Chapter 7, Worksheet 2 AP Chem, Periodic Properties of Elements		Name Period	
1. As a general rule, the size of atoms increases as you move to the (left/right) or (up/down) on the periodic table. What part of this generalization is counter-intuitive?			
2. Predict the atom in each of the following pairs with the larger radius.			
a) Be or Mg	b) C or N	c) Se or Cl	
d) Ba or Y	e) Mg or Sc	f) Te or I	
3. As a general rule, metals that are (farther from/closer to) the boundary between metals and nonmetals have more "metallic character", and nonmetals that are (farther from/closer to) the boundary have more "nonmetallic character".			
4. Predict the element with more metallic character.			
a) Cs or Sr	b) Al or Mg	c) Rb or K	d) Rb or Ba
5. Predict the element with more nonmetallic character.			
a) N or O	b) S or Se	c) As or F	d) B or Si
6. As a general rule, (metal/nonmetal) ions are larger than (metal/nonmetal) ions.			
7. As general rule, metal atoms are (larger/smaller) than their (+) ions, and nonmetal atoms are (larger/smaller) than their (-) ions.			
8. In general, the size of either positively charged or negatively charged ions increases as you move to the (left/right) or (up/down) on the periodic table.			
9. Predict the larger of each of these pairs of atoms or ions.			
a) Mg or $Mg^{+2}$	b) Br or Br	c) K or K <sup>+</sup> d) Na	a <sup>+</sup> or Mg <sup>+2</sup>
e) Na <sup>+</sup> or F <sup>-</sup>	f) $Sr^{+2}$ or $Ba^{+2}$	g) $Mg^{+2}$ or $Al^{+3}$	h) I or I
i) F or Cl	j) Al <sup>+3</sup> or P <sup>-3</sup>		
10. As a general rule, first ionization energy (the energy needed to remove the first			

10. As a general rule, first ionization energy (the energy needed to remove the first electron from a neutral gaseous atom) increases as you move to the (left/right) and (up/down) on the periodic table.