## MsToal Science Introduction to the Earth Name

Orbit of the Earth:

**Average distance from the sun**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ miles or**

**\_\_\_\_ AU**

**Average Orbital Velocity=  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

January \_\_\_\_

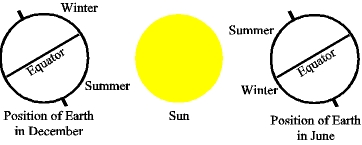
June \_\_\_\_

**Period of   
revolution=**

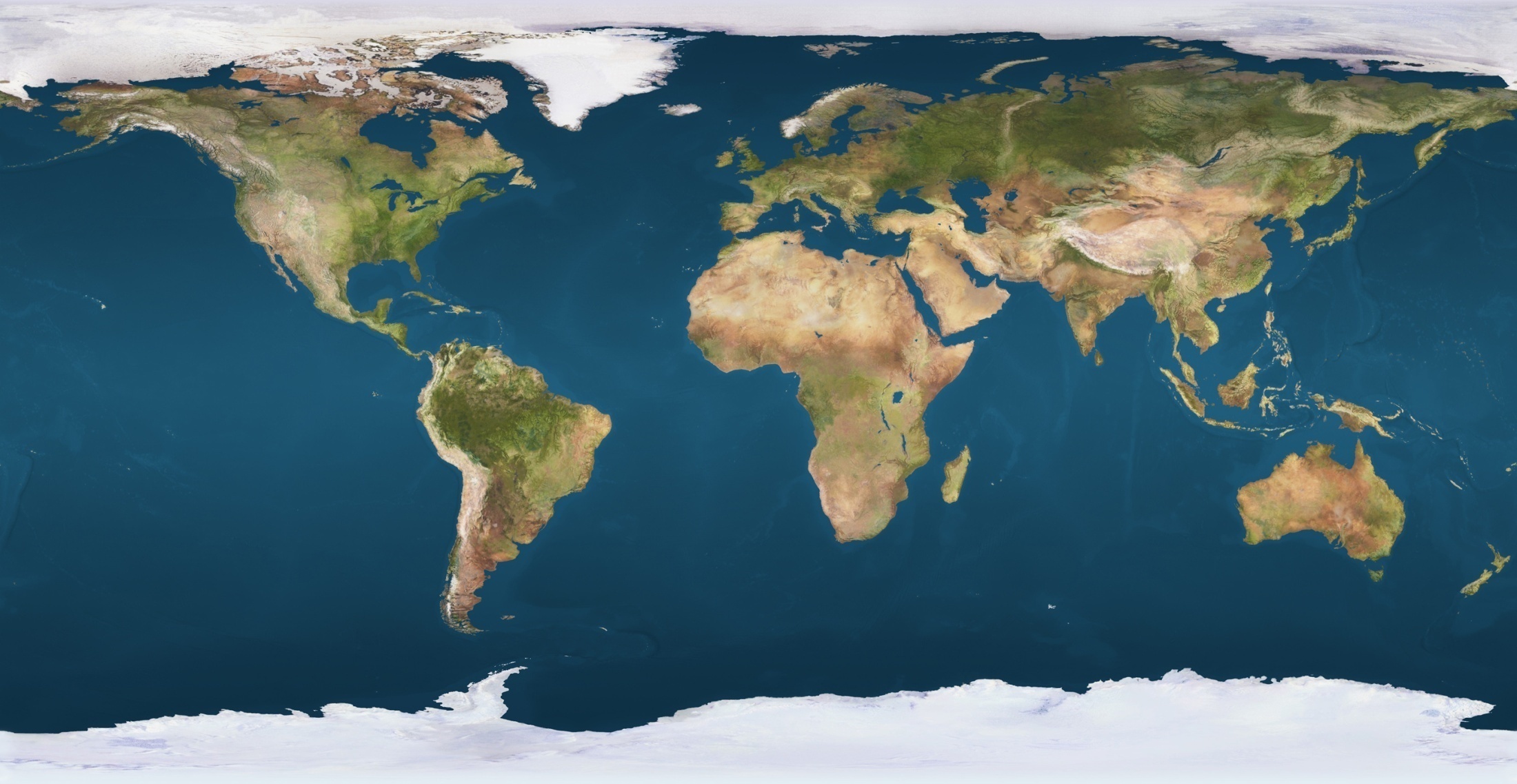
**\_\_\_\_\_\_\_\_days**

The Seasons  
9) caused by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* *NOT* due to changes in the distance of the Earth from the Sun!!!



