**Enviroliteracy Air & Climate Reading Guide 2 (www.enviroliteracy.org)**

*Air & Climate, Weather (Humidity – Seasonal Changes & Predictions)*

Humidity

1. What is humidity?
2. Which holds more water, warm air or cool air?
3. What is relative humidity?
4. What is the relative humidity of an air mass at its saturation point?
5. What is dew point?
6. What is absolute humidity?
7. How does water vapor act as a greenhouse gas?

Hurricanes

1. What wind speed is required to classify a storm as a hurricane?
2. What are hurricanes called in the Northern Pacific? In the Southwestern Pacific and Indian Ocean?
3. Where do hurricanes form?
4. Why don’t hurricanes form within five degrees latitude of the equator?
5. When do hurricanes typically form?
6. Explain how a hurricane forms.
7. What direction do storms circulate in the northern hemisphere? Southern hemisphere?
8. Describe the eye of a hurricane.
9. How are hurricanes classified? Explain and give examples.
10. Why do hurricanes lose energy when they hit land?

Precipitation

1. What is precipitation?
2. Why is precipitation an important part of the hydrologic cycle?
3. How does rain form? When does it fall?
4. How does climate affect rainfall? Give an example.
5. How does freezing rain form?
6. What is sleet? How does it form?
7. How does hail form?
8. What is a snowflake? How do they form? What conditions are required for snowfall?
9. What damage can be caused by each type of precipitation?
10. What do climate change models predict about precipitation?

Seasonal Changes & Predictions

1. What is the tilt of the earth? How does this affect solar radiation?
2. Describe the position of the earth during summer in the northern hemisphere. Include a diagram.
3. What produces seasons?
4. What is meteorology?
5. How do cycles like El Niño and the Pacific Decadal Oscillation help with seasonal climate predictions?
6. Why is it important to have accurate seasonal forecasts?