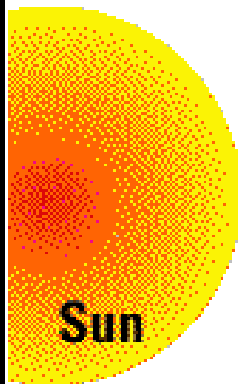


Tides

TIDES

SPRING

NEAP

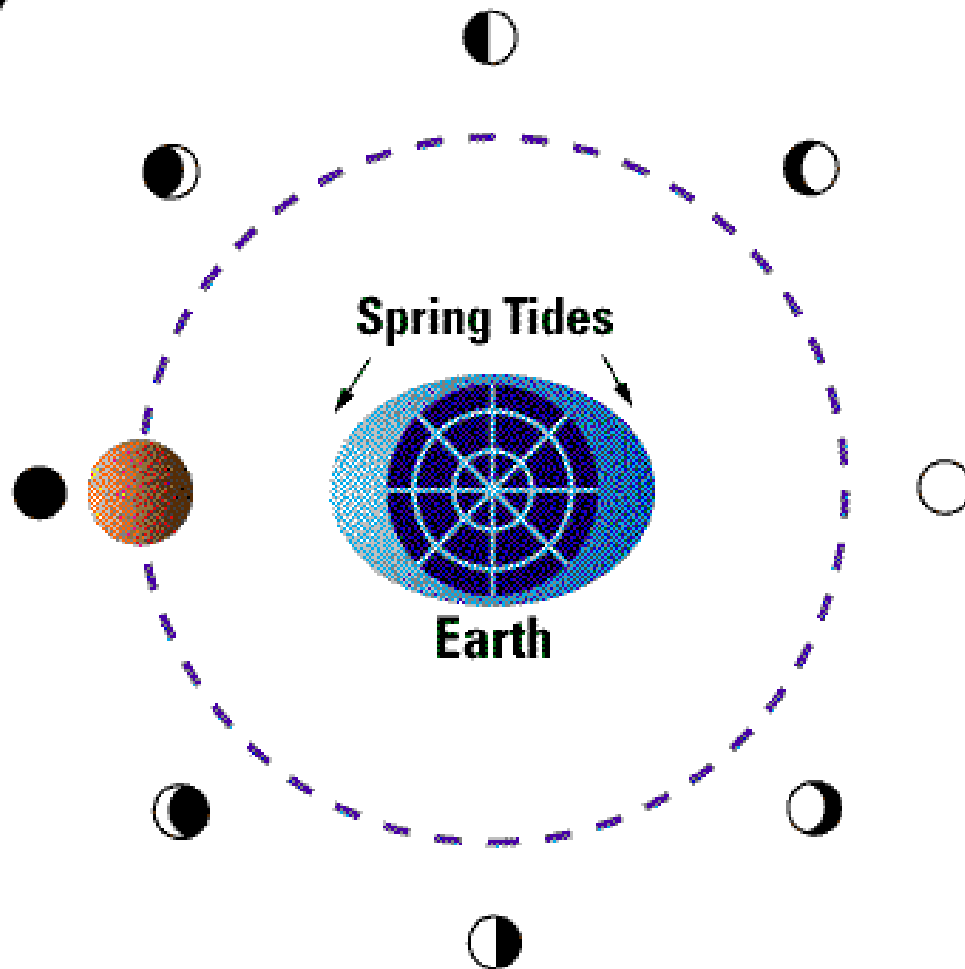


Sun



The Gate™

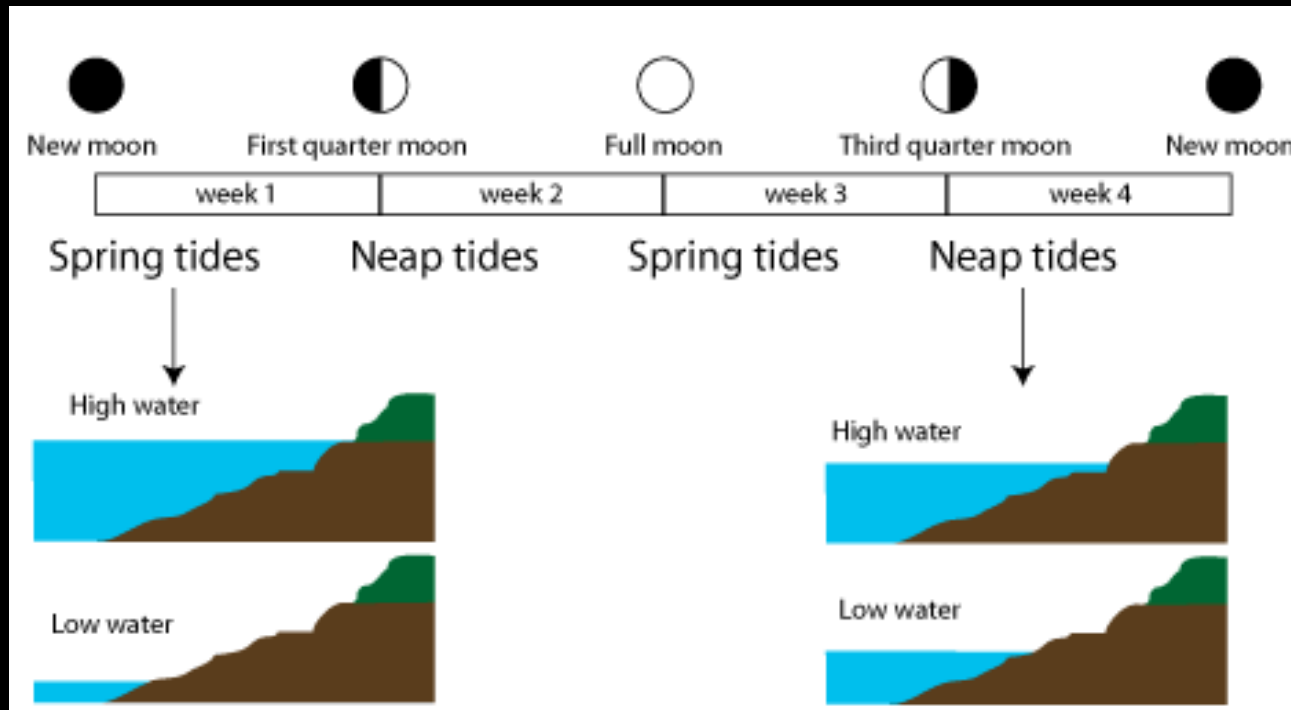
Animation / James Irwin



**What causes
tides?**

**Caused by the
gravitational pull
of the moon & sun**

Based on the diagram,
which types of tides have a larger range?



