

Lesson 4

Lesson Plan

Energy Transfer - Energy Transformation

Objective

- For students to know what is meant by energy transfers and energy transformations.
- To allow students to do experiments and describe what has happened in terms of energy transfers and energy transformations.

Body of the Lesson

Introduction

Discuss: Stepping from the shower onto the cold bathroom floor
Heat energy --> Heat energy
(foot) (tiles)

When you hit a golf ball with a golf club.
Kinetic energy --> Kinetic energy
(golf club) (golf ball)

These are examples of energy transfer

ENERGY TRANSFER When Energy is passed from one object to another without changing its form.

Light a match: Describe what has happened in terms of energy:

Chemical energy changes to: light energy
heat energy
sound energy

Connect a light bulb to a battery in a circuit. Describe in terms of energy:

Chemical energy changes to: electrical energy, which changes to: light energy
heat energy

These are examples of energy transformations.

ENERGY TRANSFORMATION: When energy is changed from one form to another.

Activity

- Explain workstations
- Distribute worksheets

Conclusion:

Which stations showed examples of energy transfer? Describe

Which stations showed examples of energy transformations? Describe

Set Homework.