Climate Science and Weather Study Guide

On the test you will be expected to know the following:

* How water is circulated through land, ocean, and the atmosphere
* The differences of solids liquids and gasses and how their molecules are behaving
* How water changes state of matter
* The energy that drives the water cycle
* Land breezes and sea breezes
* How carbon dioxide effects temperatures
* The process that drives ocean and air currents

To review for the test please choose three of the below tasks and do them on the blank space of the paper below and on the back of the paper. Make sure you indicate which numbers you are choosing to answer. Feel free to answer all of them.

1. Describe the difference between weather and climate.
2. Draw the water cycle, include water in all 3 states of matter and describe how it changes from state to state. Describe the difference in the how the molecules behave in each state.
3. Describe how carbon dioxide effects temperature. What would global temperatures look like if there was an excess of carbon dioxide in the atmosphere? What about if there were very low levels of carbon dioxide?
4. Describe how land breezes and sea breezes are formed. Feel free to draw a model.
5. Describe the process the drives ocean and air currents.
6. How does the sun effect weather and climate?