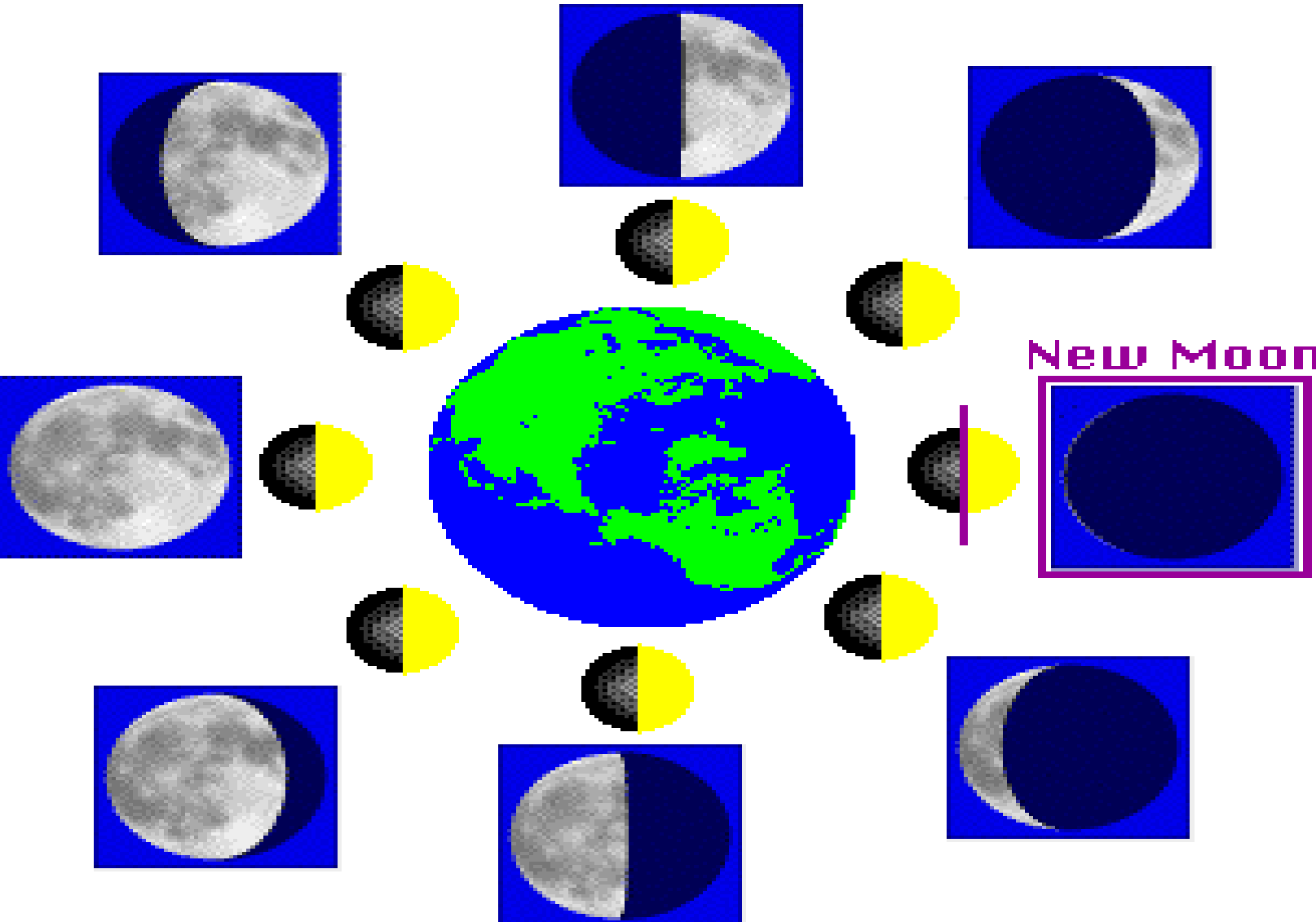


The revolution of the Moon around the Earth makes the Moon look as if it is changing shape in the sky.



