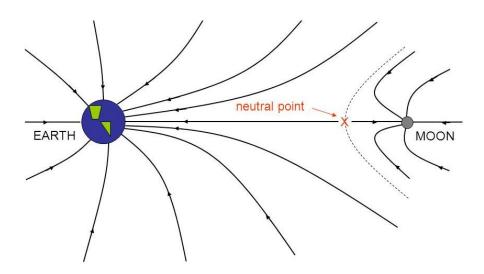


<u>Tides</u>

Introduction

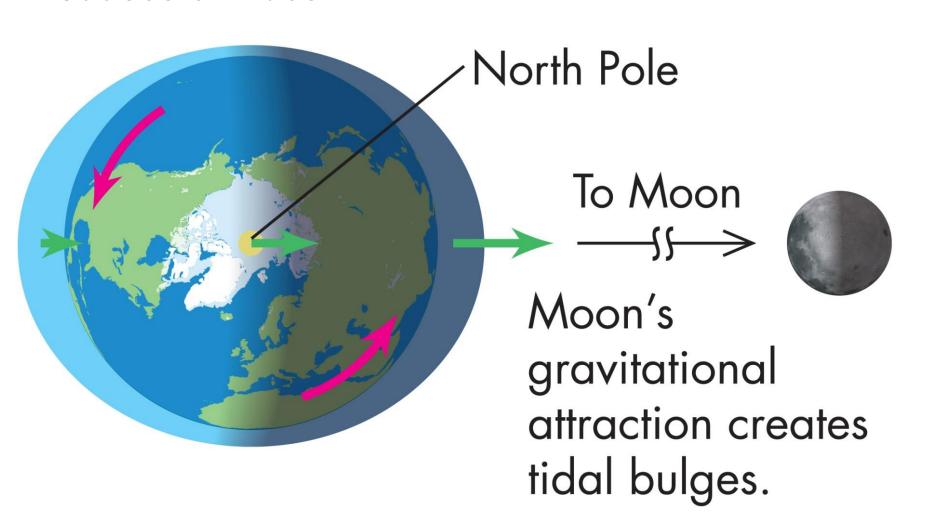
- Tides the ____ and ___ of the Earth's oceans created by the gravitational pull of the Moon
- Just as the Earth pulls on the Moon, the Moon pulls back due to _____ being ____



Causes of Tides

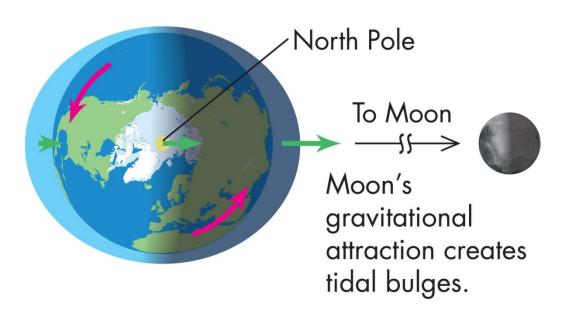
- The attraction of the Earth to the Moon is _____ on the side of Earth that _____ the Moon and _____ on the side that _____ (at the time)
- Gravity weakens with _____
 - The more distance put between the Earth's surface and the Moon at a certain location, the _____ the pull
- Differential Gravitational Force the difference between the _____ force on one side and the _____ force on the other side
 - Earth's side and the Moon

Causes of Tides



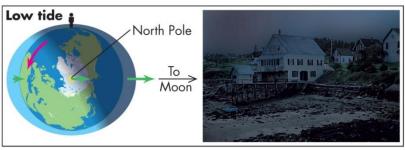
Causes of Tides

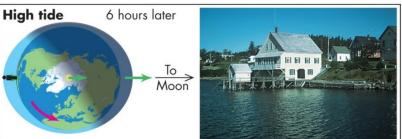
- Tidal Bulge the bulge of a _____ (Earth's surface)
 created by another's _____ attraction to it
 - Two forms: one on the side _____ the pulling object (Moon) and one exactly ____ of it

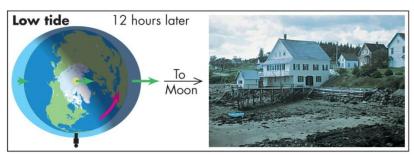


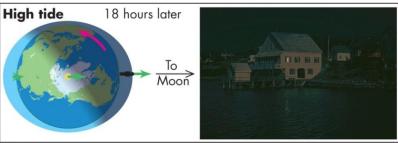
Causes of Tides

- Because of the tidal ____ and Earth's ____ , we experience ____ time frames of "bulging" water and two of "low" water
- 24 hours: 2 _____ tides and 2 ____ tides









(all): © Tom Arny

<u>Tides</u>

Solar Tides

- The Sun can also create ____ on Earth, but because it's so far away, they're ____ the strength of the Moon's
- These aren't really ____ until they join up with the ____ tides
- Spring Tides abnormally large tides that occur during ____ and ____ Moons
- Neap Tides tides that occur during _____ Moons due to the right _____ between Earth, Sun, and Moon

Solar Tides

