

Biology

Name: _____

Review questions from modeling activity

Date: _____ Hour: _____

1. Looking at your data from yesterday's activity, what color were each of the following elements?

Oxygen: _____

Hydrogen: _____

Sodium: _____

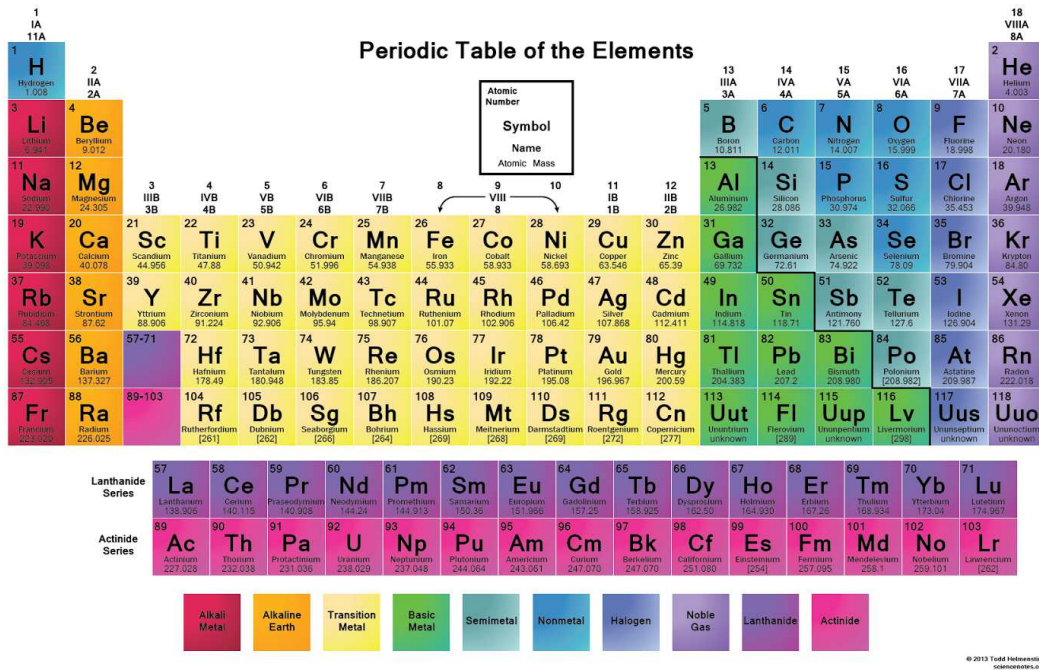
Chlorine: _____

Carbon: _____

Magnesium: _____

Nitrogen: _____

Use the periodic table below to answer the following question:



(from How to Use a Periodic Table www.sciencenotes.org)

2. Elements on the left side of the dark line are called metals. Elements on the right side of the line are called nonmetals. Knowing this, what type of element combination name each of the compounds in the lab?

Example: Li_2S : metal + nonmetal

H_2O : _____ NaCl : _____

MgCl_2 : _____ CH_4 : _____

CO_2 : _____ NH_3 : _____

3. Using your answers from #2 and your notes on the type of bond formed, what can you say about the type of elements that make an ionic or covalent bond?

4. Use your answers from the above questions and the periodic table to predict the type of bond formed between the following elements:

a) Calcium and iodine: _____

b) phosphorus and oxygen: _____

c) potassium and nitrogen: _____

d) carbon and chlorine: _____

e) lithium and sulfur: _____