



Energy: Forms and Transfer

Name: _____

Date: _____

Grade: Grade 4

Part A: Multiple Choice

Circle the best answer for each question.

1. A battery-powered toy car rolls across the floor. Which energy chain best describes what happens?

- A) Chemical to electrical to motion energy
- B) Light to sound to heat energy
- C) Sound to chemical to electrical energy
- D) Heat to light to chemical energy

2. When a hairdryer is turned on, what two forms of energy come out of it?

- A) Chemical and light
- B) Motion and heat
- C) Sound and chemical
- D) Light and chemical

3. A child stretches a rubber band and then lets it go to launch a small paper ball. Which transformation is happening when the band snaps back?

- A) Light energy to sound energy
- B) Heat energy to chemical energy
- C) Potential energy to kinetic energy
- D) Electrical energy to potential energy

4. A flashlight is turned on in a dark room. Which energy change happens first inside the flashlight?

- A) Light energy changes into electrical energy
- B) Chemical energy in the battery changes into electrical energy
- C) Sound energy changes into light energy
- D) Heat energy changes into chemical energy

Part B: Fill in the Blank

Write the correct answer on each line.

1. A windmill turns wind's motion energy into _____ energy that powers homes.
2. When a moving ball slows down because of friction, much of its kinetic energy is changed into _____ energy.
3. A solar panel changes _____ energy from the Sun into electrical energy.
4. A microwave oven uses electrical energy to make food gain _____ energy so it warms up.
5. Energy is never made or destroyed; it is only _____ from one form to another.

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