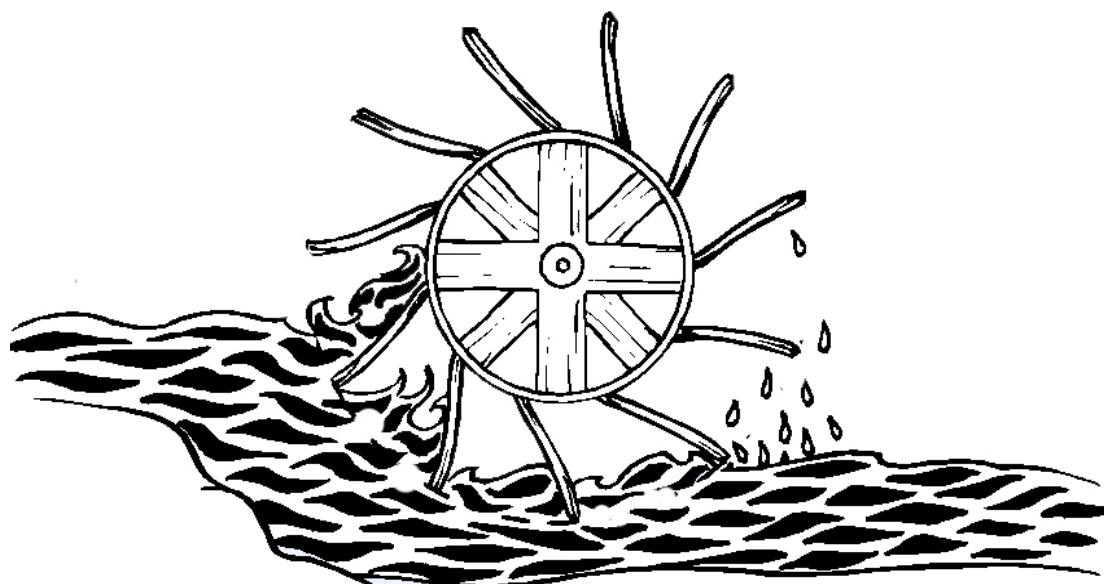




Grade Level
Primary

Water and Energy Science Notebook



Name

NEED

2009-2010

Putting Energy into Education

NEED Project PO Box 10101 Manassas, VA 20108 1-800-875-5029 www.NEED.org

***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

Investigating Solids

Question: What happens when you hold a solid?

Date _____

Investigating Solids

Question: What happens when you drop a solid?

Date _____

Investigating Liquids

Question: What happens when you hold a liquid?

Date _____

Investigating Liquids

Question: What happens when you drop a liquid?

