

Science 1206
Review for Test
Weather Dynamics - Chapter 13

What to know:

1. Difference between weather and climate
2. Aspects of weather and instruments used to measure them (some information found in ch 14).
3. Difference between tropical, polar, and mid-latitude areas with regard to:
 - angle of sun's rays - location on the earth
4. Methods of heat transfer - convection, conduction, radiation
5. Heat capacity of water and air compared to solids. Relate this to atmosphere and oceans as good heat sinks.
6. Air pressure - high and low. Air moves from region of high to region of low pressure.
7. Structure of the atmosphere, especially the troposphere.
8. The major wind patterns on the earth - what causes them, direction of each convection cell, influence of the Coriolis effect. Also the jet streams - upper level high-speed west-east winds.
9. The water cycle and its importance in weather.
10. Formation of clouds - convective, orographic and frontal. Various kinds of clouds.
11. Ocean currents and their effects on weather.
12. The complex of factors that influence weather (see pages 536-37).

Test format:

20 multiple choice - Part A

4-5 short answer questions - Part B

Study all diagrams in the text !!!!