

Phases, Eclipses, and Tides

Moon Facts

- 27.3 days to revolve around its own axis
- 27.3 days to revolve around Earth
- What does that mean for us?
 - We always see the same side of the moon!

Phases of Moon

- Phase of moon that we see depends on how much of the sunlit side of the moon faces Earth
- Terminology
 - Waxing – growing/ “born”
 - Waning – shrinking/ “dying”
- Cut out and do your best to put the moon pictures in order
- Tape them in to your science notebook, and number them in the correct order

Eclipses

- Caused by the shadow of one object hitting an area on another object
- Draw or write these into your notebook
 - Solar Eclipse
 - Sun – Moon – Earth
 - Moon small compared to Earth so happen infrequently and cover small area on Earth
 - Lunar Eclipse
 - Sun – Earth – Moon
 - Earth is so large compared to Moon that they happen more frequently and can be seen from larger areas

Solar Eclipse



Lunar Eclipse



Tides

- Caused by moon pulling on Earth and Earth's water
- Area right under moon is having high tide
- Area at 90 degrees from moon is having low tide
- Area across moon is having high tide

