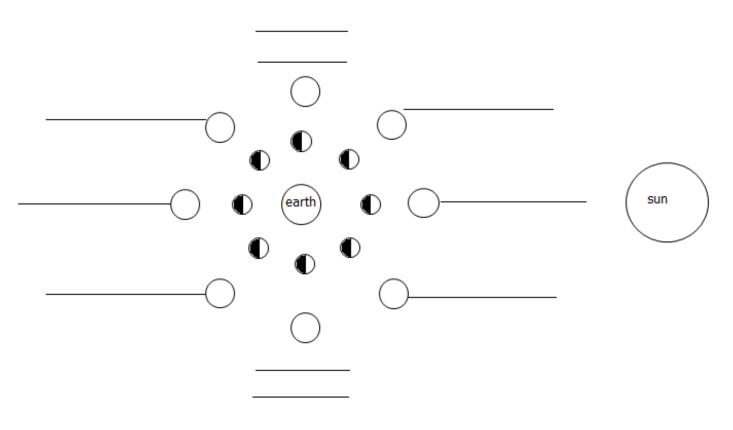
# MOON NOTES IDI pts name\_

MOON --- is named \_\_\_\_\_

#### A. <u>PHASES</u>

 a. PHASES -- caused by moon's orbit around earth causing us to see different amounts of the \_\_\_\_\_\_ side of the moon. This view is looking down at the north pole of earth. Large circles are what we \_\_\_\_\_\_ from earth. Small circles are where the moon is positioned.



- b. \_\_\_\_\_\_ side of the moon faces earth at all times because moon is \_\_\_\_\_\_ on one side than the other
- c. Moon is always \_\_\_\_\_\_ lit up, but we only see portions of the lit side depending on our \_\_\_\_\_\_ from earth

#### B. ECLIPSES

- a. Eclipse—when one object \_\_\_\_\_\_ another object so it's out of view
  - i. \_\_\_\_\_\_ —part of object is blocked from view
  - ii. \_\_\_\_\_all of object is blocked from view
- b. types of eclipses
  - i. \_\_\_\_\_\_ -when earth's shadow blocks out the view of the \_\_\_\_\_\_
    - 1. lasts 2 \_\_\_\_\_
    - 2. everyone on the \_\_\_\_\_\_ side of earth (night time) sees it

- 3. safe to view with no special \_\_\_\_\_
- 4. happen about \_\_\_\_\_\_ times per year

ii. \_\_\_\_\_ —when the moon blocks out the view of the \_\_\_\_\_ (moon is also casting a \_\_\_\_\_ on earth)

- 1. lasts only 7.5
- 2. only can be seen by the people in the \_\_\_\_\_ of the moon
- 3. must use special \_\_\_\_\_ to see it
- 4. happen about \_\_\_\_\_ times per year

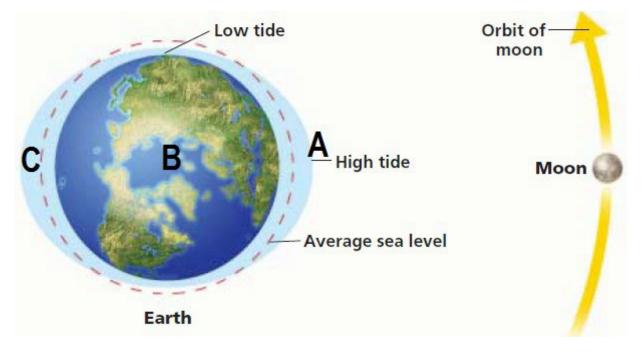
#### C. MOON SURFACE FEATURES

a. \_\_\_\_\_\_ - large pits make from impacts of asteroids

- i. Some are 2 \_\_\_\_\_ years old
- ii. there is no erosion nor plate tectonics to \_\_\_\_\_\_ them away
- b. \_\_\_\_\_ {mar' ee uh} hardened \_\_\_\_\_ fields
  - i. Appear as large, \_\_\_\_\_ pools
  - ii. Once thought to be \_\_\_\_\_\_ of water
  - iii. Large impacts released \_\_\_\_\_\_ flows from below
- c. \_\_\_\_\_ collapsed \_\_\_\_\_ tubes
  - i. look like river \_\_\_\_\_
    - ii. curvy
- d. \_\_\_\_\_ ridges of moon dust
  - i. formed during asteroid \_\_\_\_\_
  - ii. Go \_\_\_\_\_ out from craters
  - iii. Found near \_\_\_\_\_ craters
  - iv. Go away over time as other impacts \_\_\_\_\_\_ them down
- e. \_\_\_\_\_, moon \_\_\_\_, moon "soil"
  - i. Created from \_\_\_\_\_ asteroids
    - ii. \_\_\_\_\_ than sand
  - iii. Neil Armstrong's \_\_\_\_\_\_ are still marking it due to no erosion on the moon

