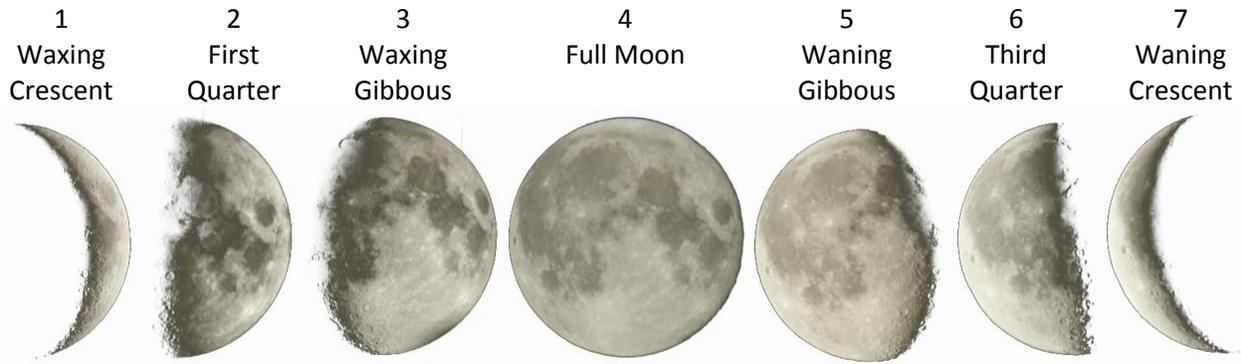


The Moon – What Do You Think?

Below is a diagram showing 7 phases of the moon. The eighth phase (new moon*) is missing.
*A new moon is effectively **no** moon.



1. For each identified moon below, draw a diagram showing the relative locations of the Earth, the Sun and the Moon.



2. What do you think the terms “Waxing” and “Waning” mean?

The Moon

The moon is approximately one-_____ the mass of the Earth and two objects are bound together by _____. Like the Earth, the Moon _____ on an _____ and over time, the Moon's period of _____ and period of _____ have become equal. This phenomenon is known as _____ and is the reason that we always see the same _____ of the Moon.

The fact that we always see the same face of the moon has led people to refer to the side of the moon we don't see as the _____ side of the moon. This term, however, is entirely inaccurate and, instead, we refer the _____ and _____ side of the moon.

The Phases of the Moon

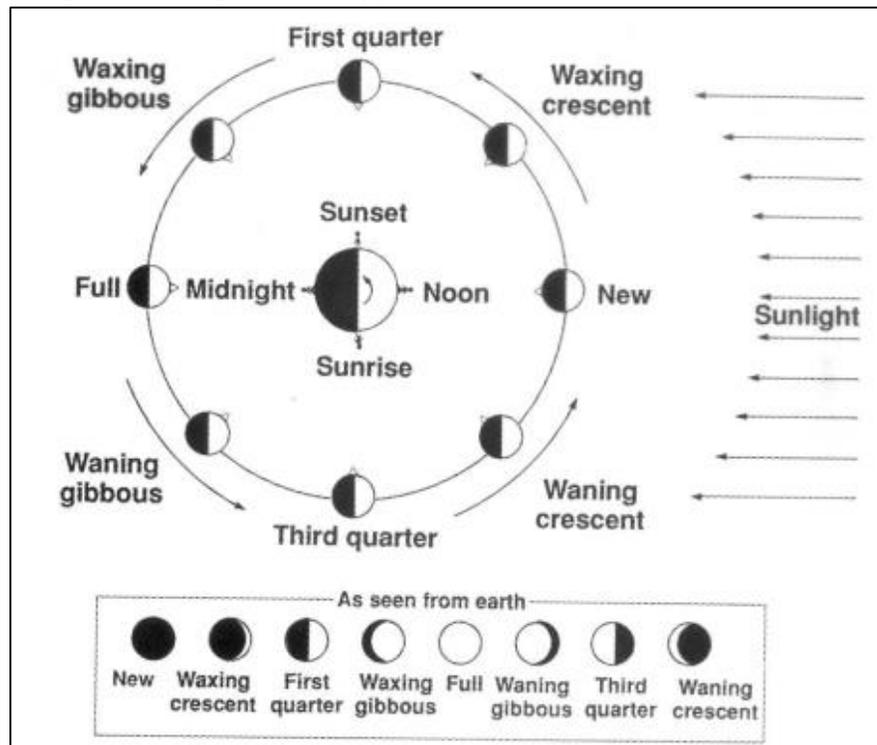
The moon's _____ around the Earth results in a continuous change in the appearance of the moon. Although the changes in the appearance of the moon are continuous,

astronomers have identified ___ main phases (See Diagram).

One complete change of phase is called a _____

and takes about _____ days. This cycle is actually the original basis of one _____.

A full moon occurs when the Earth lies _____ the Sun



and the Moon. However, the moon does not typically lie exactly between the Earth and the Sun as the Moon moves about on a 3-Dimensional path. When the moon does lie exactly between the Earth and Sun, we experience a _____.