**Climate – Review Guide** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_

**Five main FACTORS that affect climate:**

1. **Surface Features**

|  |  |  |
| --- | --- | --- |
| **Feature** | Latitude and/or Additional Locations Found | Describe the effect on climate– NOT JUST whether it is warmer… but **WHY** it makes it warmer/colder… |
| **Snow & Ice** |  |  |
| **Soil & Water** |  |  |

1. **Elevation**

|  |  |
| --- | --- |
| **Type of Elevation** | Describe the effect on climate– NOT JUST whether it is warmer… but **WHY** it makes it warmer/colder, wetter/drier… |
| **High (Mountains)** |  |
| **Sea Level (No mountains)** |  |

1. **Latitude & Solar Radiation**

|  |  |  |  |
| --- | --- | --- | --- |
| **Latitude** | Direct/Indirect Light | Describe **how** the amount of sunlight varies during the year. | Describe **how tilt** creates unique climate zones in each of these areas. |
| **0-30N/S** |  |  |  |
| **30-60N/S** |  |  |  |
| **60–90N/S** |  |  |  |

1. **Location**

|  |  |  |
| --- | --- | --- |
| **Proximity to Water** | Describe how inland vs. coastal climates found at the same latitude vary. | EXPLAIN WHY Inland vs. Coastal varies |
| **Inland** |  |  |
| **Coastal** |  |  |

1. **Wind Direction/Precipitation**
   1. Draw in the global wind patterns on the Earth below.
      * Make sure to include where winds start from.
      * Make sure to take the Coriolis effect into account.
   2. Name the global wind patterns on the Earth below.
   3. Draw clouds where they would be most likely to form on the Earth below.
   4. Did you draw clouds at the poles on the map below?
   5. At what latitudes are most of the world’s deserts located?
      * How much vegetation do deserts have?
      * Label the latitudes of deserts on the map above.
   6. Between what latitudes is the most rainfall received?
      * What is that climate zone called?
      * How much vegetation do these latitudes have?
      * Label this climate zone on the map above.
   7. Are the poles dry or do they have a lot of precipitation?