

To our teachers:

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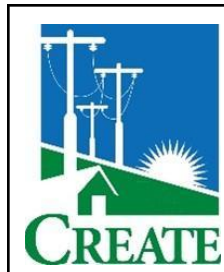
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**Wisconsin Public Service
SolarWise for Schools
and the
CREATE Energy Center**

BATTERY BASICS:

CHAPTER ZERO – INTRODUCING THE BATTERY

INSTRUCTOR ANSWER KEY

In completing the definitions that follow, you are welcome to use phrases you hear in the video. When you do this, put the phrases you lift from the video in “quotation marks.” Doing so clearly declares that your answer (or a part of it) comes from the video and is not plagiarized.

Use complete sentences in writing definitions for the following:

1. **Battery** (or Electrochemical Cell)

“A battery is a device that stores *chemical* energy and can convert it to usable *electricity* in the form of direct current.”

2. **Electricity**

“Electricity is the energy that results from the flow of electrons.”

3. **Oxidation Reaction**

Oxidation involves the loss of electrons.

4. **Reduction Reaction**

Reduction involves the gain of electrons.

5. **Redox Reaction** (or Oxidation-Reduction Reaction)

A redox reaction is simply oxidation and reductions that happen together at the same time.

6. **Primary Battery** (or primary cell)

A primary battery is a “one-time use, or ‘single use,’ non-rechargeable battery.”

7. **Secondary Battery** (or secondary cell)

A secondary battery is a “reusable, or rechargeable battery.” is called a “secondary”

“In secondary batteries, the redox reactions are reversible. The original chemical conditions within the electrochemical cell can be restored by recharging it from an external source.”