**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_**

**Chapter 17-The Atmosphere**

***Section I: Atmosphere Characteristics***

*Composition of the Atmosphere-Major Components*

* Has changed dramatically throughout Earth’s history
* \_\_\_\_\_\_\_\_\_\_\_ started to accumulate about \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-
* \_\_\_\_\_\_\_ is a mixture of different \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, each with its own physical properties
* Composition
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_ is an active \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ given off by earth, so it plays a significant role in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Composition of the Atmosphere-Variable Components*

* Important materials that \_\_\_\_\_\_\_\_\_\_from time to time and place to place include:
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ varies from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by volume
	+ Water vapor is the source of all \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Like CO2, water vapor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the atmosphere allow \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and other solid particles to be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in it. Dust we see in the sky is too \_\_\_\_\_\_\_ to stay in the air very long. Still, many particles are microscopic and remain suspended for larger amounts of time.
* \_\_\_\_\_\_\_\_\_\_\_\_\_ is another variable component of the atmosphere
* Ozone is a form of \_\_\_\_\_\_\_\_\_\_ that combines \_\_\_\_\_\_ oxygen atoms for every molecule \_\_\_\_\_\_\_\_\_\_\_\_
	+ Oxygen we breathe is \_\_\_\_\_\_\_\_\_\_
* There is very \_\_\_\_\_\_\_ ozone in the atmosphere and its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, located in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The ozone layer is critical to \_\_\_\_\_\_\_\_\_ on earth
	+ Ozone \_\_\_\_\_\_\_\_\_\_\_potentially harmful \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from the sun
* If ozone didn’t filter out most of the UV radiation and all of the sun’s UV rays reached the surface of the planet, our planet would be uninhabitable for many living organisms

*Human influence on the Atmosphere*

* Air pollutants are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that occur in concentrations large enough to endanger \_\_\_\_\_\_\_\_\_\_\_\_\_ of organisms
* \_\_\_\_\_\_\_\_\_\_\_ pollutants include: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Emission from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_vehicles account for almost \_\_\_\_\_\_\_ of all primary pollutants
* \_\_\_\_\_\_\_\_\_\_\_\_ pollutants are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_directly in the air
* They form when \_\_\_\_\_\_\_\_\_\_\_ take place among \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and other substances
	+ Ex: Sulfur dioxide enters atmosphere, combines with oxygen to give sulfur trioxide, sulfur trioxide combines with water to create sulfuric acid (acid rain)
* Reactions triggered by \_\_\_\_\_\_\_\_\_\_\_\_\_ are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reactions



*Height and Structure of Atmosphere*

* The atmosphere rapidly \_\_\_\_\_\_\_\_\_\_\_\_\_ as you travel \_\_\_\_\_\_\_\_ from earth until there are too \_\_\_\_\_\_\_\_ gas molecules to detect
* \_\_\_\_\_\_\_\_\_\_\_ Changes
	+ Atmospheric pressure is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Atmospheric pressure is \_\_\_\_\_\_\_\_\_near sea level, and \_\_\_\_\_\_\_ in the mountains
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Changes
	+ The atmosphere can be divided vertically into \_\_\_\_ layers based on \_\_\_\_\_\_\_\_\_\_\_
		1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* \_\_\_\_\_\_\_\_\_\_\_\_\_ layer of the atmosphere, \_\_\_\_\_\_\_\_\_\_\_ to earth’s surface
* About \_\_\_\_\_\_\_\_\_\_\_\_\_ high into the air
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ layer of the atmosphere
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mostly occur here
* Gets \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as you go up in altitude
	+ Decreases about 6°C for every km of altitude
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ exists as the ­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_ of the troposphere
	+ This is where temperature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Tropopause keeps \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Though it is generally warmer near the surface, \_\_\_\_\_ air sometimes gets \_\_\_\_\_\_\_\_\_\_\_ beneath \_\_\_\_\_\_\_\_ air, called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Can cause \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Layer \_\_\_\_\_\_\_\_\_\_\_ the troposphere
* Extends about \_\_\_\_\_\_\_\_\_\_\_\_ into the air (so about \_\_\_\_\_\_\_\_\_ miles thick)
* Has little \_\_\_\_\_\_\_\_\_\_\_\_, few \_\_\_\_\_\_\_\_\_, and no\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Gets\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as you go up in altitude
	+ Remains at about -67ºF from the top of tropopause to about 16 mi
	+ Then it starts to increase to about 32ºF
* The \_\_\_\_\_\_\_\_\_\_\_ layer exists at the\_\_\_\_\_\_\_ of the stratosphere

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Layer \_\_\_\_\_\_\_\_\_\_\_\_the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Extends to about \_\_\_\_\_\_\_\_\_\_\_\_\_ into the air, so its about \_\_\_\_\_\_\_\_ thick
* Temperature \_\_\_\_\_\_\_\_\_\_\_ as you go\_\_\_\_\_in altitude (like in the \_\_\_\_\_\_\_\_\_\_\_\_\_)
* This is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ layer in the atmosphere; temperatures fall below -112ºF
* This layer has no well-defined upper limit
* This is where we see \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – meteors burning up as they fall to Earth