SPRING TIDES

What angles of the moon

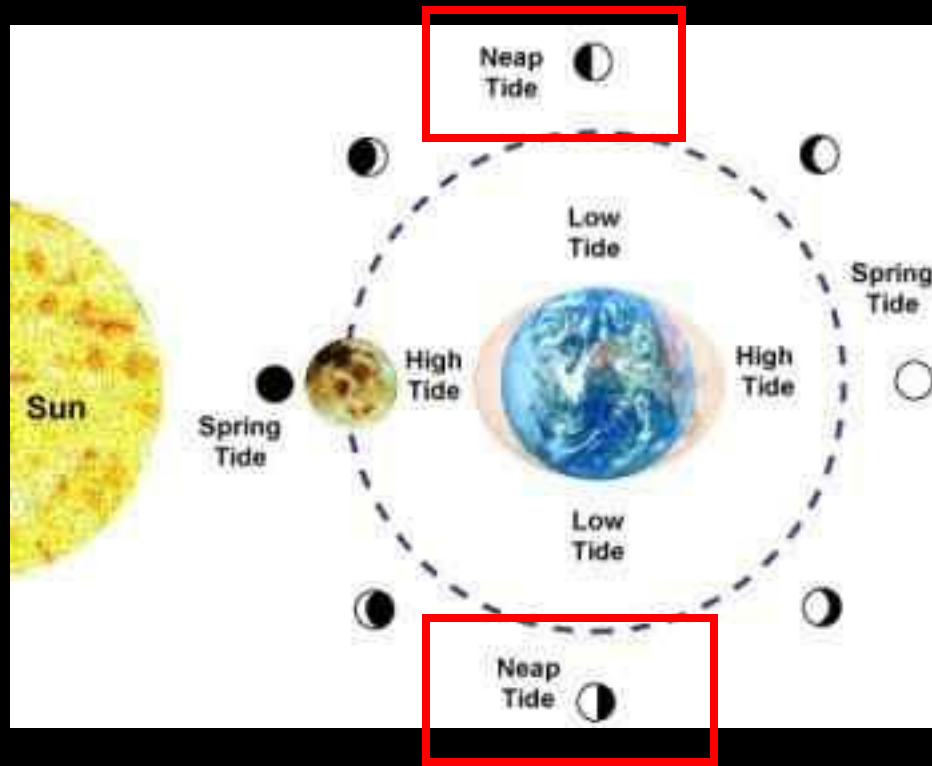


do neap and spring

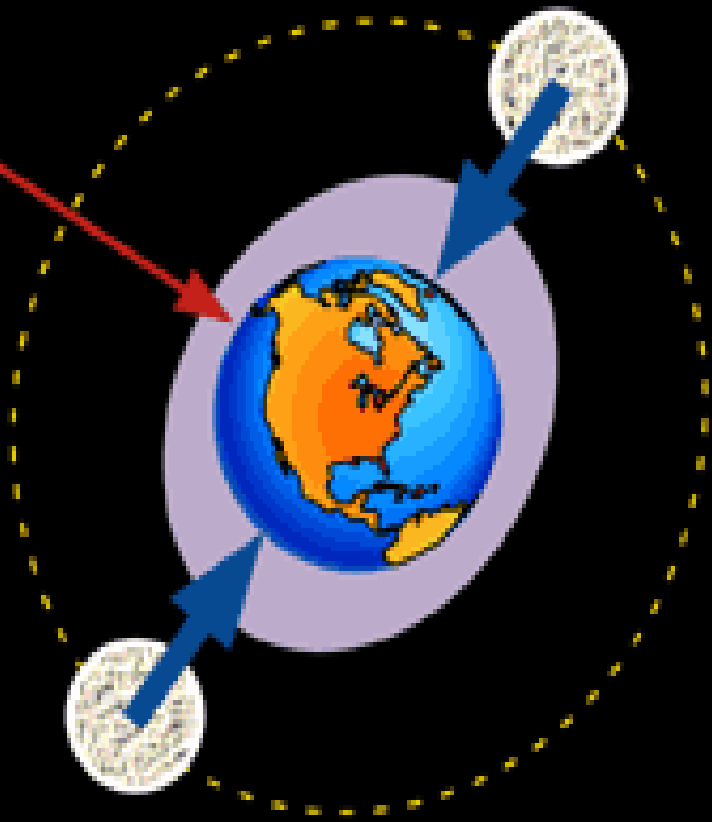
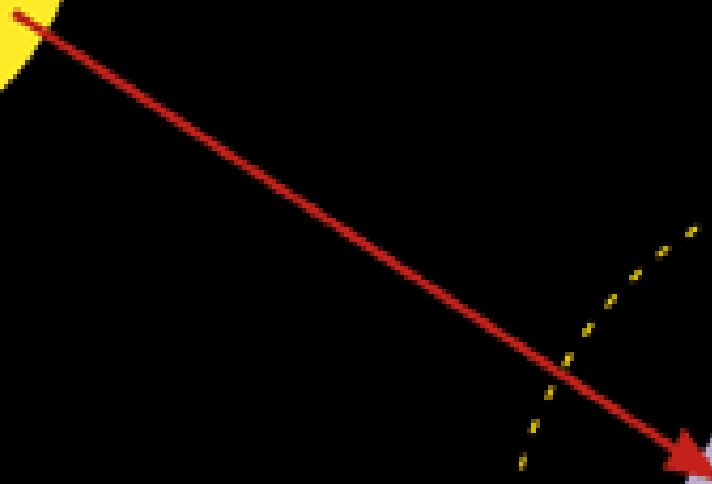
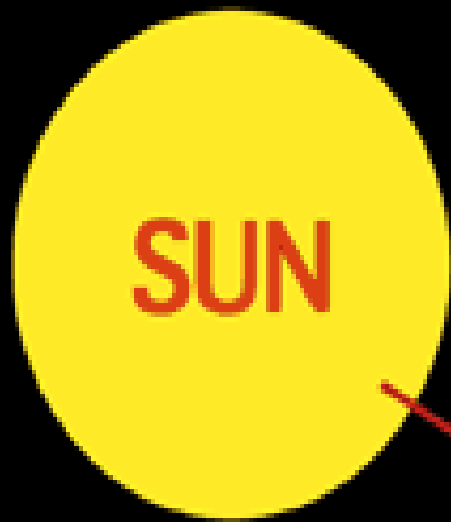
tides occur?

