

☐ **I can** apply scientific ideas to design, test, and refine a device that converts energy from one form to another. (4-PS3-4)

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Energy Lab 3: Planning the Investigation

Name _____

Date _____

Investigation question:

Write a question that can be investigated using scientific evidence.

Hypothesis

Write a hypothesis or prediction about what the outcome of your investigation will be. The hypothesis should be able to be tested and confirmed by collecting scientific evidence. For example, "I predict..."

I predict _____

Background Information

What relevant background information about energy or solar cells makes you think your hypothesis is correct? Write about what you already know about how solar cells power a water pump. What experiences have you had already that make you think your hypothesis is true?

Materials

List the materials you will need to do this experiment.

Diagram

Draw and label a diagram of how you will use the materials to do the experiment. Put a star next to any item that is a variable and will change during the experiment.

Plan

List the steps you will take to carry out the experiment. Be sure to include units for any measurements you will take.
