

Name: \_\_\_\_\_

**HW2:9 Metals, Nonmetals, Valence Electrons**

**Assigned: Fri., 9/29 and Mon., 10/2**

Period: \_\_\_\_\_

**Mr. Murray, IPC  
science.fearthepenguin.net**

**Due: Tues., 10/3 and Wed., 10/4**

1. Metals or non-metals?

- |              |               |
|--------------|---------------|
| ___ Iron     | ___ Cesium    |
| ___ Chlorine | ___ Silver    |
| ___ Neon     | ___ Mercury   |
| ___ Hydrogen | ___ Magnesium |

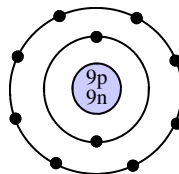
2. Give the valence electrons for the following:

- |              |              |
|--------------|--------------|
| ___ Sodium   | ___ Helium   |
| ___ Fluorine | ___ Aluminum |
| ___ Neon     | ___ Nitrogen |
| ___ Hydrogen | ___ Oxygen   |

3. For each of the following elements, give another element with similar reactivity (Chemical symbol is OK).

- |                    |                 |
|--------------------|-----------------|
| Beryllium: _____   | Oxygen: _____   |
| Phosphorous: _____ | Aluminum: _____ |
| Iodine: _____      | Argon: _____    |
| Potassium: _____   | Silicon: _____  |

4.



- Element: \_\_\_\_\_  
# of neutrons: \_\_\_\_\_  
Mass #: \_\_\_\_\_  
Valence Electrons: \_\_\_\_\_  
What is its charge? \_\_\_\_\_

10. If the object is 22 grams, find its density.

5. How many full electron levels does Sulfur have?

6. Are these elements isotopes of each other?

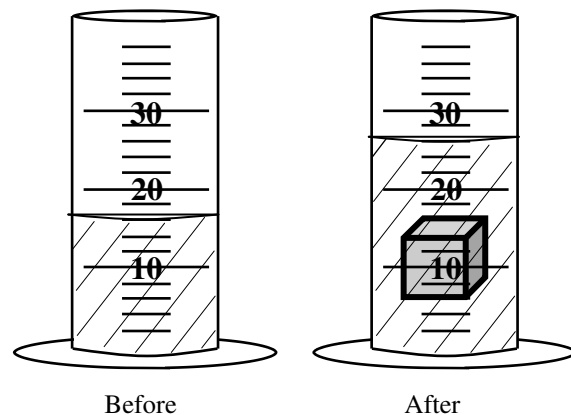
- A. 15 protons; 18 electrons; 16 neutrons  
B. 16 protons; 17 electrons; 16 neutrons

7. Are these elements isotopes of each other?

- A. 16 protons; 18 electrons; 16 neutrons  
B. 16 protons; 17 electrons; 17 neutrons

*Some review:*

8. You can bend a substance and it comes back to its original position. It is very \_\_\_\_\_.
9. Something not easily scratched is very \_\_\_\_\_.



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