

Worksheet 12: ChemQuest 29  
Objective 11**ChemQuest 29**

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**Introduction Questions**

1. Write the equation for the reaction of sodium and chlorine (diatomic) to form sodium chloride.
2. Write the equation for the reaction of calcium nitride and sodium chloride to produce calcium chloride and sodium nitride.

**Information:** Subscripts and Coefficients

A subscript is a small number that tells you how many atoms are in a compound. For example, in  $\text{CaCl}_2$  the two is the subscript and it tells us that there are two chloride ions bonded to one calcium.

A coefficient tells us how many atoms or compounds there are, but in a different way. For example in the expression "3  $\text{H}_2\text{O}$ " the three is the coefficient. The three tells us that there are three molecules of water present. In the expression "3  $\text{H}_2\text{O}$ " there are a total of 6 hydrogen atoms and 3 oxygen atoms.

**Critical Thinking Questions**

3. Verify that in  $4\text{Ca}_3(\text{PO}_4)_2$  there are 32 oxygen atoms present.
4. How many oxygen atoms are in each of the following:  
\_\_\_\_\_ a)  $\text{Al}_2\text{O}_3$     \_\_\_\_\_ b) 3  $\text{Na}_2\text{O}$     \_\_\_\_\_ c) 4  $\text{Na}_2\text{SO}_4$     \_\_\_\_\_ d) 5  $\text{Mg}(\text{NO}_3)_2$

**Information:** How To Balance Equations

Consider the reaction of sodium and chlorine to produce sodium chloride from question one:



Remember that when chlorine is by itself it is always written as  $\text{Cl}_2$ . On the reactant side of the reaction (left side) there are a total of two atoms of chlorine, but on the product side there is only one atom of chlorine.

Atoms cannot simply disappear. In order for the equation to make sense, we need to balance the equation. This can be done, first, by adding a "2" to the product side:



Now the equation reads that one atom of Na reacts with one molecule of  $\text{Cl}_2$  to produce two units of NaCl.

However, now the Na atoms are not balanced because there is one atom of the reactant side, but two atoms of Na on the product side. This can be fixed by adding another two:



Let us consider another example, the equation you wrote in question two above:



# Chemquest 29 Answer Key

**L Reisser**

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