Name:		

The purpose of this activity is to become familiar with the elements and the periodic table.

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1.	The elements are arranged in order of increasing	
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- 2. Columns of elements belong to the same ______.
- 3. Rows of elements belong to the same ______.
- 4. The atomic number is equal to ______
- 6. The number of electrons = _____ in a neutral atom.
- 7. When dealing with the first three rows of the periodic table:

The maximum number of electrons in the first orbital is _____

The maximum number of electrons in the second orbital is _____

The maximum number of electrons in the third orbital is _____

8. Electrons in the outermost orbit are called _______ electrons.

B. Valence Electrons

Complete the following abbreviated periodic table for the elements as shown in the example. (The number in the top left corner of each box refers to the element's atomic number).

1			Example:		_2e-		← Vale	nce electrons		2
			Represent	ation	_8e-	_	← seco	nd energy leve	el	
	of the number		2e-	_	← first	energy level				
			of e-'s In each en Ievel	ergy	12p+		← # pro	otons in nucleu	ıs	
					Mg Ato	om	←atom	symbol		
3	4		5	6		7		8	9	10
11	12		13	14		15		16	17	18

1.	What is the relationship between the family number and the number of valence electrons?

2. What is the relationship between the period number and	the number of orbital shells in which they are located?
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