1) Earth’s Surface



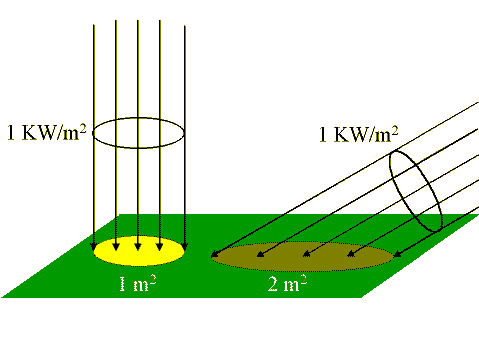
\_\_\_\_\_\_\_%\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_%\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Earth’s Data

2) Age= \_\_\_\_\_\_\_\_\_\_\_\_\_ years old  
3) Diameter: \_\_\_\_\_\_\_\_\_\_\_  
4) Temperature Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
5) Gravity=\_\_\_\_\_\_\_\_\_\_\_\_\_

The tilt of the Earth’s axis affects:  
 10a) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Insolation)  
 how directly the rays of the sun hit the ground

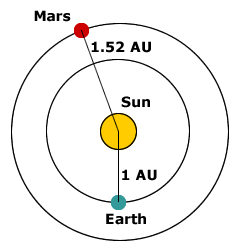


6)Average Distance

●\_\_\_\_\_\_

●\_\_\_ million miles

●\_\_\_\_\_\_\_\_\_\_ from  
 \_\_\_\_\_\_\_\_ \_\_ \_\_\_\_\_

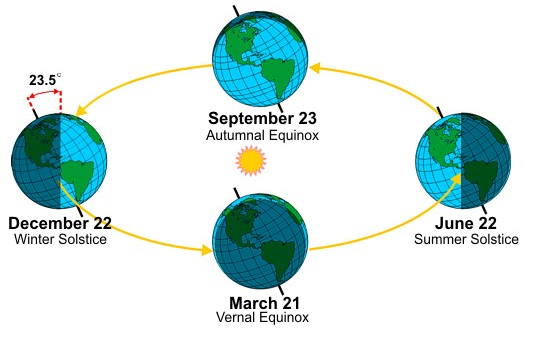


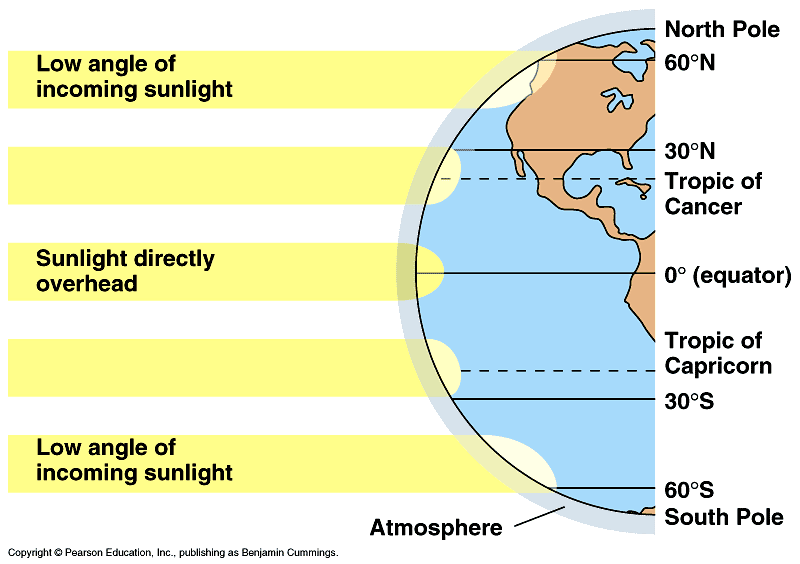
**Motions of the Earth**  
7)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* + daily motion
  + it takes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
    for the earth to spin around \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**8) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* + yearly motion
  + It takes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_for the earth to go around \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   
    Draw Figure 3 Page 465



10b)The Tilt also affects: \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

On page \_\_\_\_\_\_\_ in your blue textbook, there is a diagram of earth as it revolves the sun and it illustrates the tilt of the earth during its four seasons. Draw that diagram on the space below or on a separate piece of paper if you don't have enough room. Yes, label everything like the book and add color.

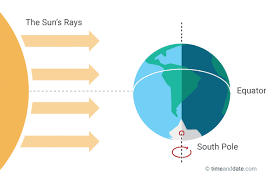
13) Equinoxes:Day = Night equal length

**\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Insolation = \_\_\_\_\_\_\_\_\_\_ Insolation = \_\_\_\_\_\_\_\_\_\_**

**Length of day = \_\_\_\_\_\_\_\_ Length of day = \_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_ in the \_\_\_\_\_\_\_\_\_\_ in the  
Northern Hemispher**e **Northern Hemisphere**



**12) Winter in Livermore**

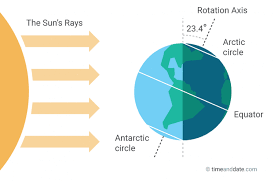
**\_\_\_\_\_\_\_\_\_\_\_**(Winter Solstice)**\_\_\_\_\_\_\_ insolation** for us

**Length of the Day: \_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hemisphere** tilted towards the Sun

Distance from the Sun: 147 Million km \_\_\_\_\_\_\_\_\_\_\_\_

**Coldest Month: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**-**

**11)Summer in Livermore**

**\_\_\_\_\_\_\_\_\_**(Summer Solstice) **\_\_\_\_\_\_\_insolation** for us

**Length of the Day:\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hemisphere** tilted towards the Sun

Distance from the Sun: 152 Million km \_\_\_\_\_\_\_\_

**Hottest Month : \_\_\_\_\_\_\_\_\_**

