



Acid Precipitation



Master
7c**Acid Precipitation****Reteaching Skills**

Use with Chapter 5, Section 5.1



1. Transparency 7a shows the first part of an experiment that tests the effect of acid precipitation on red spruce seedlings. The independent variable is the pH of the water. What are the controls shown in the transparency?

2. What are some other factors that would need to be controlled?

3. Study Transparency 7b. What observation can you make?

4. At what pH was the death rate of the seedlings 80%?

5. What could you do to gain more confidence in the experimental results?

6. Unpolluted precipitation has a typical pH. Based on the experimental results, infer a minimum for that pH. Explain your reasoning.

7. Does the experiment explain *how* acid precipitation causes the death of the seedlings? Explain your answer.

8. Based on the graph of data shown in transparency 7c, how many plants would you predict would die at the following pH levels: pH 6.0, pH 3.75, pH 2.0? Between what pH readings did the seedlings' death rate increase most rapidly?