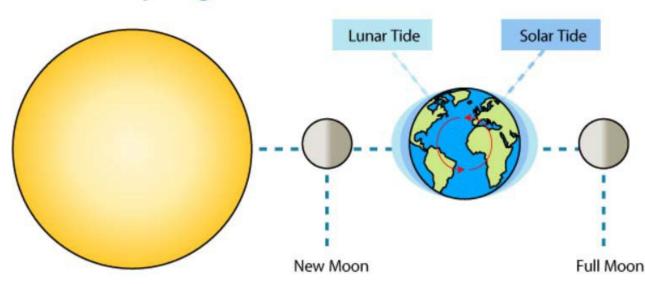
#### D. <u>TIDES</u>

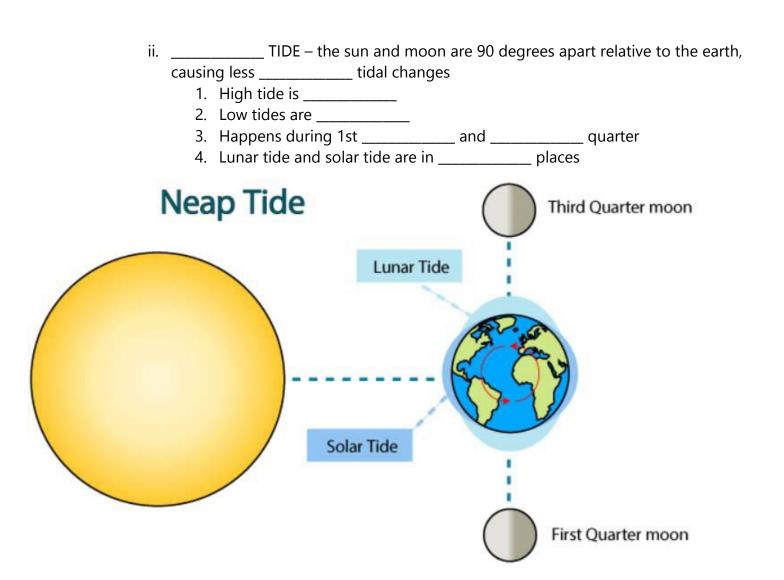
- a. TIDE DEFINITION- the periodic \_\_\_\_\_\_ and \_\_\_\_\_ of the water level in oceans
  - i. \_\_\_\_\_ tide- when water level is lowest
  - ii. \_\_\_\_\_ tide- when water level is highest
- b. Causes of tides
  - i. Moon's \_\_\_\_\_\_ pull- it is more than 2x as powerful as the sun's gravitational pull because the moon is much closer to the earth
  - ii. \_\_\_\_\_\_ gravitational pull- less powerful even though the sun is bigger, it is so far away it has less influence than the moon



- c. Why is there a bulge on the side NOT facing the moon?
  - i. At point a, there is an obvious tidal \_\_\_\_\_\_ because of the moon's gravity.
  - ii. At point b, the moon is pulling on Earth as well, but not as \_\_\_\_\_\_ as at point A, because it's farther away
  - iii. At point c, the moon has the \_\_\_\_\_\_ influence. This water is not tugged on as much, so it gets "left \_\_\_\_\_\_"
- d. Types of tides
  - i. \_\_\_\_\_\_ tide the sun, moon, and earth are all lined up and thus the sun's gravity \_\_\_\_\_\_ to the pull of the moon
    - 1. The \_\_\_\_\_\_ tide is higher
    - 2. The low tide is \_\_\_\_\_
    - 3. Happens during \_\_\_\_\_ moon and full moon
    - 4. Lunar \_\_\_\_\_\_ and solar \_\_\_\_\_\_ are added together

## Spring Tide





- e. Tidal patterns tides are not the \_\_\_\_\_\_ everywhere because bodies of water are different \_\_\_\_\_, \_\_\_\_, and \_\_\_\_\_.

  - ii. \_\_\_\_\_\_ 2 high tides and 2 low tides each day (both about the same height each time)
  - iii. \_\_\_\_\_\_ 2 high tides and 2 low tides each day (different heights each time)
  - iv. Happen about \_\_\_\_\_\_ minutes later each day

### E. MOON FORMATION

- a. large \_\_\_\_\_\_ (size of Mars) hit earth when it was still \_\_\_\_\_
- b. melted chunks of earth \_\_\_\_\_ off
- c. chunks \_\_\_\_\_ (come together) to form a moon
- d. moon is pulled by Earth's gravity into \_\_\_\_\_

**F. MOON SIZE** -- Luna is \_\_\_\_\_\_ the size of earth (in diameter) (only Charron, Pluto's moon has a larger moon/earth ratio