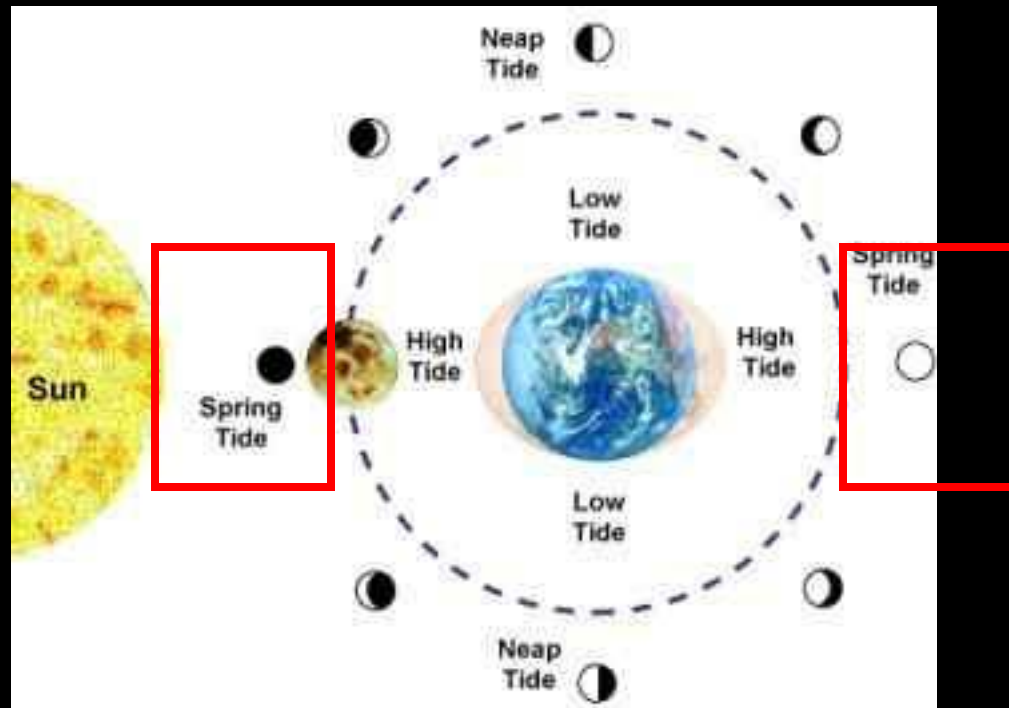






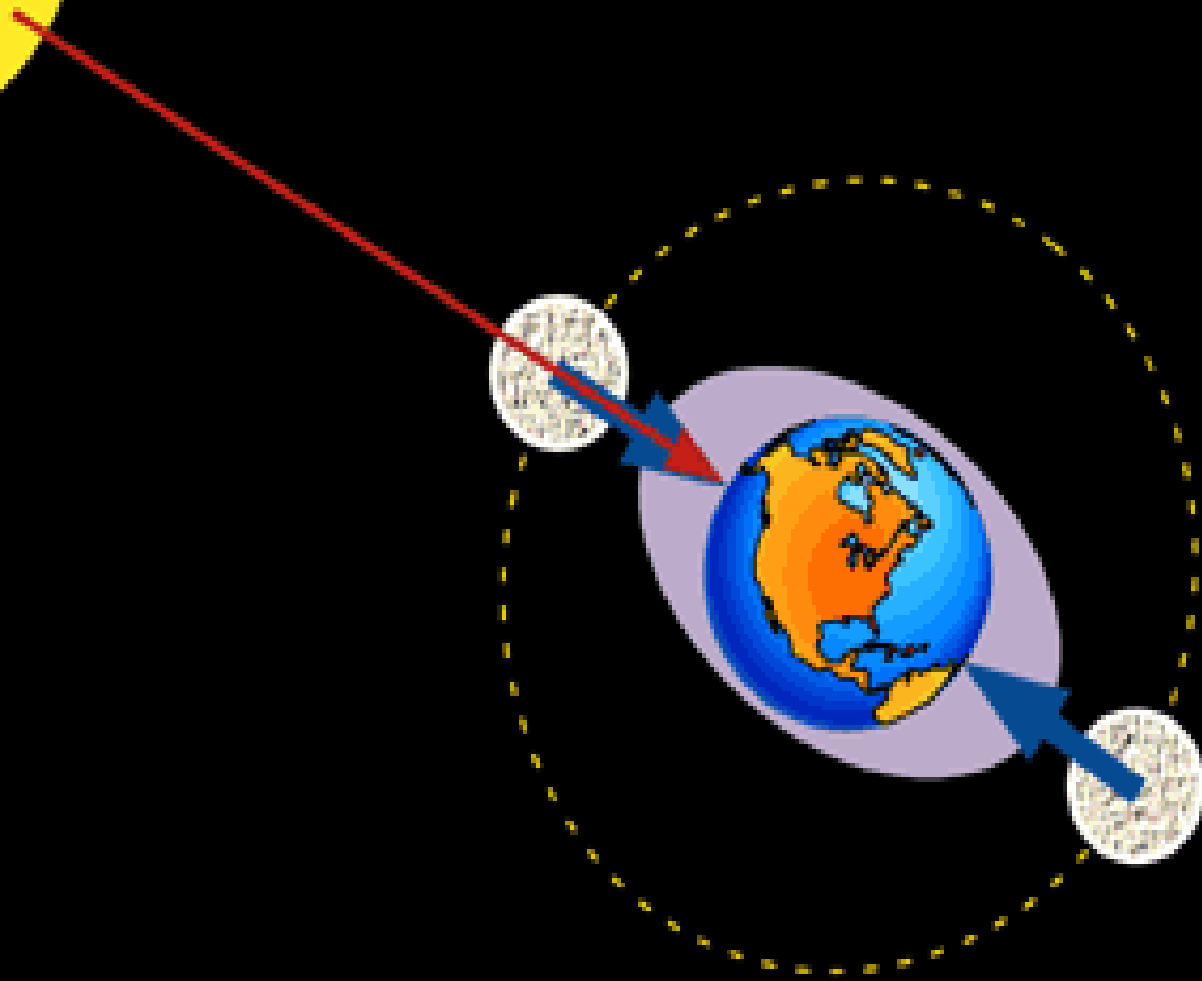
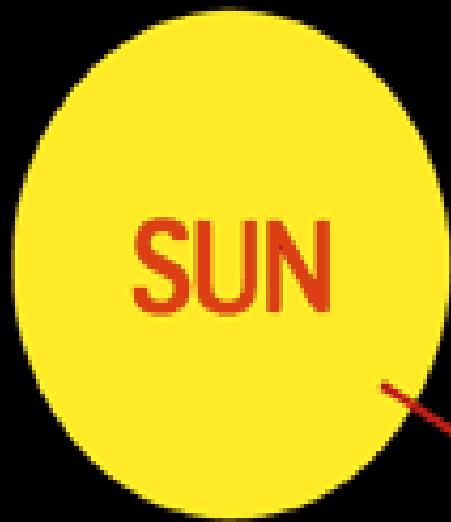
Neap? Right Angles





Spring?

Straight Lines



How many tides a day?

2 high tides

2 low tides

**Why are there not exactly
12 hours between tides?**

***because the moon
revolves around
the Earth while the
Earth rotates***