
LAB 21. CONVERTING ENERGY

Supplies

We have a few things around in the classroom and in the storeroom that you can use. You'll need to discuss your plans with each other and the instructor.

Problem

How can we introduce and reinforce the idea that energy converts between different forms?

Project

Your group will design and build a demonstration apparatus that a learner can operate. The apparatus will demonstrate conversion of energy from one form to another. Your demonstration consists of the following parts.

Equipment

This is the working part of the demonstration. It's the physical equipment that the user will manipulate.

Instructions

Tell the user what to do to make the equipment do what it needs to do.

Explanation

Explain to the user why the equipment responded the way it did, and how energy is conserved, just converted to a different form.

Getting Credit

To score the points for a particular category, your demonstration must meet all the listed criteria.

Category	Excellent	Good	Fair	Poor
Equipment	15 points	13 points	11 points	0–10 points
	Well-secured, not easy to break Neat appearance Works as intended Easy to observe the effect	Neat appearance Easy to observe the effect Works as intended	Easy to observe the effect Works as intended	Confusing
Instructions	5 points	4 points	3 points	0–2 points
	Clear Complete Easy to follow	Complete	Wordy or incomplete	Confusing
Explanation	10 points	8 points	6 points	0–5 points
	Understandable Correct Interesting	Understandable Correct	Correct	Confusing