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* The layer that exists between the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* In this layer, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is absorbed and electrically charged ions are formed
* Electrons in the ionosphere \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, allowing them to be \_\_\_\_\_\_\_\_\_\_\_\_\_over long distances
* Without the ionosphere, most radio signals would travel \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Because the ions require solar energy, the ionosphere is \_\_\_\_\_\_\_ (thicker) during the \_\_\_
* This means radio waves can travel \_\_\_\_\_\_\_\_\_\_\_ into the atmosphere at \_\_\_\_\_\_\_\_ before being reflected.
* The radio waves return to Earth’s surface farther from their source than they do in the daytime
* The ionosphere is also where \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ take place
	+ Auroras form when energetic ions from the sun hit atoms and molecules in the ionosphere
	+ Are seen encircling Earth’s Magnetic poles

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Layer above the \_\_\_\_\_\_\_\_\_\_\_\_\_\_, extends to about \_\_\_\_\_\_\_\_\_\_\_\_\_ into the air, so it is about\_\_\_\_\_\_\_\_\_\_\_\_\_thick
* This is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ layer of the atmosphere
* Temperatures start to\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Temperatures in this layer average around \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_ portion of the thermosphere at about 298 miles up, is known as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Some gases escape the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the Earth and escape into \_\_\_\_\_\_\_\_\_\_\_. Some gases are pulled in by gravity from space and add to the Earth’s atmosphere



\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Region in \_\_\_\_\_\_\_\_\_\_\_\_ (so \_\_\_\_\_\_\_\_ really a part of the atmosphere) whose \_\_\_\_\_\_ is determined by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Here, a mix of free ions and electrons from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is confined by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Provides protection to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Section II: Heating the Atmosphere***

*Energy Transfer as Heat*

* \_\_\_\_\_\_\_\_ is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from one object to another because of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the object’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a measure of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the individual atoms or molecules in a substance

*Electromagnetic Waves*

* The \_\_\_\_\_ is the ultimate source of \_\_\_\_\_\_\_\_ that creates our \_\_\_\_\_\_\_\_\_\_\_
* The sun emits \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Three Mechanisms of Heat Transfer*

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ the transfer of heat \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Energy is transferred through \_\_\_\_\_\_\_\_\_\_\_\_\_\_ from one molecule to another
	+ Heat flows from the \_\_\_\_\_\_\_\_\_\_ temperature matter to the \_\_\_\_\_\_\_\_\_ temperature matter
	+ \_\_\_\_\_\_\_\_ are \_\_\_\_\_\_\_ conductors, \_\_\_\_\_\_\_ are \_\_\_\_\_\_\_\_\_\_\_\_ conductors
	+ This is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mechanism of heat transfer for the atmosphere
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Much of the heat transfer that occurs in the atmosphere is carried on by convection
	+ Transfer of heat by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Takes place in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Radiation is the transfer of heat \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Unlike convection and conduction, which need material to travel through, radiant energy can travel \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ There are \_\_\_\_ laws governing radiation
	1. ­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		+ The atmosphere does not absorb certain wavelengths of radiation, but it is a good absorber of other wavelengths

W*hat happens to solar radiation?*

* Usually there are three different results
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs when light \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ an object. Reflection radiation has the \_\_\_\_\_\_\_\_\_ intensity as \_\_\_\_\_\_\_\_\_\_\_\_\_\_ radiation
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ produces a \_\_\_\_\_\_\_\_ number of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that travel in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ directions
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: about \_\_\_\_\_ of the solar energy that strikes the top of the atmosphere \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the \_\_\_\_\_\_\_\_ of Earth’s surface and atmosphere from solar radiation being absorbed and emitted by the atmosphere, mainly by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Section III: Temperature controls***

* A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is any factor that causes temperature to \_\_\_\_\_\_\_\_\_from place to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Factors other than latitude that exert a strong influence on temperature include heating of land and water, altitude, geographic position, cloud cover, and ocean currents

Land vs Water

* Land heats \_\_\_\_\_\_\_\_\_\_\_\_ and to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than water
* Land \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than water

Geographic Position

* Geographic setting can greatly influence temperatures at a specific location
	+ Leeward-wind blows from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Windward-wind blows from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Which has greater temperatures extremes:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Influence of mountains
	+ Moutains act like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Which will show more extremes: near coast or near mountains

Altitude:

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

Cloud Cover and Albedo:

* \_\_\_\_\_\_\_\_\_\_\_ is the \_\_\_\_\_\_\_\_\_of \_\_\_\_\_\_\_\_ radiation that is reflected by any surface
* Many clouds have \_\_\_\_\_\_\_ albedo and therefore reflect back to space a significant portion of the sunlight that strikes them
* When have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

World Distribution of Temperature

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are lines that \_\_\_\_\_\_\_\_\_ points that have the \_\_\_\_\_\_ temperature
* Isotherms generally trend from \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and show a \_\_\_\_\_\_\_\_\_\_ in temperatures from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_