Elements and Bonding

	Name
1.) Classify each of the following eleme	ents as an alkali metal, an alkaline-earth metal, transition metal,
metalloid, halogen, or noble gas base	ed on its position in the periodic table:
a.) boron	
b.) gold	
c.) krypton	
d.) calcium	
2.) How many valence electrons does ec	ach of the following elements have?
a.) carbon	b.) xenon
c.) selenium	d.) potassium
3.) Which of the following ions are like	ly to be formed?
a.) N*5	d.) Al ⁺²
b.)He ⁺¹	e.) P ⁻³
c.) F ⁻¹	f.) Mg ⁺²
4.)Explain why oxygen is a fairly react	ive element while neon is not.
5.)Explain why beryllium loses electron	ns when forming ionic bonds, while sulphur gains electrons.
6.)Explain why fluorine and chlorine ha	ave similar reactivities (the word "valence" should be somewhere in