Cookie Chemistry Notes

* Ingredients in a recipe are the same as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in a chemical reaction or equation
* Underline or circle the **reactants** in the recipe below.

2 eggs + 2 cups flour + ½ cup sugar + ½ cup chocolate chips + 1 TSP butter → 20 chocolate chip cookies

* Underline or circle the **reactants** in the chemical equation below.

CH₄ + 2O₂ → 2H₂O + CO₂

* Underline or circle the **products** in the recipe below.

2 eggs + 2 cups flour + ½ cup sugar + ½ cup chocolate chips + 1 TSP butter → 20 chocolate chip cookies

* Underline or circle the **products** in the chemical equation below.

CH₄ + 2O₂ → 2H₂O + CO₂

* Coefficients tell you the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* How many CH₄ are there in the following chemical equation?

CH₄ + 2O₂ → 2H₂O + CO₂

* How many H₂O are there in the following chemical equation?

CH₄ + 2O₂ → 2H₂O + CO₂

* A ratio shows the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between two items.
* What is the ratio of sugar to butter in the following recipe?

2 eggs + 2 cups flour + ½ cup sugar + ½ cup chocolate chips + 1 TSP butter → 20 chocolate chip cookies

* Write your answers to the presentation in the table below

|  |  |
| --- | --- |
| Ingredient/Item | Amount |
| Eggs |  |
| Flour |  |
| Sugar |  |
| Chocolate chips |  |
| Butter |  |
| Chocolate chip cookies |  |