Name

Simplify The Science Answer Key

Sample Simplified Translation

When electricity moves through the thin wire inside a light bulb, the wire gets very hot and glows, making light. This means electricity changes into heat and light energy. Old-style bulbs waste energy because they lose a lot of heat. New LED bulbs are better because they make light without getting hot, using a special material called a semiconductor.

Teacher's Guide

• Skill

Students practice translating technical explanations into plain language, improving comprehension of scientific vocabulary and concept precision.

• Differentiation Tips:

- For younger or emerging readers, pre-teach key terms like filament, resistance, and semiconductor using visuals or analogies.
- For advanced learners, ask students to rewrite the passage for different audiences (e.g., a 3rd grader vs. a science magazine).

Engagement Ideas:

- Use a real light bulb or LED to demonstrate the difference visually before students begin writing.
- Create a "Tech Translator" competition-students vote for the clearest, simplest rewrite while keeping accuracy.

• Extension Activities:

- Have students choose another short technical paragraph from a science or technology textbook and rewrite it in plain language.
- Ask them to create an illustrated diagram showing the energy conversion process in both types of bulbs.