Date _____

Investigating Liquids

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

Investigating Air

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

Date _____

Investigating Air

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

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: _____

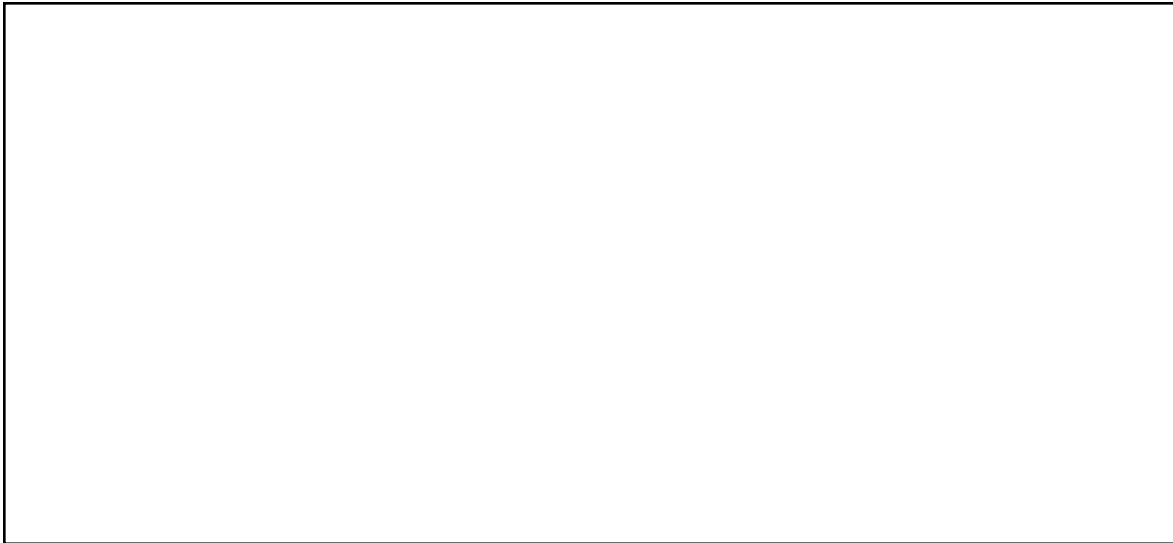
Ice Cube Investigation

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.



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

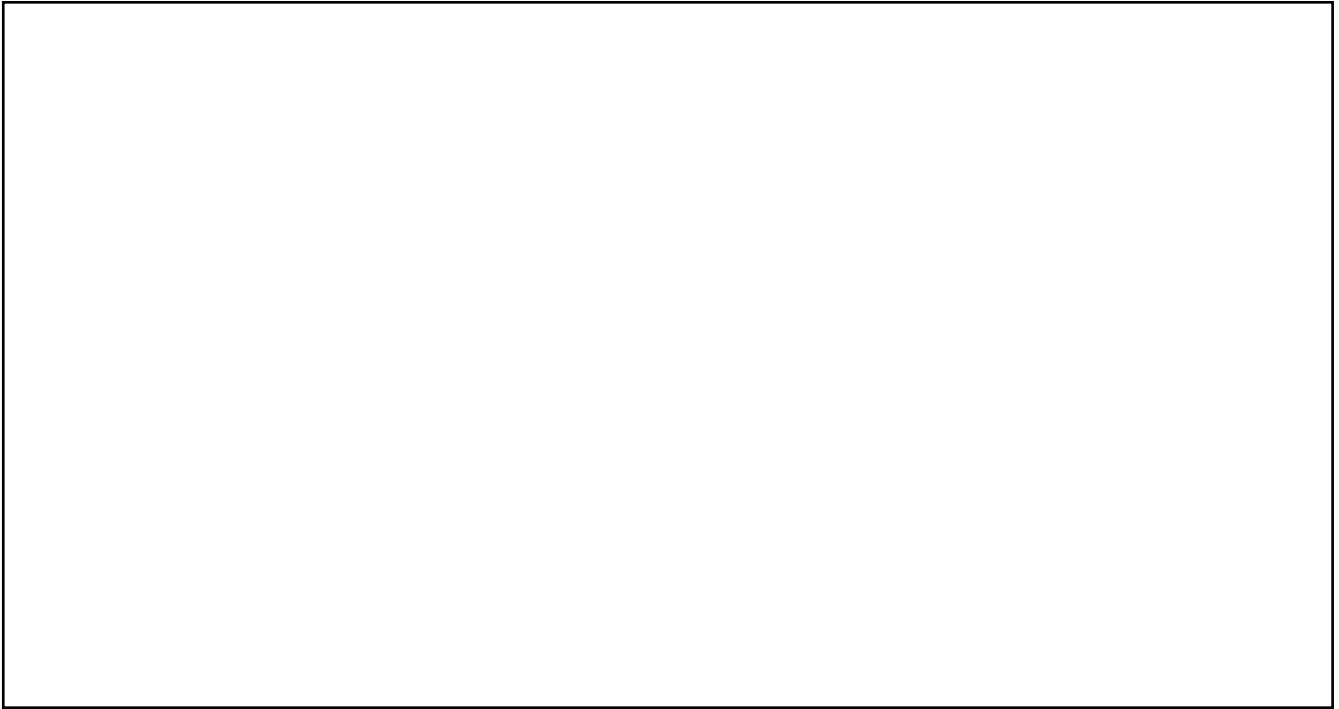
water heat water vapor
liquid evaporate gas



