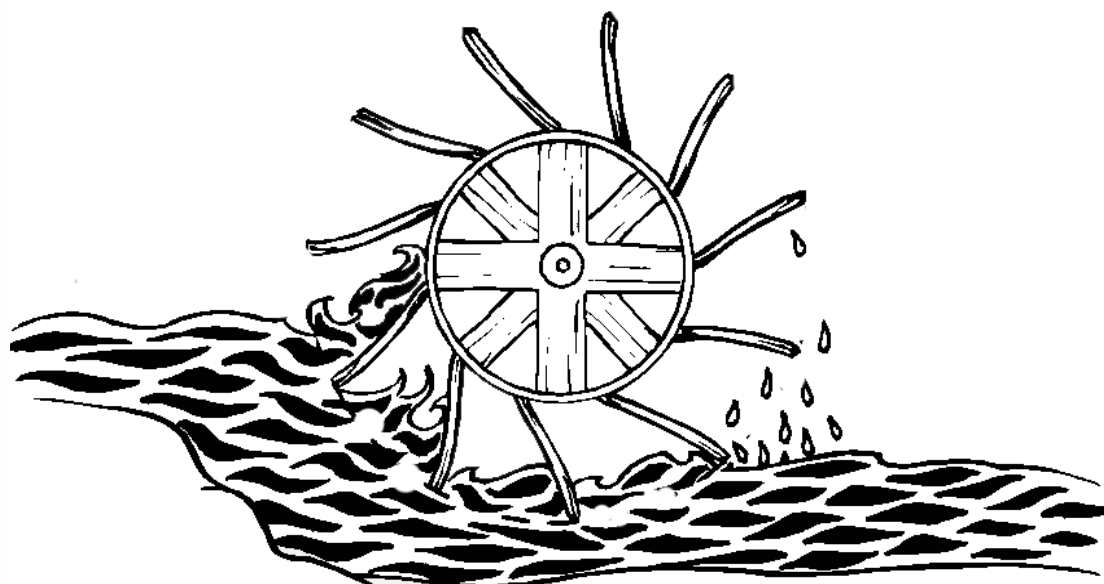




Grade Level  
Primary

# Water and Energy Science Notebook



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Name



WATER & ENERGY was developed by the NEED Project  
with funding and technical support from the  
National Hydropower Association and the Hydro Research Foundation.



Date \_\_\_\_\_

**Question:** How does your body use energy?

Date \_\_\_\_\_

## Potential or Kinetic?

Directions: Walk around your classroom and school. Look for things that have potential energy and kinetic energy. Draw a picture of the object in its potential energy state, and then in its kinetic energy state.

Potential Energy

Kinetic Energy


Date \_\_\_\_\_

# Investigating Solids

Question: What happens when you hold a solid?

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Date \_\_\_\_\_

# Investigating Solids

Question: What happens when you drop a solid?

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# Investigating Solids

**Question:** What happens when you put two or more solids together?

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Date \_\_\_\_\_

# Investigating Liquids

Question: What happens when you hold a liquid?

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# Investigating Liquids

**Question:** What happens when you drop a liquid?

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Date \_\_\_\_\_

# Investigating Liquids

**Question:** What happens when you put two or more liquids together?

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# Investigating Air

Question: What do you notice about air in a balloon that is not tied?

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Date \_\_\_\_\_

# Investigating Air

**Question:** What do you notice about air in a balloon that is tied?

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# Investigating Air

Question: How does a dropper work?

