

Student Investigation Sheet

Energy in the Classroom

In this investigation, you will explore the classroom in search of objects that use or contain different forms of energy.

Objectives:

In this investigation, you will use descriptive words to record evidence that objects use or contain different forms of energy.

Materials:

Per group

- Classroom objects

Safety Concerns

Identify any safety equipment and concerns that need to be observed in this lab.

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Key Question

What is the question you want to answer?

	<p><i>Directions:</i> Write the question for the investigation. The question should be specific and investigable.</p>
	<p><u><i>Key Components</i></u></p> <ul style="list-style-type: none">• Specific (one general thought, does not combine two or more questions)• Is able to be investigated

Plan

How will you investigate the question?	
	<i>Directions:</i> Describe the plan that you will use to study your question.
	<u><i>Key Components</i></u> <ul style="list-style-type: none">• Plan is easily repeatable by others• Plan describes the use of materials• Plan is in a logical order

Data

What evidence was gathered during the investigation?	
	<i>Directions:</i> Construct a table that lists the object, how it uses energy, and how it contains energy.
	<u><i>Key Components</i></u> <ul style="list-style-type: none">• Data (from an investigation and/or other sources, such as observations, reading material, archived data, etc.)• Appropriate (data applies directly to the question)• Sufficient (uses enough data to completely answer the question and determine a finding)

Conclusion

What did you learn from this investigation?	
	<p><i>Directions:</i> Develop a conclusion for your investigation. The conclusion should contain clear thoughts and proper vocabulary. This section focuses on the answer to your question. The evidence should help you answer your question.</p>
	<p><u><i>Key Components</i></u></p> <ul style="list-style-type: none">• Use precise and accurate language• Use scientific vocabulary• Provide clear logical thoughts• Use evidence and reasoning to support your answer to the question.

Analysis and Conclusions

1. Were you surprised at the number of objects you found that contained or used energy? Why?

2. What were some forms of energy you observed?

3. How did constructing a table help you to understand forms of energy?