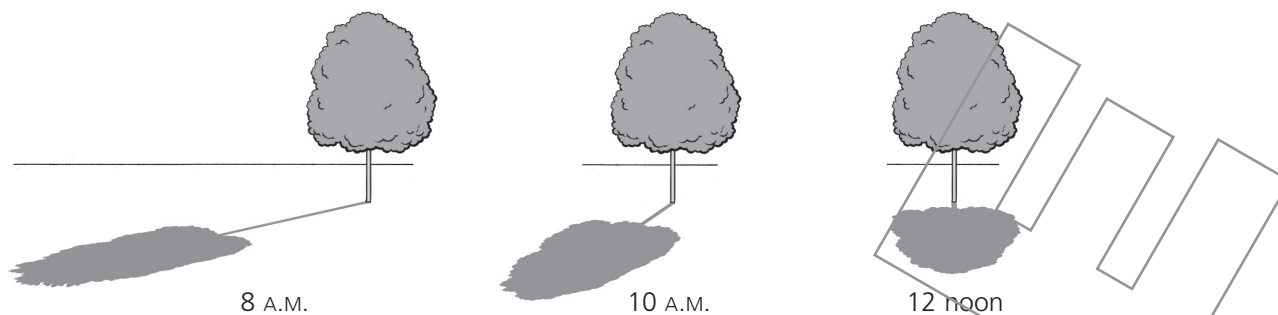
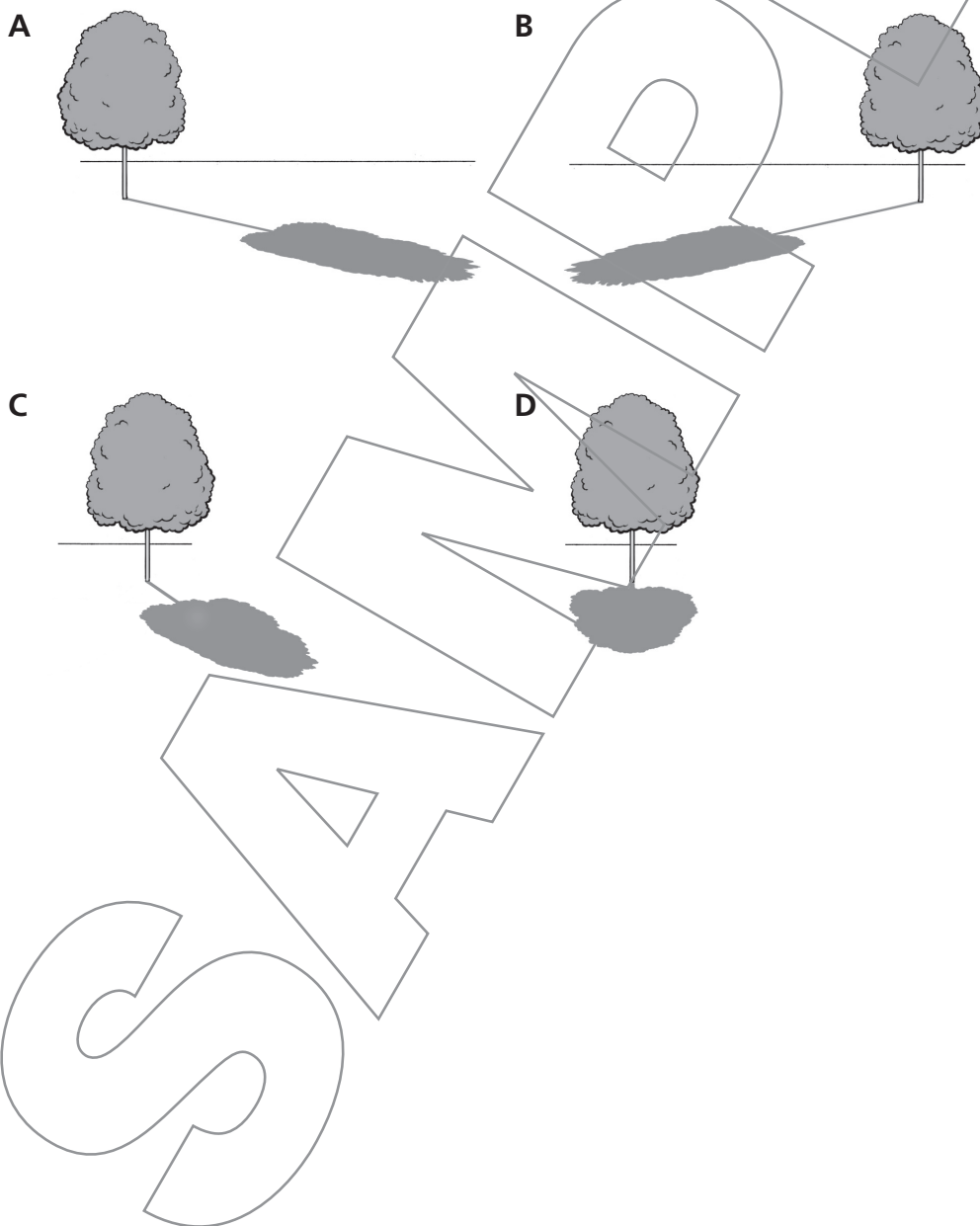


Use the drawings below to answer question 40.

