Engagement Worksheet: How Do Batteries Work?
Introduction to Redox Reactions

Task:
In this activity, you'll activate your background knowledge and curiosity about how batteries work. You'll think individually, talk with teammates, and write a short response. This activity prepares you to learn about **redox reactions**, the type of chemical reaction that powers batteries.

Set the Stage (2 minutes)

Your teacher will show you two items: a **AA battery** and a **smartphone**.

Prompt: What do these two items have in common?

Write your thoughts below:

Think (2 minutes)

Prompt: How do you think batteries produce electricity?

Use this sentence starter if needed:
I think batteries work by...

Write your response here:

Talk (3 minutes)

In pairs or groups of three, take turns sharing your answers with one another. Listen carefully and build on each other's ideas.

Use this space to jot down key ideas from your group discussion:

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Write (3 minutes)

Now write a short paragraph combining your own ideas and what you learned from your group.

Prompt: *What did you learn from others about how batteries might work?*

Write your paragraph here:

Transition

Get ready to explore how batteries really work!
Your teacher will introduce a special type of chemical reaction called a **redox reaction**—this is the key to how batteries generate electricity.