

Name \_\_\_\_\_ Date \_\_\_\_\_ Per. \_\_\_\_\_ Table # \_\_\_\_\_

## **Chapter 12.1 - Love your Mother Earth in Space Notes**

### **Rotation vs. Revolution-**

- *Rotation*- spinning of earth on its \_\_\_\_\_
  - 24 hours = 1 day = 1 \_\_\_\_\_
  - What causes \_\_\_\_\_ and \_\_\_\_\_.
- Earth's movement around the sun is a \_\_\_\_\_.
- One complete revolution = 1 \_\_\_\_\_ = \_\_\_\_\_ days

### **The Seasons**

- Equator does not experience difference in \_\_\_\_\_ and \_\_\_\_\_ in seasons because it receives the most \_\_\_\_\_.
- Poles = \_\_\_\_\_ temperature differences.
- Winter in Alaska = \_\_\_\_\_ of daylight, in summer = sun \_\_\_\_\_.
- Seasons caused by the \_\_\_\_\_ of the \_\_\_\_\_. Tilted \_\_\_\_\_.

### **June in Northern Hemisphere**

- Axis \_\_\_\_\_ towards the \_\_\_\_\_.
- Summer - \_\_\_\_\_ days, \_\_\_\_\_ temperatures.
- NOT caused by the distance from the \_\_\_\_\_, caused by more \_\_\_\_\_.

### **December in the Northern Hemisphere**

- Earth's axis pointed \_\_\_\_\_ from the \_\_\_\_\_.
- Winter = \_\_\_\_\_, days, \_\_\_\_\_ temperatures, due to \_\_\_\_\_ direct \_\_\_\_\_ and fewer hours of \_\_\_\_\_.

### **Solstice**

- June 21st = \_\_\_\_\_ day of the year, considered the first day of \_\_\_\_\_.
- December 21st, \_\_\_\_\_ day of the year, considered the first day of \_\_\_\_\_.

### **Equinox in March and September**

- \_\_\_\_\_ is halfway between each \_\_\_\_\_.
- Equinox - neither hemisphere is pointed \_\_\_\_\_ or \_\_\_\_\_ from the \_\_\_\_\_.
- Equinox = equal \_\_\_\_\_ = \_\_\_\_\_ hours of day/ \_\_\_\_\_ hours of night
- March 21st - \_\_\_\_\_ equinox, Sept. 22<sup>nd</sup> - \_\_\_\_\_ equinox

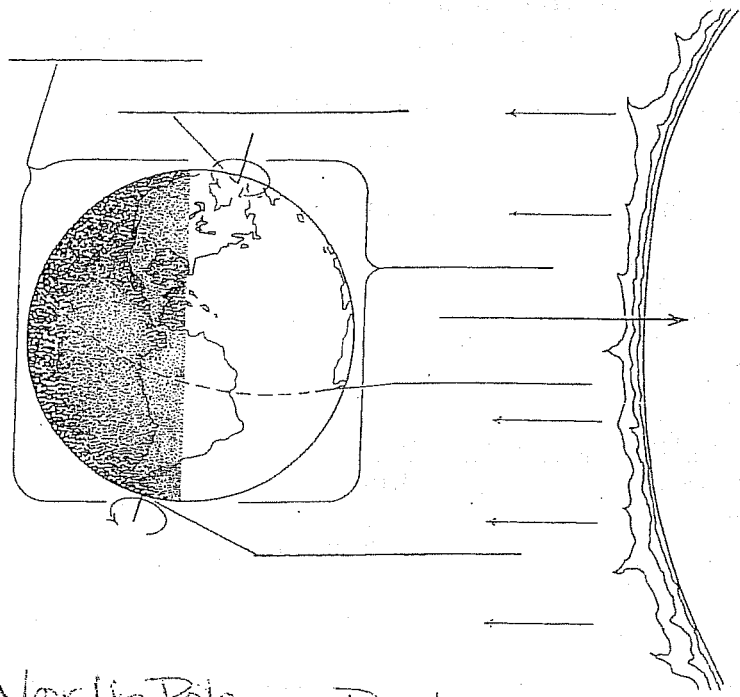
### **Gravity and Motion**

- Recall that \_\_\_\_\_ is a force that attracts \_\_\_\_\_ objects towards \_\_\_\_\_.
- Universal Law of Gravitation - \_\_\_\_\_.
- The strength of gravity is dependent on 2 things: the \_\_\_\_\_ of the objects, and the \_\_\_\_\_ between them.
  - If mass \_\_\_\_\_, gravity \_\_\_\_\_.
  - If distance \_\_\_\_\_, gravity \_\_\_\_\_.
  - **Weight** - the force of \_\_\_\_\_ on an objects \_\_\_\_\_.

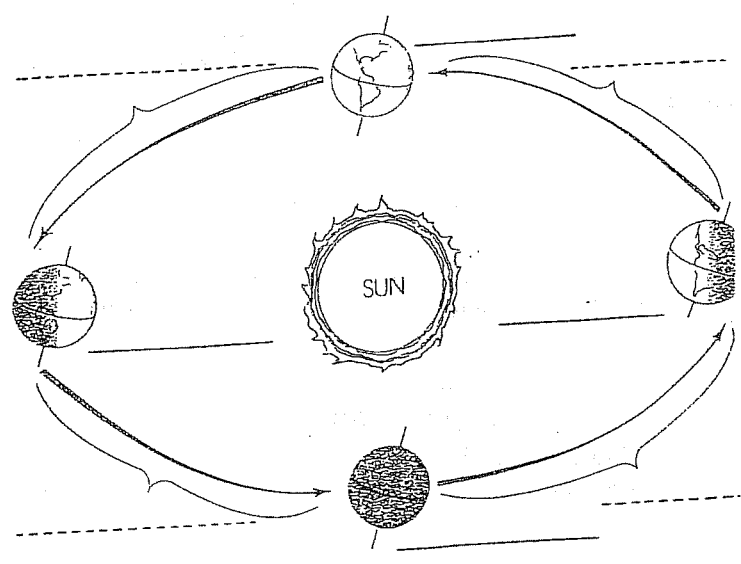
### **Inertia and Orbital Motion**

- Two factors keep \_\_\_\_\_ and the \_\_\_\_\_ in their orbits - \_\_\_\_\_ and \_\_\_\_\_.

- Earth's \_\_\_\_\_ pulls the \_\_\_\_\_ toward it, preventing the moon from traveling in a \_\_\_\_\_ line. The moon keeps moving ahead because of it's \_\_\_\_\_.
- **Inertia** – the tendency of an object to \_\_\_\_\_ a change in \_\_\_\_\_.



- North Pole
- South Pole
- equator
- Day
- Night



WORD BANK

December 22    spring    fall  
 winter    summer