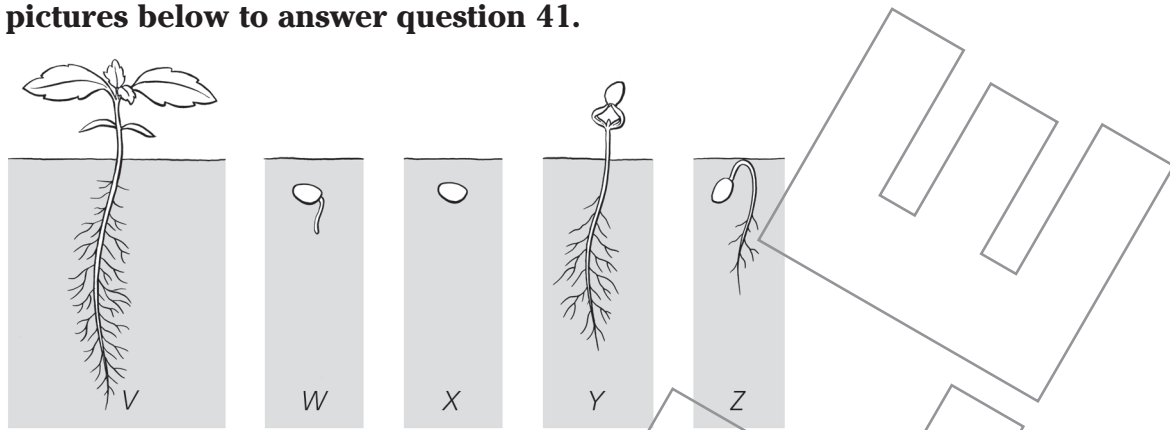


40 Students in a science class observed the position of a tree's shadow every two hours until lunchtime. Their teacher drew the observations in a notebook. Which picture shows the **best** prediction of the shadow's position at 4:00 P.M.?



This is a short open-ended (SOE) question. It is worth two points.

Use the pictures below to answer question 41.

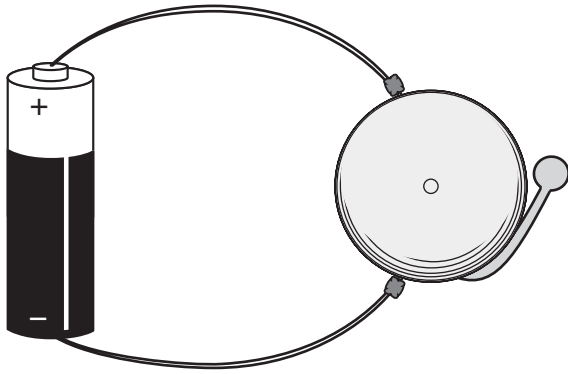


41 Some stages of a tomato plant life cycle are shown above.

Part A: Use the letters to list the stages in order from youngest to oldest.

Part B: Explain what happens to the life cycle when the tomato plant reproduces.

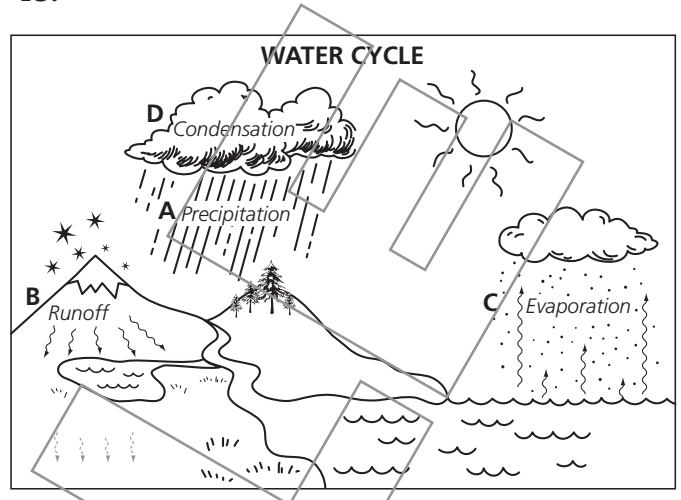
Use the diagram below to answer question 42.



42 Which statement correctly describes the flow of energy through the system?

- A Heat energy from the battery is converted to chemical and sound energy.
- B Chemical energy from the battery is converted to electrical and sound energy.
- C Electrical energy from the battery is converted to heat and light energy.
- D Light energy from the battery is converted to potential and chemical energy.

Use the diagram below to answer question 43.



43 Which part of the water cycle diagram represents water changing from a gas to a liquid?

- A A
- B B
- C C
- D D

44 Which characteristic will an apple tree and its offspring be **least likely** to share?

- A leaves that change color in the fall
- B leaves that are the same shape
- C leaves that have been damaged by insects
- D leaves that use sunlight to make food