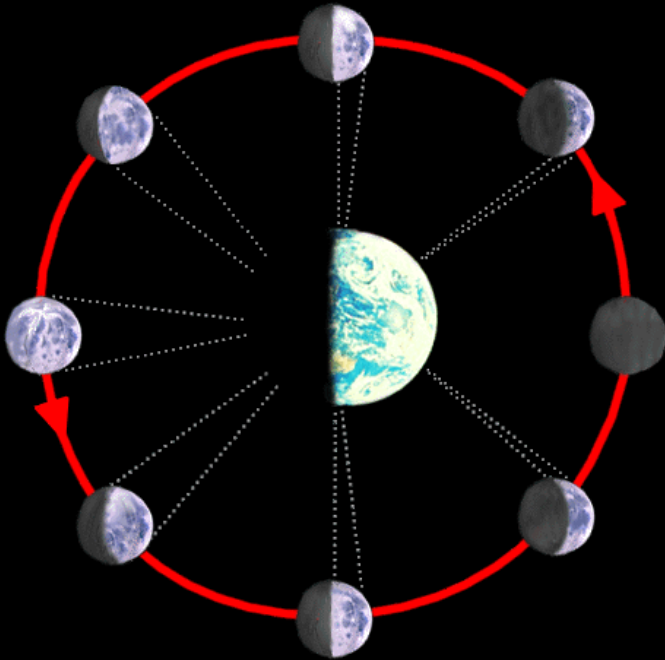
The Moon passes through eight phases during a cycle that repeats itself every 29.5 days.

As the moon makes its monthly journey around the earth, the side of the moon reflecting the sunlight is viewed from different angles.

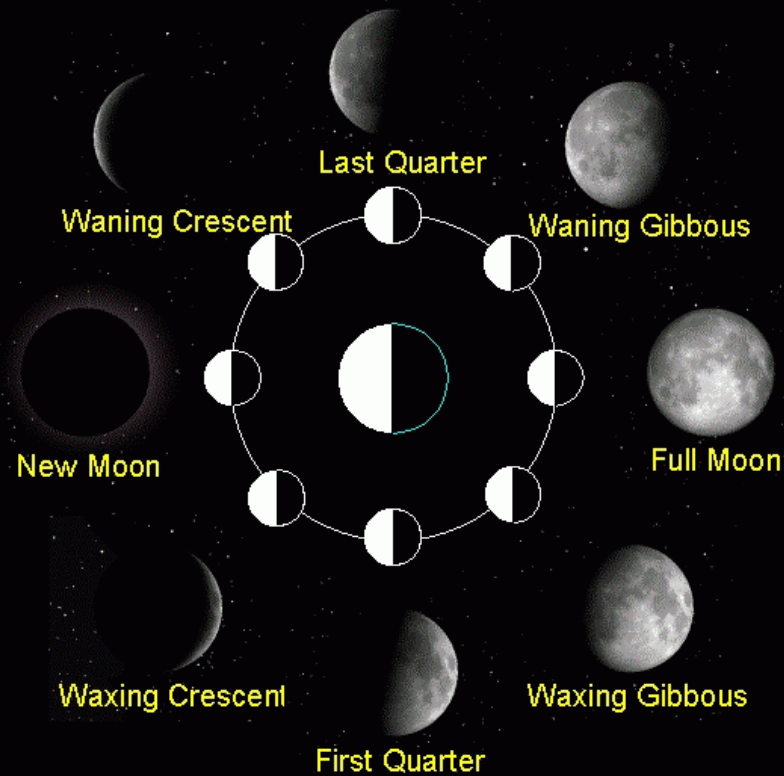


NEW

Review: What causes the different phases of the moon?



1. The Moon revolving around the Earth
2. The Moon reflecting sunlight towards the Earth.
3. Half of the Moon is always lit, not just what we see.



Since we only see the lit portion of the moon that is facing Earth, we see a moon phase.

There are 8 phases of the moon & they always occur in the same order starting with the **NEW MOON** and ending with **WANING CRESCENT**.

Open textbook to page 701.



Shadow on the Moon



New Moon

During a NEW MOON we do NOT see any of the Moon's surface that is lit.

We ONLY see the dark side of the moon.

This is the first phase in the moon's cycle.



Waxing Crescent

During the Waxing Crescent moon phase we see a small sliver of the lit moon on the right side.

Waxing means "growing or increasing in size".



First Quarter



During the first quarter phase, we see: The right half of the lit Moon.

This means that the Moon and Earth are now side by side.

Waxing Gibbous

During this moon phase we see almost the entire right side of the lit moon.

Gibbous comes from a word that means "camel hump".



Full Moon



During a full moon, we can see the entire half of the moon's lit surface.

This is when the moon is positioned behind the Earth and Sun.

Waning Gibbous

During this moon phase, we see almost the entire Left side of the lit up moon.

Waning means "getting smaller in size".



Last Quarter



During the last quarter moon phase, we see the left half of the Moon lit.

The Moon and Earth are now positioned -side by side- again.

Waning Crescent

During the waning crescent moon phase, we see a sliver of the lit Moon, now on the left side.



MOON QUIZ!!



http://starchild.gsfc.nasa.gov/docs/StarChild/solar_system_level2/moonlight.html