

Name \_\_\_\_\_ Date Due \_\_\_\_\_

## Homework 1 – Elements, compounds and electron arrangements

1. What elements are contained in the following compounds?

**Sodium chloride:** \_\_\_\_\_

\_\_\_\_\_

**Potassium nitride:** \_\_\_\_\_

\_\_\_\_\_

**Potassium nitrate:** \_\_\_\_\_

\_\_\_\_\_

**Copper carbonate:** \_\_\_\_\_

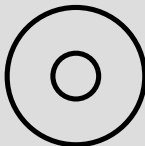
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**Magnesium sulphate:** \_\_\_\_\_

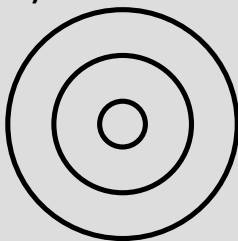
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2. What is the difference between an element and a compound?

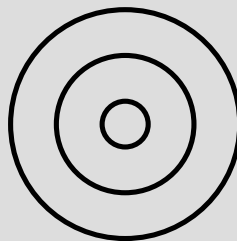
**3. Complete the diagrams below showing electron arrangements (E.A).**



Beryllium  
E.A 2,7



Sodium  
E.A 2,8,1



Chlorine  
E.A 2,8,7

**4. How many protons, neutrons and electrons are in  $^{12}_6\text{C}$**

**5. Why is the relative atomic mass of chlorine 35.5 amu and not 35 amu or 37 amu?**