

INVESTIGATING SOILS AND DRAINAGE *(continued)*

◆ Critical Thinking and Applications

1. Why did water drain through the soils at different rates?

2. If you wanted to test other soils, what might you change in your experimental procedure?

3. Why do you think people put gravel on parking lots?

4. Think of what happens to rain that lands on a paved parking lot. What would be an advantage of paving a lot? What would be a disadvantage?

5. Suppose another sports field is being built. What kind of soil should be used for the best drainage? Give a reason for your answer.

◆ More to Explore

Drainage is only one of many considerations when building a sports field. Another concern is how well grass will grow on the field. Is the soil that drains the best able to support a healthy crop of grass? What soil would be best to use for a new field? On a separate sheet of paper, write a procedure to answer these questions. Have the teacher approve your procedure before you carry out your investigation. Be sure to wear safety goggles and a lab apron.