Weather and Climate Study Guide

Weather:

1. What is the difference between weather and climate?
2. What gases make up the atmosphere and in what abundance?
3. What are the layers of the atmosphere and where in them does most of our weather occur?
4. How does the Sun heat our atmosphere (I’m looking for three ways and how each works)?
5. How do high pressure and low pressure systems move? What weather is associated with each?
6. Describe isobars.
7. Describe each of the types of fronts we learned about in class, draw the symbol for each, and explain what types of weather occurs at each.
8. What occurs during a thunderstorm? During a tornado? During a hurricane? During a typhoon?
9. How does a hurricane form?

Climate:

1. What are greenhouse gases? Give me specific examples.
2. Describe the greenhouse effect.
3. What do the majority of scientific studies show is causing the greenhouse effect to occur now?
4. Describe the impact that climate change is projected to have on biodiversity.
5. What is ocean acidification and what is this doing to aquatic biomes?
6. What are the major causes of an increase in sea level due to climate change?
7. What are urban heat islands? Give me some real examples of where they occur in North Carolina.