**Sixth Grade Science**  
**Unit 3: Meteorology**

1. What causes weather? What causes wind?

2. How do temperature changes/ranges differ between the coast and inland, and why do people live near the coast?

3. What is the impact of ocean currents on the land next to them? Include the Gulf Stream and the California Current in your answer.

4. Why does the average temperature change as you move from one latitude line to another?

5. Draw and label land and sea breezes with air temperatures, densities, wind direction, and pressure. Include the heat capacity of water and land.

6. Order the following in heat capacity from high to low: water, dark rocks, light rocks. Explain.

7. Explain what happens when you heat materials with different heat capacity.

8. Draw and label a convection current. Include pressure and temperature.

9. Describe how dangerous storms like hurricanes and tornados form (include humidity, pressure and temperature of air masses).

10. Draw a map of the US and label it with air masses.

11. Describe the jet stream.

12. Describe why global winds don’t travel in a straight line on the planet.

13. Draw and label all global winds.

14. What happens to air pressure as you move away from earth in the atmosphere?

15. What moves in convection currents of air?

16. What is fuel for a hurricane?

17. Why does warm air rise?

18. Draw a hurricane and label the parts with pressure and wind speed.