

- 16** Two metal cans are identical, except that one has a shiny silver outer surface and the other has a dull black outer surface. They each have the same mass of hot water at the same temperature sealed inside them. They are both in a vacuum in the darkness of outer space.

How does the temperature of the water in each one change?

- A** The temperature of the water does **not** change.
- B** The water in the black can cools more slowly than that in the silver can.
- C** The water in the silver can cools more slowly than that in the black can.
- D** They both cool down at the same rate.