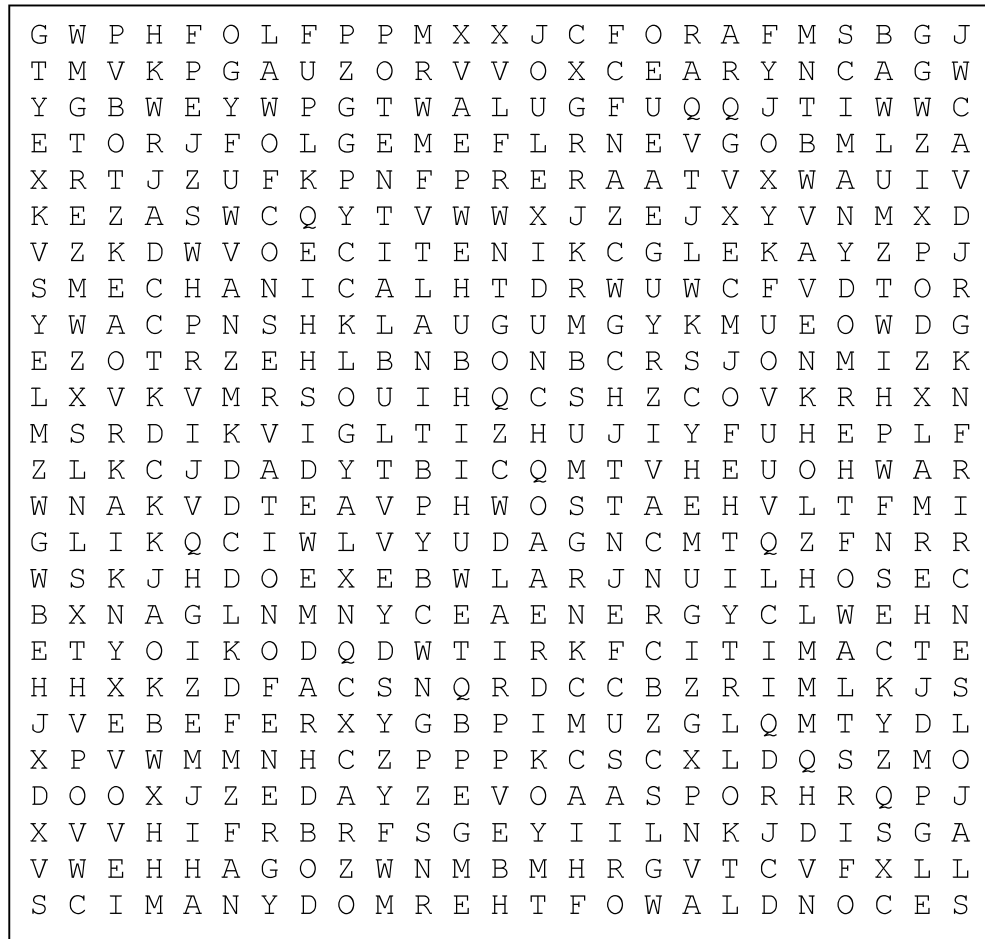


## Energy Word Search



- chemical
- elastic
- electrical
- energy
- first law of thermodynamics
- heat
- joule
- kilowatt hour
- kinetic
- law of conservation of energy
- mechanical
- nuclear
- potential
- power
- second law of thermodynamics
- thermal
- watt
- work

## “INTRODUCTION TO ENERGY” WORKSHEET

Name \_\_\_\_\_

Date \_\_\_\_ Day 1 \_\_\_\_

### Part 1. The two basic types of energy

Directions: Determine the best match between basic types of energy and the description provided. Put the correct letter in the blank.

- \_\_\_\_\_ 1. A skier at the top of the mountain (a) Kinetic Energy
- \_\_\_\_\_ 2. Gasoline in a storage tank (b) Potential Energy
- \_\_\_\_\_ 3. A race-car traveling at its maximum speed
- \_\_\_\_\_ 4. Water flowing from a waterfall before it hits the pond below
- \_\_\_\_\_ 5. A spring in a pinball machine before it is released
- \_\_\_\_\_ 6. A match burning

### Part 2. Potential Energy.

Directions: Underline the situation in each pair that has the greater amount of **potential energy**.

1. A stretched or unstretched spring?
2. A ticking or newly wound-up clock?
3. A new battery in an unlit flashlight or in one which is lit?
4. A roller coaster car at the top of a hill or at the bottom?
5. A match before it is lit or a match while it is burning?

### Part 3. Kinetic energy.

Directions: Underline the situation in each pair that has the greater amount of **kinetic energy**.

1. A pole vaulter before jumping or in mid-air at the top of his jump?
2. A bowling ball when your arm is all the way back or as it hits the pins?
3. A baseball bat just before it is swung or right after it is swung?
4. You before you get out of bed in the morning or you when you go to bed at night?
5. A match before it is lit or a match while it is burning?

### Part 4. Energy transfer

Directions: Write the prefix **exo** or **endo** on the space provided to describe the changes below.

- \_\_\_\_\_ 1. The melting of candle wax
- \_\_\_\_\_ 2. The burning of gasoline to produce carbon dioxide and water
- \_\_\_\_\_ 3. The condensation of water into a liquid
- \_\_\_\_\_ 4. Getting a suntan
- \_\_\_\_\_ 5. Metabolism
- \_\_\_\_\_ 6. Photosynthesis

7. In the margin of each situation above (part 4 only), place a “C” if the change was chemical and a “P” if the change was physical.