

11/20

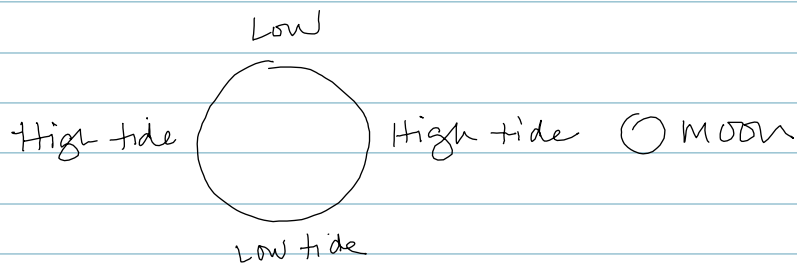
Tides - occur because of gravity  
sun + moon

liquids move more easily

pull of moon differs as it orbits

sun + moon both pull on Earth

moon's pull on ocean is more than sun  
because it's closer



high tide happens where moon  
is (it's also on opposite side)

low tide is at the  $90^\circ$  parts  
of Earth because

neap tide - sun and moon are at  $90^\circ$   
(first + third quarter)

low high tide + high low tide  
(half way between spring tides)

spring tide - sun, moon, earth are lined up  
(new moon + full moon)

\* largest range from high to low  
really high tides  
really low tides