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Date \_\_\_\_\_

## Observing Ice

**Question:** What will happen if the ice cube is left on the table?

**Prediction:** I predict \_\_\_\_\_

because \_\_\_\_\_

### Data

Time: \_\_\_\_\_

Time: \_\_\_\_\_

Time: \_\_\_\_\_

Time: \_\_\_\_\_

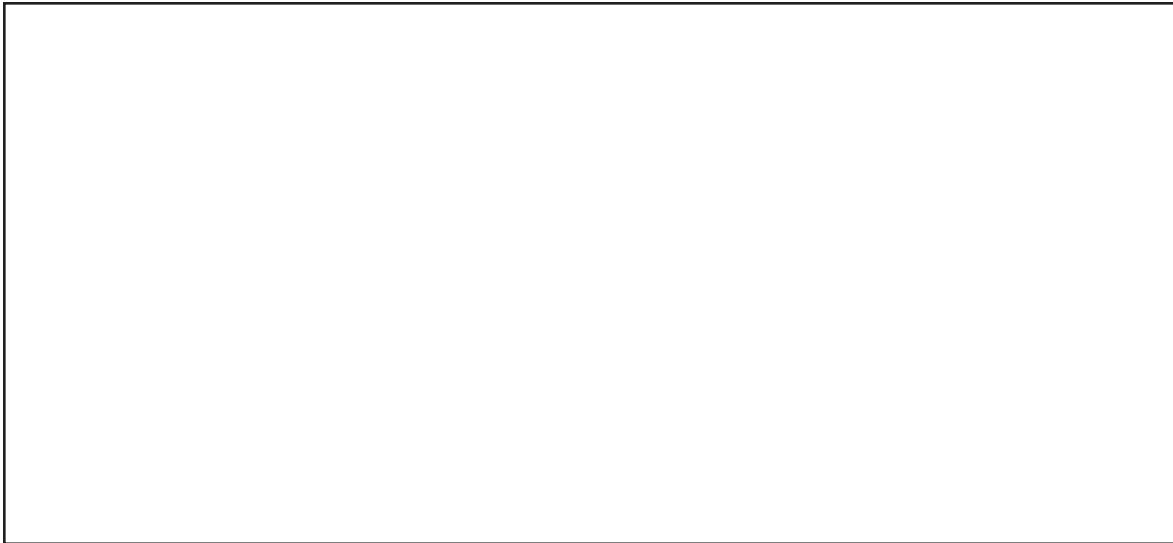
# Ice Cube Investigation

**Question:** How can I melt the ice cube the fastest?

**Prediction:** I predict \_\_\_\_\_

because \_\_\_\_\_

**Plan:** Draw a picture and/or use words to show how you will melt the ice cube.



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Date \_\_\_\_\_

