



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 _____

	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
<u>Metals</u>				
<u>Nonmetals</u>				
<u>Metalloids</u> <u>(Semi-conductors)</u>				

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:

- What are valence electrons? _____ What do they help determine? _____
- Give the number of valence electrons for the following elements:
Ca = _____ O = _____ Ar = _____ C = _____ Na = _____ Al = _____ P = _____
- What trend do you see in ionic charges as you go from left to right on the periodic table? _____
- Elements that lose electrons have a _____ charge, while elements that gain electrons have a _____ charge.
- 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 _____.
- Compare and contrast the properties of metals and nonmetals. _____
- What properties of metalloids often make them a mix between metals and nonmetals? _____
- 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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