

2. Use choices from the key to identify the energy *form* in use in each of the following examples.

Key Choices

A. Chemical B. Electrical C. Mechanical D. Radiant

- C - Mechanical 1. Chewing food
B - Electrical
D - Radiant 2. Vision (two types, please—think!)
C - Mechanical 3. Bending your fingers to make a fist
A - Chemical 4. Breaking the bonds of ATP molecules to energize your muscle cells to make that fist
D - Radiant 5. Lying under a sunlamp

COMPOSITION OF MATTER

3. Complete the following table by inserting the missing words.

Particle	Location	Electrical charge	Mass
Proton	Nucleus	+1	1 amu
Neutron	Nucleus	0	1 amu
Electron	Orbitals	-1	0

4. Insert the *chemical symbol* (the chemist's shorthand) in the answer blank for each of the following elements.

- O 1. Oxygen I 4. Iodine Ca 7. Calcium Mg 10. Magnesium
C 2. Carbon H 5. Hydrogen Na 8. Sodium Cl 11. Chlorine
K 3. Potassium N 6. Nitrogen P 9. Phosphorus Fe 12. Iron

5. Using the key choices, select the correct responses to the following descriptive statements. Insert the appropriate answers in the answer blanks.

Key Choices

A. Atom C. Element E. Ion G. Molecule I. Protons
 B. Electrons D. Energy F. Matter H. Neutrons J. Valence

- E - Ion 1. An electrically charged atom or group of atoms
F - Matter 2. Anything that takes up space and has mass (weight)

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