**World Geography 3202**

**Unit II: World Climate Patterns**

**Chapter 4:**

***Understand the concepts of the following and how the influence climate:***

|  |  |  |  |
| --- | --- | --- | --- |
| Weather | Solstice | Low pressure | Convectional rain |
| Climate | Cloud cover | Trade winds | Frontal rain |
| Rotation | Temperature range | Polar easterlies | Ocean currents |
| Revolution | Reversal of temp in N and S hemispheres | Westerlies | Monsoon |
| Tilt on axis | Winds | Coriolis force | Elevation |
| The seasons | Prevailing winds | Pressure belts around the world | Windward |
| Equinox | High pressure | Orographic rain | Leeward |
| Latitude | Rainshadow |  |  |

***What are the relationships between:***

18. weather & climate

19. revolution, and earth's tilt on its axis (hint: seasons)

20. temperature & latitude

21. how high & low pressure creates a convection cell

22. how land & sea breezes contribute to monsoons

23. the pressure belts of the world & the 3 main wind patterns

24. how the seasons create a shift in the pressure belts and prevailing wind systems

25. ocean currents and moderating temperatures

26. temperature range and distance from the coast

27. amount of precipitation and distance from the coast

28. temperature and elevation

29. precipitation and elevation

30. Know why winter & summer monsoons happen.

***c) Know why the following things happen:***

31. Why the earth's shape changes the intensity of solar radiation (latitude)?

32. Why does the length of day & night change as the seasons change?

33. What factors account for the differences in temperatures as seasons change?

34. Why does only 1\2 of the earth's solar energy reach its surface?

**Chapter 5:**

35. Know the difference between each of the climate regions & sub regions.

* Know the temperatures, temperature ranges, precipitation levels, winds, cloud cover, location, examples of where they are located in the world.
* Be able to identify each region by a description given
* Be able to identify each region by a set of temperature & precipitation statistics given.

36. Demonstrate by using examples how human activity is influenced by climatic conditions.

37. Argue a preference for the appeal of selected climatic conditions.

38. Examine threats posed by selected climatic conditions.