Climate Guided Reading

*(Ch.21)*

Read Chapter 21 and answer the questions below.

1. What powers the climate system?
2. Complete the table while reading through 21.1

|  |  |
| --- | --- |
| **Factor** | **Effects on Climate** |
| Latitude |  |
| Elevation |  |
| Topography |  |
| Water Bodies |  |
| Global Wind |  |
| Vegetation |  |

1. Differentiate between tropical, temperate, and polar zones.
2. What does the Koppen Climate Classification System use to differentiate between climates?
3. Complete the table below for each climate type.

|  |  |  |
| --- | --- | --- |
| Climate | Temperature | Precipitation |
| Humid, Tropical |  |  |
| Dry |  |  |
| Humid mid-latitude (Mild Winters) |  |  |
| Humid mid-latitude (Severe Winters) |  |  |
| Polar |  |  |
| Highland |  |  |

1. Besides natural processes, what else can impact climate change?
2. Complete the Table below using the information from 21.3

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| --- |
| Climate Change |
| Natural Causes | Effect |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. What is the Greenhouse Effect?
2. What are the major gases involved in the Greenhouse Effect?
3. For how many years, have human activities strengthened the Greenhouse Effect?
4. What human activities have contributed to the adding greenhouse gases to the atmosphere?
5. What is Global Warming?
6. What effects could Global Warming have on the Earth besides an increase in temperature?