Quiz 2A

1. What type of nut are you using in this experiment (2 points)? peanut
2. Are the following statements true or false (5 points)?
	1. Electromagnetic radiation normally travels in the form of waves. true
	2. The smallest particle of light is called a ~~quantum~~photon. false
	3. The number of electromagnetic waves that travel past a certain point in a given time is the ~~wavelength~~ frequency of the radiation. false
	4. The symbol for the ~~frequency~~ wavelength of electromagnetic radiation is λ (frequency is ν). false
	5. The shortest wavelength of visible light is violet light. true
3. A radio station broadcasts at a frequency of 99.0 MHz. What is the frequency in Hz (3 points)?

$$99.0 MHz×\frac{10^{6} Hz}{1 MHz}=9.90×10^{7} Hz$$

1. Write the name for each of the following (include the Roman numeral when necessary) (3 points):
	1. Sn4+ tin(IV) or stannic
	2. Al3+ aluminum
	3. Ag+ silver
2. Identify the following as an ionic compound, a covalent compound or an acid (5 points).
	1. NO2 (g) covalent compound
	2. Iron(II) bromide ionic compound
	3. WF6 (s) ionic compound
	4. Carbon tetrachloride covalent compound
	5. HI (aq) acid
3. Explain the octet rule (2 points).

Atoms lose, gain or share valence electrons to have 8 valance electrons.

Quiz 2B

1. Write the name for each of the following (include the Roman numeral when necessary) (3 points):
	1. Zn2+ zinc
	2. Na+ sodium
	3. Cu2+ copper(II) or cupric
2. What type of nut are you using in this experiment (2 points)? peanut
3. Explain the octet rule (2 points).

Atoms lose, gain or share valence electrons to have 8 valance electrons.

1. Are the following statements true or false (5 points)?

* 1. Electromagnetic radiation normally travels in the form of ~~sublevels~~ (waves). false
	2. The smallest particle of light is called a photon. true
	3. The number of electromagnetic waves that travel past a certain point in a given time is the frequency of the radiation. true
	4. The symbol for the wavelength of electromagnetic radiation is λ. true
	5. Ultraviolet radiation has ~~lower~~ (higher) energy than visible radiation. false
1. Identify the following as an ionic compound, a covalent compound or an acid (5 points).
	1. NO2 (g) covalent compound
	2. Iron(II) bromide ionic compound
	3. HF (aq) acid
	4. Potassium sulfide ionic compound
	5. Dinitrogen monoxide covalent compound
2. A radio station broadcasts at a frequency of 99.0 MHz. What is the frequency in Hz (3 points)?

$$99.0 MHz×\frac{10^{6} Hz}{1 MHz}=9.90×10^{7} Hz$$