**Observations:** Record your observations below. Use pictures and labels.

Time: _____	Time: _____
Time: _____	Time: _____



Date \_\_\_\_\_

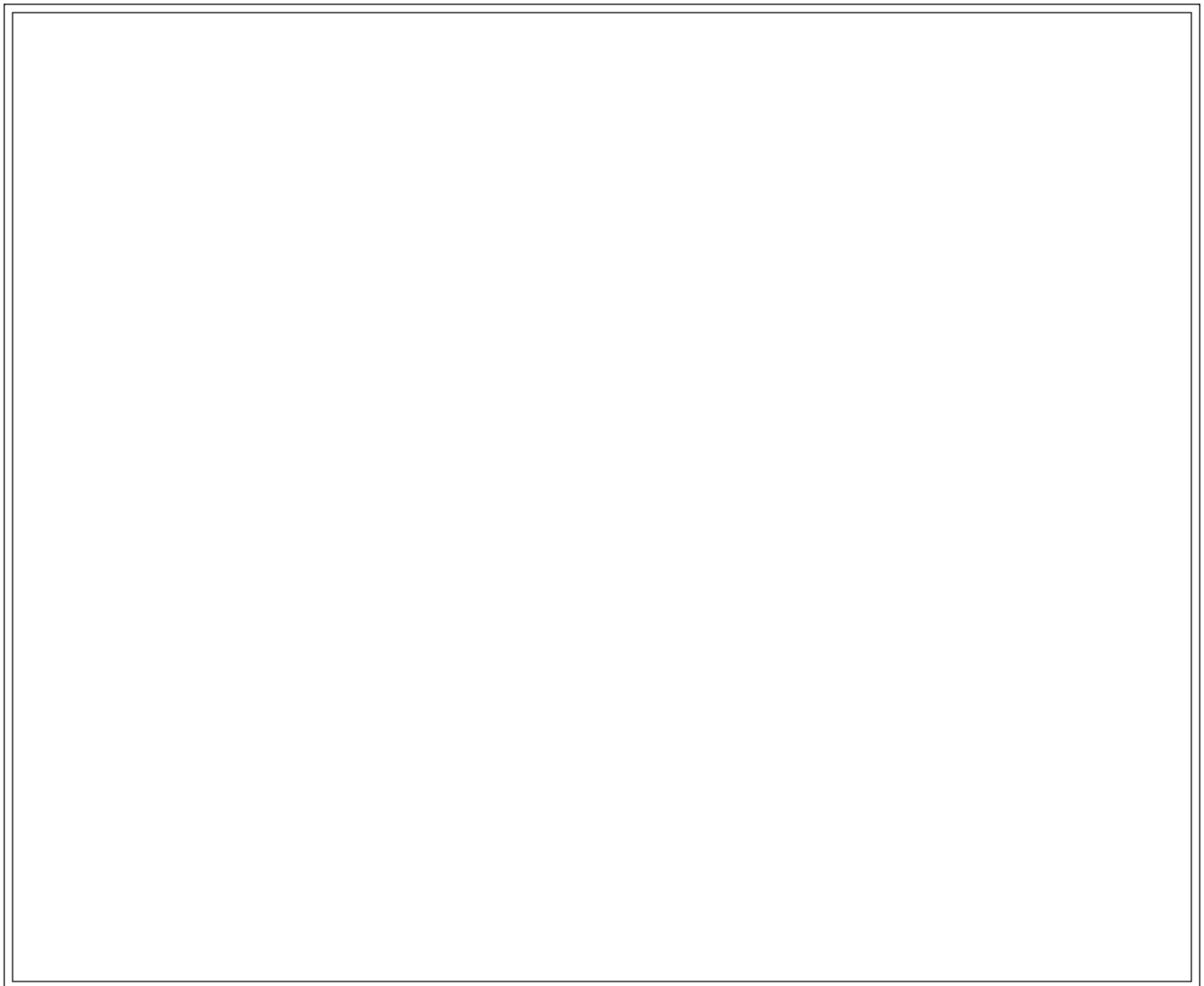
# Water is a Gas

**Question:** How does water change from a liquid to a gas?

Draw a picture of the model system showing how water turns into water vapor. Use the words below to label what happens.

## Word Bank

water    heat    water vapor  
liquid    evaporate    gas

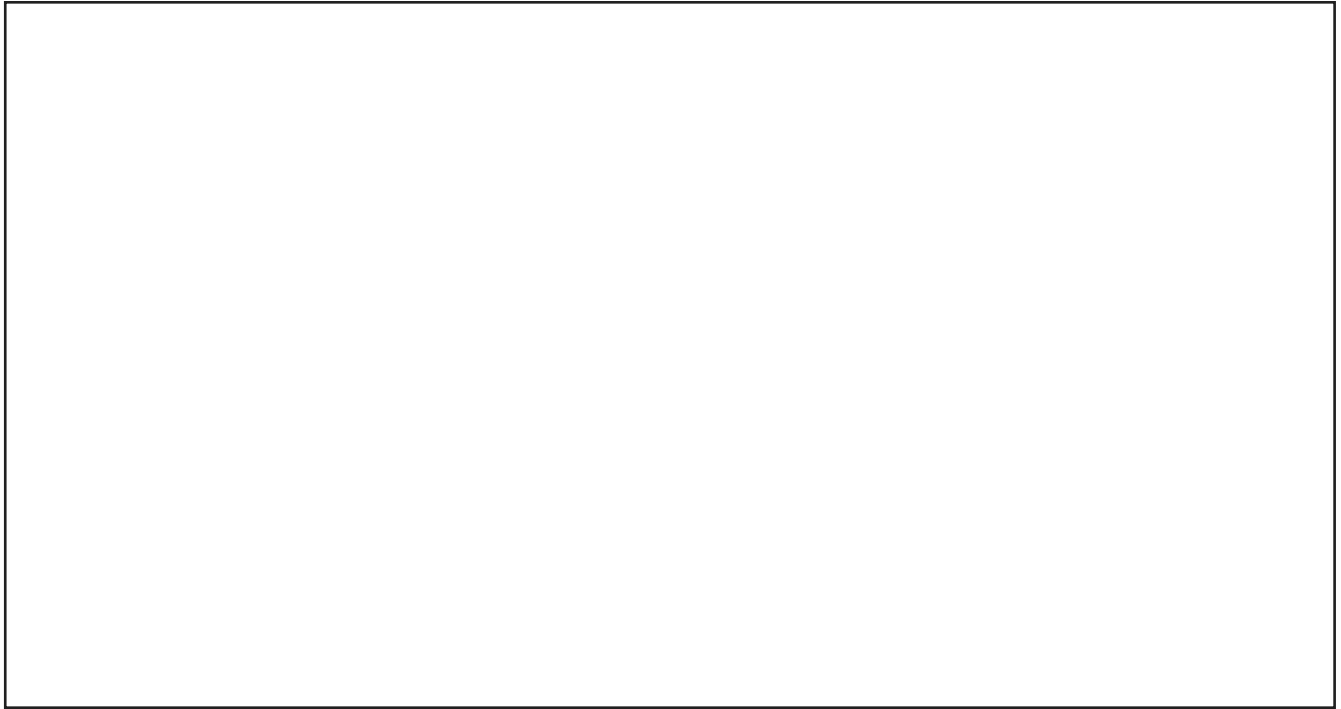




Date \_\_\_\_\_

## Waterwheel Investigation

Draw a diagram of your waterwheel system. Make sure you label all of the parts. Below, use words to explain what is happening.



