

Name _____

What are Electrons, and How Do They Relate to Electricity?

Open-Ended Response Answer Key

1. Answers may vary but could include explanations of how electrons power devices like smartphones, computers, and lights.
2. Solar panels capture the sun's energy and use it to move electrons, generating electricity without producing greenhouse gas emissions.
3. Wind turbines convert kinetic energy from wind into mechanical energy, which then moves electrons to generate electricity.
4. Answers may vary but could include discussions of the absence of lighting, heating, transportation, and communication, highlighting the vital role of electrons in modern society.

