

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 Chapter Basic Chemistry Packet Answer Key

SA Adler



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web these ions are called spectator ions because they do not participate in the actual reaction canceling the spectator ions gives the net ionic equation which shows only those species that participate in the chemical reaction $2\text{Ag}^+_{\text{aq}} + \text{Cr}_2\text{O}_7^{2-}_{\text{aq}} \rightarrow 2\text{Cr}_2\text{O}_7^{2-}_{\text{aq}} + 2\text{Ag}^+_{\text{aq}}$

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web the six NO_3^- ions and the six Na^+ ions that appear on both sides of the equation are spectator ions that can be canceled to give the net ionic equation $3\text{Ba}^{2+}_{\text{aq}} + 2\text{PO}_4^{3-}_{\text{aq}} \rightarrow \text{Ba}_3(\text{PO}_4)_2_{\text{s}}$

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web these spectator ions ions whose presence is required to maintain charge neutrality are neither chemically nor physically changed by the process and so they may be eliminated from the equation to yield a more succinct representation called a

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oxidation number or composition during a reaction products

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web jun 2 2023 the spectator ions are cut out from a reaction hence the net ionic equation for the above reaction would be $2\text{Cl}^- \text{aq} + \text{Cu}^{2+} \text{aq} + 2\text{Cl}^- \text{aq} + \text{Cu}^{2+} \text{aq} \rightarrow 2\text{Cl}^- \text{aq} + \text{Cu}^{2+} \text{aq} + 2\text{Cl}^- \text{aq} + \text{Cu}^{2+} \text{aq}$ these spectator ions are not actively involved in the reaction the existence of spectator ions affects the Debye length

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