1. What is the difference between weather and climate?

2. What is meteorology?

3. Why is it important for Earth to have an atmosphere? (list as many reasons as you can)

4. What role does the sun play in the weather on Earth?

5. Name at least two differences between hurricanes and tornadoes.

6. What causes wind?

7. What does density mean?

8. Compare the densities of cold and hot air.

9. Explain the differences in spacing of molecules in solids, liquids, and gases.

10. Explain the relationship between the temperature of a substance and the speed of its molecules.

11. Draw and describe a convection current.

12. Define weather front. What is the weather like there?
13. Describe the differences in air pressure at the top of a mountain vs. at sea level.

14. What is a watershed?

15. How do mountains affect climate and weather?

16. How are clouds formed?

17. What is the difference between evaporation and condensation?

18. Describe and/or draw a diagram of the water cycle. How is this different than a “water cycle web?”

19. What kind of weather is usually associated with high air pressure? With low air pressure?

20. What is meant by a current (like an ocean current)?

21. How do ocean currents affect air temperatures around the world?