Earth Science Names:

## "What Factors Affect Climate?" Slideshow Questions

## ALWAYS TRY TO ANSWER IN FULL SENTENCES.

1)	By what energy transfer process does the Sun's energy reach Earth"
2)	What are the two most important types of <b>insolation</b> ?
3)	Because Earth is a 3-D sphere, compared with areas at low latitudes, climates in high latitudes are generally (warmer) (cooler).
4)	Most locations outside the Tropics have (wet/dry)(warm/cool) seasons because Earth's axis is (tilted)(perpendicular) to the plane in which Earth (revolves)(rotates) around the Sun.
5)	In the Tropics, instead of warm and cold seasons, many climates have (wet)(dry) summers and (wet)(dry) winters. The is called a <u>M</u> climate.
6)	What two factors are most important in creating three wind-pressure zones in each hemisphere?
7)	Compared with areas having a low elevation, the climate in areas at high altitude are generally (warmer) (cooler).
8)	Locations on the (leeward)(windward) side of mountains facing an ocean generally are (wetter)(drier) than locations on the (leeward)(windward) side.
9)	What are two mountain ranges in the western USA that show this type of "topographic climate" effect?

10) Areas downwind of the Great Lakes usually receive (more)(less) snow and rain.
11) Compare with areas farther inland, coastal areas generally have a (wider)(narrower) range of annual temperatures with (warmer)(cooler) summers and (warmer)(cooler) winters.
12) Who is the State Climatologist and where does he teach?
13) Select and compare temperature patterns for two different time periods (at least 1 yeal long).
14) Select and compare precipitation patterns for for two different time periods (at least 1 year long).
15) Why is the "greenhouse effect" important for our planet?
16) What are the two most important greenhouse gases?
17) What are three natural factors that can change climate?
18) What are two human-induced factors that can change climate?
Summary—On another sheet of paper, discuss the most important concepts you have learned through this presentation.