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worksheet Energy Conversion

Overview

In this Exploration you will shoot balls toward a paddle wheel connected to an electric generator to observe the conversion of energy.

Questions

- 1. What is the relationship between the ball mass, launch force, and the brightness of the light?_____
- 2. Describe the transfer of energy beginning with the ball coming into contact with the paddle wheel.
- 3. A windmill converts mechanical energy into electrical energy. Where does the mechanical energy come from?______

How to Use This Exploration

- 1. Read the Introduction and click the Continue button.
- 2. Identify the Exploration components and read the text.
- 3. Select a ball mass and launch force and click on the Play button.
- 4. Watch the animation. Note the speed of the paddle wheel and brightness of the bulb.
- 5. Continue with all combinations, noting the transfer of energy that takes place.

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