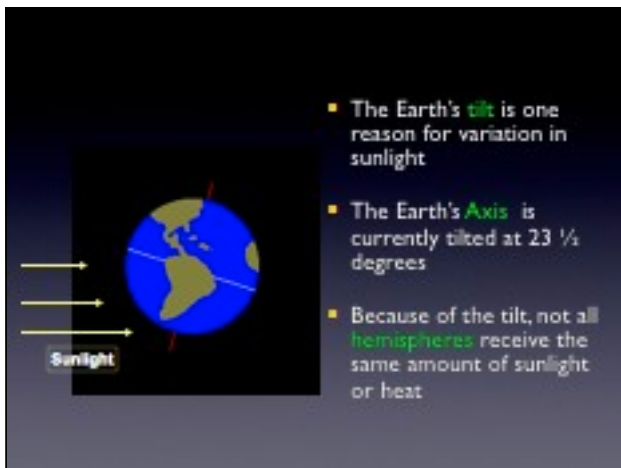
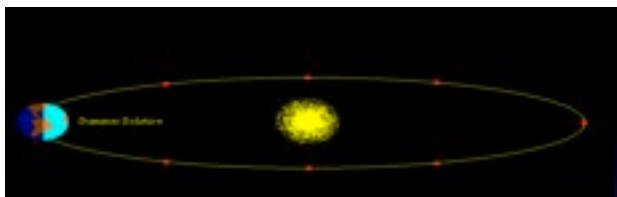




- **Weather** = the atmosphere at one place & time. Can vary greatly
- **Climate** = weather patterns over a long period of time such as the average temperature & precipitation (rainfall)





- 365 Days = **Revolution**
- The Earth's tilt & rotation causes changes in the sunlight that reach different locations on the planet
- The **Equinox** occurs when both Hemispheres receive equal amount of sunlight (12 hours of day /12 hours of night)
 - March 21 (Spring) & Sept. 22 (Fall) for N.Hemisphere



- The sun's rays strike Earth directly at 23.5 degrees North which is called the **Tropic of Cancer**
- The day this happens is called a **Solstice**. (Summer in the Northern Hemisphere). Longest day of the year.



- December 22nd, the sun's direct rays strike the **Tropic of Capricorn** (23 1/2 degrees South)
 - Causes the S. Hemisphere to have Summer

- For six months of the year one pole is always tilted toward the sun and has continuous **sunlight** for six months during summer
- It is continuous **night** for six months during the winter when the poles are tilted away

- During summer at either **pole**, the sun never completely sets

Daily Focus Skills 3-1
Drawing Conclusions

Standard Test Practice

Hours of sunlight in selected cities on June 21, the Summer Solstice in the Northern Hemisphere

LOCATION	LATITUDE	APPROXIMATE DAYLIGHT HOURS
Quito, Ecuador	0°N	12 hours
Guatemala, Cuba	20°N	13 hours
Cairo, Egypt	30°N	14 hours
Beijing, China	40°N	15 hours
Prague, Czech Republic	50°N	17 hours
Ft. Yukon, AK, United States	67°N	24 hours

How many hours of daylight do you think there will be in Hammerfest, Norway (latitude 71°N), on June 21?

A 24 hours C 25 hours
B 12 hours D 0 hours

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Critical Thinking

- Q **Drawing Conclusions** What effects does the earth's tilt on its axis have on your daily life?

Critical Thinking

- Q **Analyzing Information** What would you pack if you were visiting Argentina in December?

Analyzing Diagrams

- Q **Location** Study the diagram of the seasons below. In what months do the sun's rays strike the Equator directly? The Tropics of Cancer and Capricorn?

