

Unit 9 Section 1 Study Guide

Directions: Answer the following questions.

Reviewing Objectives Part 1:

1. Describe how mountains, frontal wedging (including dry lines) convection, and convergence form clouds and precipitation. Pages: 581-90
2. Explain the process of adiabatic cooling and adiabatic temperature changes to the formation of clouds. Pages: 582-83

Reviewing Major Concepts Part 2: *Chapter 23 section 2, 3*

1. Describe the conditions that are necessary for clouds to form.
2. Explain the four processes of cooling that can lead to cloud formation.
3. Applying Ideas Explain why air expands when it rises.
4. Making Predictions How might an increase in pollution affect cloud formation?
5. Making Comparisons Which type of cloud has the lowest condensation level? Which type has the highest condensation level?
6. Identify four forms of precipitation.
7. Compare coalescence and supercooling.