



## ***The Shocking Story of Electricity***

**1** Look at the title. How has the author played with words in this title?

*Common Core State Standards (Reading: Informational text): RI.4.5*

**2** On page 11, what do the symbols on the girl's hair tell you?

*Common Core State Standards (Reading: Informational text): RI.4.7*

**3** On page 15, what does the author think about Franklin's experiment?

*Common Core State Standards (Reading: Informational text): RI.4.2*

**4** What can you see when electricity arcs between two points?

*Common Core State Standards (Reading: Informational text): RI.4.1*

**5** "Michael Faraday made a simple device that could transform electricity into motion" (page 22). Think of another word for "motion" that you could use in this sentence.

*Common Core State Standards (Reading: Informational text): RI.4.4*

**6** Look at page 24. Do power plants create energy?

*Common Core State Standards (Reading: Informational text): RI.4.1*

**7** Which sentence on page 28 tells you what Edison said about AC (alternating current)?

*Common Core State Standards (Reading: Informational text): RI.4.2*

**8** Look at page 34. What are two advantages of nuclear fission?

*Common Core State Standards (Reading: Informational text): RI.4.1*

**9** What form of renewable energy did Maria Telkes work on?

*Common Core State Standards (Reading: Informational text): RI.4.1*

**10** In hydrogen fuel cells, what process produces electricity and heat?

*Common Core State Standards (Reading: Informational text): RI.4.2*

## **Answers**

- 1** "Shocking" means both "surprising," and getting an electric shock from touching electricity.
- 2** the hair has a positive charge
- 3** that it was dangerous
- 4** a bright flash of light
- 5** movement (other answers possible)
- 6** No, they change energy from one form into another.
- 7** "Edison claimed AC current was dangerous and could kill people;" (exact quotation required)
- 8** it provides a lot of power; it provides cheap power.
- 9** solar energy
- 10** the process of turning hydrogen and oxygen into water