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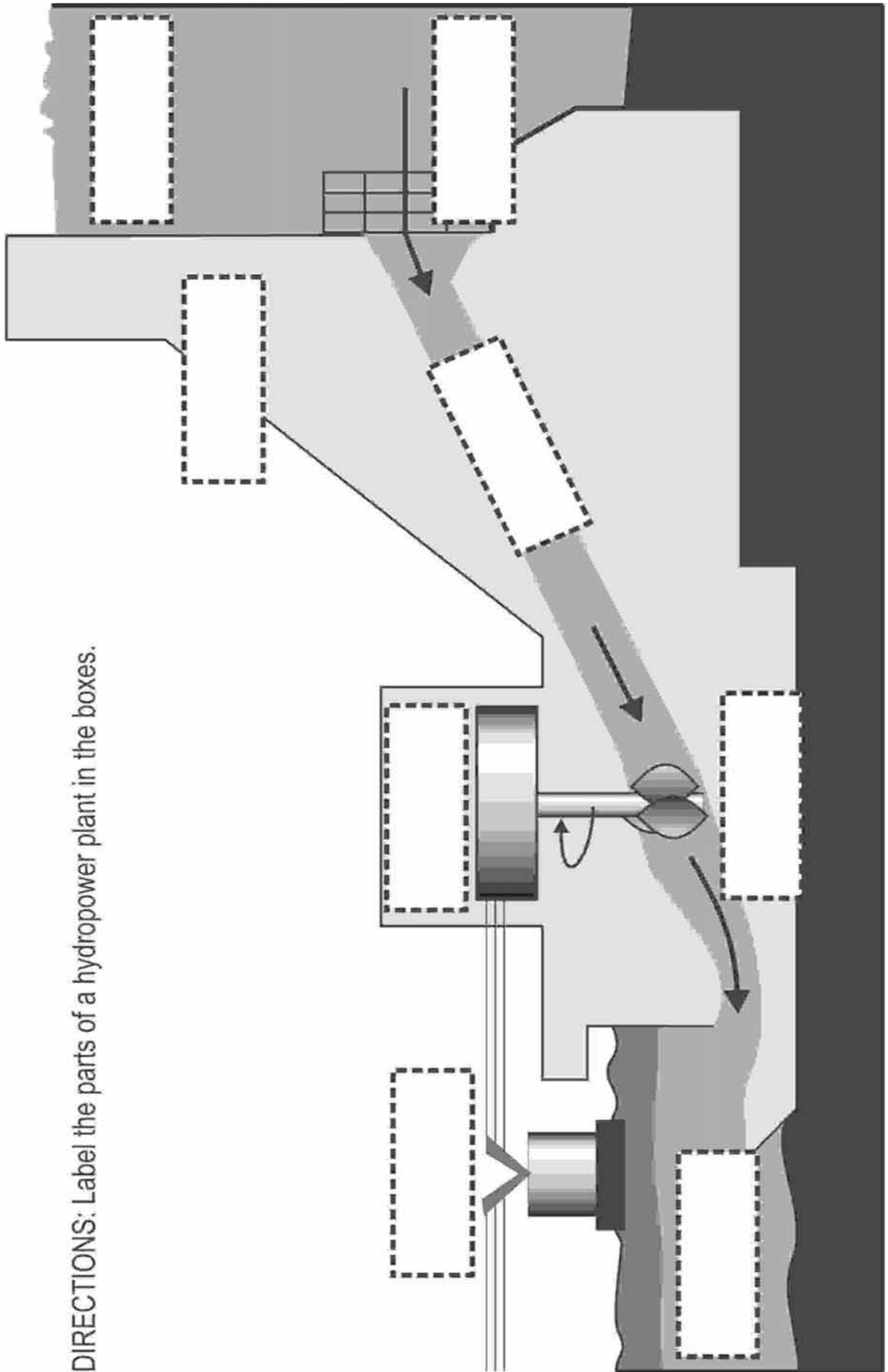
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# HYDROPOWER PLANT

DIRECTIONS: Label the parts of a hydropower plant in the boxes.



Date \_\_\_\_\_

## Final Reflection

What was the most important thing you learned about water?

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## What Are You Wondering About?

After learning something new, scientists often have even more questions that they still want to find the answers to.

- What questions about water do you still have?
- How can you find the answers to your questions?

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American Association of Blacks in Energy  
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