MsToal Science Introduction to the Earth Name

Orbit of the Earth:

Average Orbital Velocity= _____

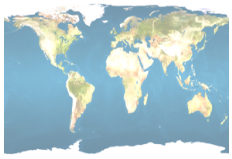
June _____

January _____

Period of revolution= _____**days**

Average distance from the sun _____ **miles or** _____ **AU**

1) Earth's Surface



_____%_____

_____%_____

Earth's Data

2) Age= _____ years old

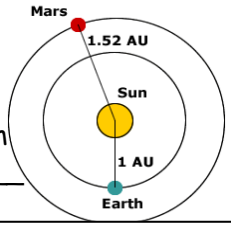
3) Diameter: _____

4) Temperature Range:_____

5) Gravity=_____

6)Average Distance

- _____
- ____ million miles
- _____ from _____ __ _____



Motions of the Earth

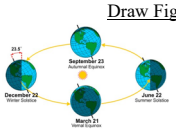
7)_____

- daily motion
- it takes _____ for the earth to spin around _____

8) _____

- yearly motion
- It takes _____ for the earth to go around _____.

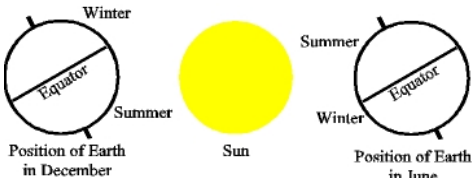
Draw Figure 3 Page 465



The Seasons

9) caused by the _____

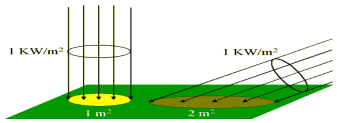
- *NOT* due to changes in the distance of the Earth from the Sun!!!



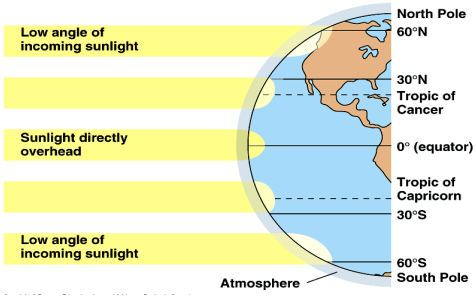
The tilt of the Earth's axis affects:

10a) _____ (Insolation)

how directly the rays of the sun hit the ground



10b)The Tilt also affects: _____



11)Summer in Livermore

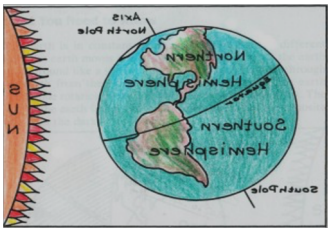
_____(Summer Solstice) _____**insolation** for us

Length of the Day: _____

_____**hemisphere** tilted towards the Sun

Distance from the Sun: 152 Million km _____

Hottest Month : _____



12) Winter in Livermore

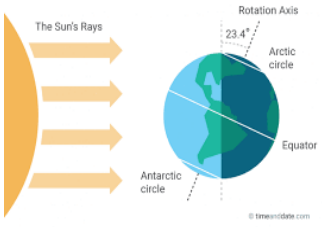
_____(Winter Solstice) _____ **insolation** for us

Length of the Day: _____

_____**hemisphere** tilted towards the Sun

Distance from the Sun: 147 Million km _____

Coldest Month: _____



13) Equinoxes:Day = Night equal length

Insolation = _____

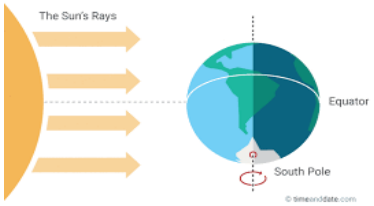
Length of day = _____

in the Northern Hemisphere

Insolation = _____

Length of day = _____

in the Northern Hemisphere



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.