



# e-SMARTkids



## ANSWER KEY

## Travels of electricity

1. False. Electricity travels at the speed of light. You cannot move faster than electricity.
2. An aluminum ladder, a copper wire, and a metal bench conduct electricity. What these objects have in common is that they are made of metal.
3. Insulators are important for safety around electricity because they are materials that do not allow electricity to pass through them easily. Insulators keep electricity from leaving power lines and appliance power cords so it cannot shock you.
4. Plugging too many things into an outlet can overload it and cause a shock and fire hazard.
5. Answers will vary.
6. Illustrations will vary but should show a path that provides a complete, uninterrupted loop from the battery to the bulb and back to the battery.