## 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 : \_\_\_\_\_\_\_\_\_**

 