

**Warm-UP: INQUIRY SKILL FOCUS Assessment**

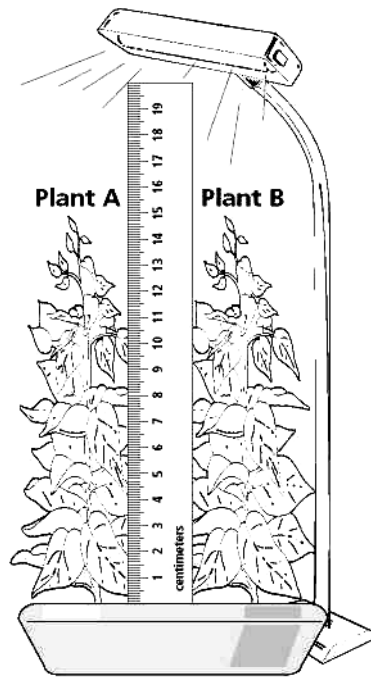
**Skills Test A: Basic Process Skills**

Questions 1–4: Read each statement. If the statement is an observation, write “O” on the line at the left. If the statement is an inference, write “I” on the line at the left.

- \_\_\_\_\_ 1. It must be cold outside, since most students are wearing coats.
- \_\_\_\_\_ 2. There are seven graduated cylinders on the teacher’s desk.
- \_\_\_\_\_ 3. Someone must have added salt to this salad.
- \_\_\_\_\_ 4. The pencil is 12 cm long.

Questions 5–8: Write the letter of the correct answer on the line at the left.

- \_\_\_\_\_ 5. Which of the following is a qualitative observation that can be made from the illustration at the right?
  - a. The plants are both taller than 12 cm.
  - b. The light is shining on the plants.
- \_\_\_\_\_ 6. Which of the following is a quantitative observation that can be made from the illustration?
  - a. There are two plants growing in the pot.
  - b. Plants need light to grow.
- \_\_\_\_\_ 7. Based on the illustration, which of the following is a reasonable inference?
  - a. Plants A and B are being given different brands of fertilizer.
  - b. Plants A and B are growing in the same kind of soil.
- \_\_\_\_\_ 8. Which of the following statements about inferences is *true*?
  - a. Inferences are information gathered using the senses.
  - b. Inferences are often based on past experiences.

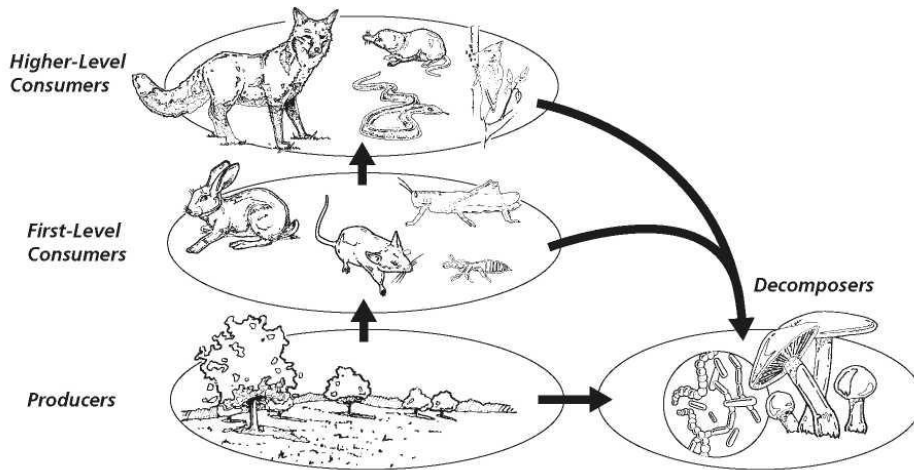


Questions 9–10: Write the letter of the correct answer on the line at the left.

- \_\_\_\_\_ 9. Which of the following is a prediction?
  - a. It will rain three or more days next month.
  - b. Three centimeters of rain fell last week.
- \_\_\_\_\_ 10. Which statement about classification systems is true?
  - a. Organizing ideas must always divide the objects into two groups.
  - b. Organizing ideas are based on similarities and differences among objects.

Questions 13–14: Examine the diagrams below. Then answer each question by writing the correct answer on the line at the left.

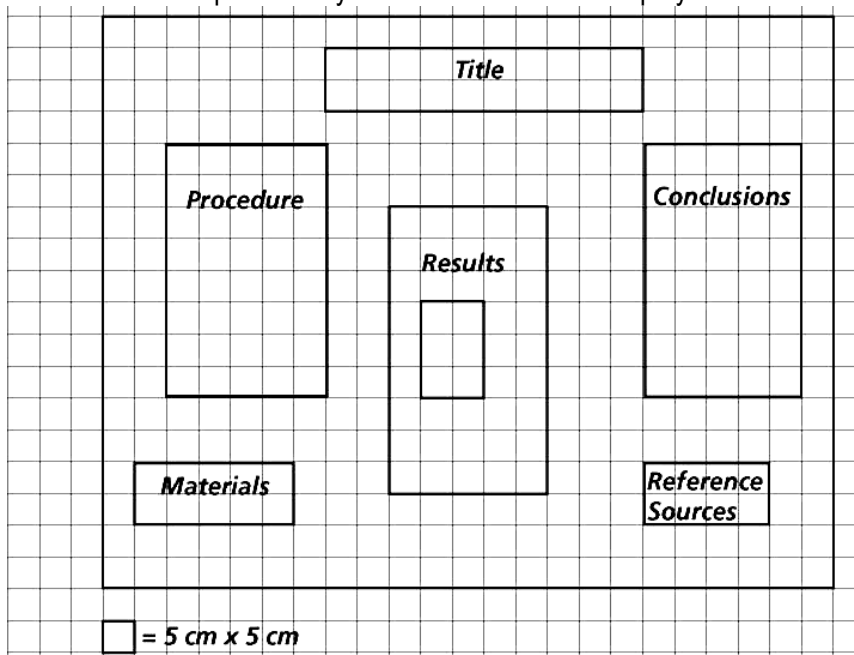
This diagram shows the way energy flows through an ecosystem. First, food is made by producers. Then, the producers are eaten by certain consumers called herbivores. The herbivores are eaten by other consumers called carnivores or omnivores. The waste materials from all these organisms are used for energy by decomposers.



\_\_\_\_\_ 13. This diagram is an example of a (mental/physical) model.

\_\_\_\_\_ 14. Is this diagram drawn to scale?

Questions 17–18: Use the diagram to answer each question in the space provided. Sara made this scale model to plan the layout of her science fair display.



17. What tells you that this is a scale model? \_\_\_\_\_

18. What will the height of the actual display be? \_\_\_\_\_