

## Lesson Plan

### Water Power Wrap-Up

**Book:** *Energy from Water*

**Series:** Energy for the Future

**Level:** Navigator

### Objective

To help students identify the main ideas of a book about hydropower in order to write clear, concise summaries of each chapter.

### Supplies

- Several copies of the *Energy from Water* book
- Paper and pencils
- Water Power Wrap-Up worksheet (attached)

### Before the Activity

Print a Water Power Wrap-Up worksheet for each student.

### Activity

Assign the *Energy from Water* book to students to read on their own. Students should take notes as they read, identifying the main ideas of each chapter. After reading, students should use their notes to craft clear, concise summaries of each chapter. Students should write these summaries on the Water Power Wrap-Up worksheet. Each summary should be one to two sentences long.

### Evaluation

Collect the worksheets. Use the attached answer key to award students 2 points for each accurate summary, for up to 10 points total.

### Standards

This lesson may be used to address the Common Core State Standards' reading standards for informational text, grade 5 (RI 5.2), and the National Science Education Standards' Content Standards E and F, grades 5–8.

# Water Power Wrap-Up

## Chapter One: The Power of Water

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## Chapter Two: Waves and Water Wheels

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## Chapter Three: Electricity from Rivers

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## Chapter Four: The Wave of the Future

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## Chapter Five: Reservoirs of Renewable Power

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# Water Power Wrap-Up ANSWER KEY

## Chapter One: The Power of Water

The hydroelectric plants located above and below Niagara Falls produce enough electricity to light up millions of homes. These plants demonstrate the power of water as a clean and renewable energy source.

## Chapter Two: Waves and Water Wheels

People have been using water power since ancient times, creating water mills to grind grains into flour and water clocks to keep time. More recently, people have begun using hydroelectric plants to generate electricity.

## Chapter Three: Electricity from Rivers

Hydroelectric plants use the flowing water of rivers to turn turbines, spin generators, and produce electricity. While this hydropower is renewable and clean, some hydroelectric plants involve dams, which can harm fish, kill off plants, and flood huge amounts of land, taking the homes of people and animals.

## Chapter Four: The Wave of the Future

Ocean power has great potential as the supply of tides and waves is endless and the flowing of tides is predictable. However, harnessing ocean power is difficult and expensive, and scientists are still developing the technologies to make it a feasible source of electricity.

## Chapter Five: Reservoirs of Renewable Power

Water power has its challenges and disadvantages, but in covering 71 percent of Earth, water is an important source of clean, renewable energy. Through further research, scientists can address water power's challenges and make it a big part of Earth's energy future.