Date _____

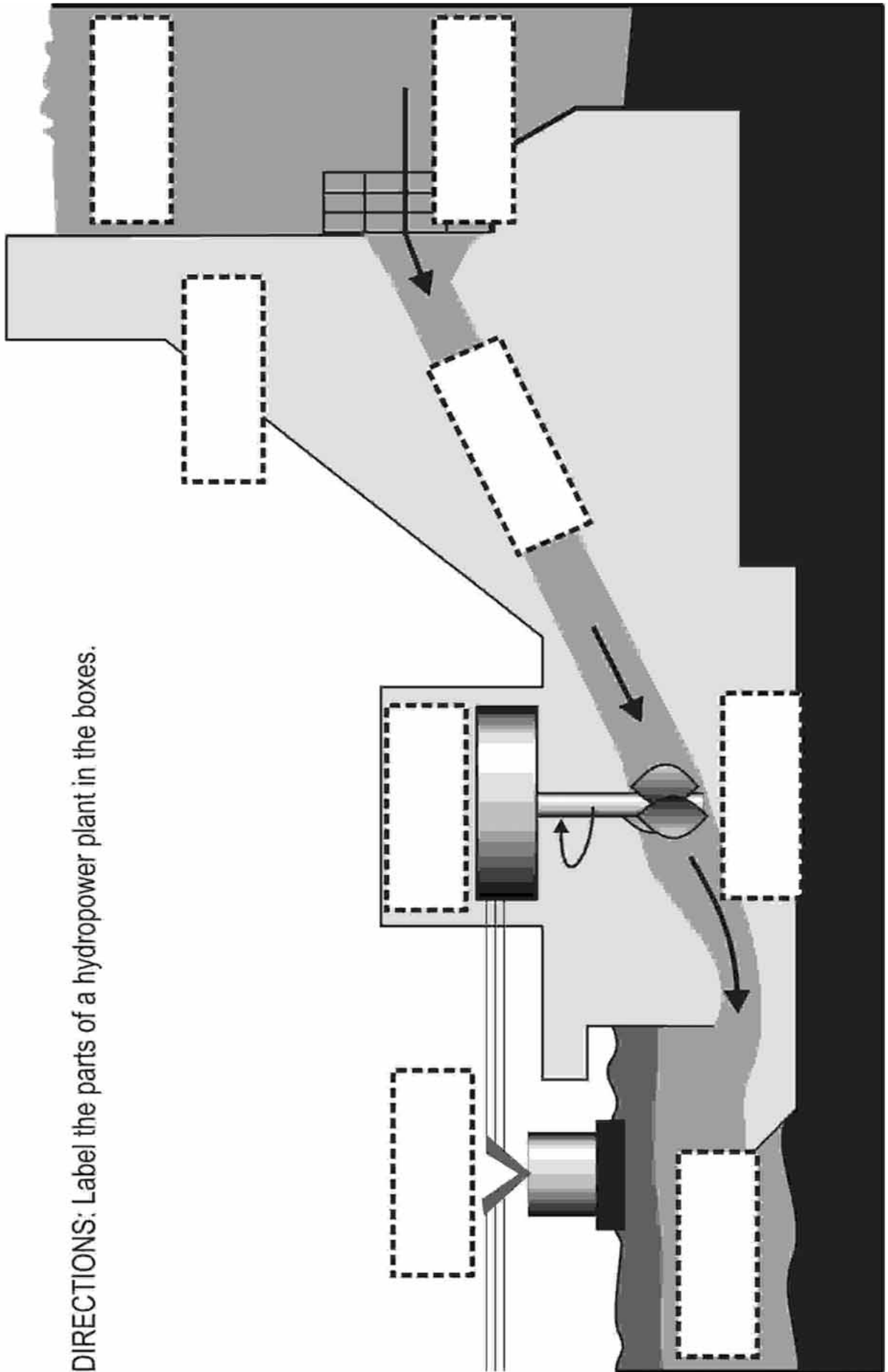
Waterwheel Investigation

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



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?

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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Mississippi Development Authority–
Energy Division
Montana Energy Education Council
Narragansett Electric – A National Grid
Company
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and Land Grant Colleges
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National Ocean Industries Association
National Renewable Energy Laboratory
Nebraska Public Power District
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New York Power Authority
New Mexico Oil Corporation
New Mexico Landman's Association
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Administration–State Energy Office
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PECO
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