Periodic Table Trends 101 Video Review

1. List the trends in the periodic table we will be covering today.

- Number of _____
- Types of _____
- Location and properties of _____
- Phases _____

2. What are valence electrons? _____

3. How many valence electrons do the following elements have:

   Be =___ Cl =___ Al =_____ Si =_____ S =_____ K =_____ Ne = _____

   He =___ C =_____ F =_____ Ar =_____ Mg =___ H = _____

4. How do elements get a positive charge? _____

   _____ These elements are called _____

5. How do elements get a negative charge? _____

   _____ These elements are called _____

6. What type of ion do the following elements form in a chemical bond:

   Be =___ Cl =___ Al =_____ Si =_____ S =_____ K =_____ Ne = _____

   He =___ C =_____ F =_____ Ar =_____ Mg =___ H = _____

7. Why do elements in the 18th group have a charge of 0? _____

   _____

8. Most of the metals on the periodic table are located _____

   Most of the nonmetals on the periodic table are located _____

   except for_____. Metalloids are located _____

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	State at room temperature	Appearance	Conductivity – ability to conduct electricity	Malleability – able to be bent out of shape without overheating Ductility – can be drawn into thin wires
Metals				
Nonmetals				
Metalloids (Semi-conductors)				

9. Most metals are _____ at room temperature except for _____ which is a ____ at room temperature. Most nonmetals are _____ at room temperature except for _____ which is a _____ at room temperature. All metalloids are _____ at room temperature.

Check for Understanding – Use your notes and knowledge of Periodic Table trends to answer the following:

1. What are valence electrons?_____What do they help determine? _____
2. Give the number of valence electrons for the following elements:
Ca =_____O =_____Ar =_____C =_____Na =_____Al =_____P = _____
3. What trend do you see in ionic charges as you go from left to right on the periodic table? ____
_____
4. Elements that lose electrons have a_____charge, while elements that gain electrons have a_____charge.
5. What trend do you notice in metals, nonmetals, and metalloids as you move from left to right on the periodic table?_____Most elements are_____, while the fewest are_____.
6. Compare and contrast the properties of metals and nonmetals. _____
_____
7. What properties of metalloids often make them a mix between metals and nonmetals? _____
_____
8. Most metals tend to be_____at room temperature except for_____, while most nonmetals tend to be_____at room temperature except for_____.

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