

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)

# Anatomy And Physiology Marieb Answer Key 9

**M Tight**



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