**Science 2200 Study Guide**

***STSE 2-1, What do you Know Already, 4.1 and 4.3***

**STSE 2-1 Weather Lore (1 worksheet)**

1. What is weather? How is it related to climate?
2. What is weather lore?
3. Why is (was) weather forecasting so important to people? \*
4. Identify three observations in nature used to predict weather.
5. What is a short term forecast? What is a long term forecast?
6. Are forecasts made using weather lore accurate? Explain. \*
7. When does the winter solstice occur and what does it signify?
8. When does the spring equinox occur and what does it signify?

**What do you Know Already (3 worksheets)**

1. Know worksheet on weather trivia – 20 questions
2. Why are five day forecasts often wrong? \*
3. Why do you think the weather is warm in the summer and cold in the winter?
4. Why do you think scientists predict that climate changes will lead to more severe weather? \*
5. Know all the symbols on a weather map

* **rain, freezing rain, snow, thunder or lightening,**
* **Warm front, cold front, occluded front, stationary front,**
* **high pressure system, low pressure system, jet stream**

1. Know how to use weather maps to predict the weather. \*
   1. **Forecasting the Weather (2 worksheets)**
2. Know worksheet on forecast sayings.
3. Is the behaviour of plants and animals more likely to reflect short-term or long-term weather forecasting? Give eight reasons why? \*

**4.3 North American Weather Systems (3 worksheets)**

1. Explain why the weather is more difficult to forecast in mid-latitude regions. \*
2. Describe an air mass.
3. Be familiar with each type of air mass. Give the place where it first forms and describe it.
4. Continental Polar
5. Maritime Polar
6. Maritime Tropical
7. Maritime Polar
8. If a weather map is shown in black and white, how can you tell a stationary front from and occluded front?
9. What is a front?
10. Describe the four kinds of fronts.
    1. Cold
    2. Warm
    3. Occluded
    4. Stationary
11. Is it important for Canadian meteorologists to exchange data and research studies with other meteorologists from other countries? Justify your answer. \*
12. What is a weather system?
13. In what direction does a weather system move?
14. Know activity on North American Weather Systems.