



# GENETIC CHANGE: COOKING

How can a change in a recipe (or gene) change the final product?

## Recipe 1

**DNA Alphabet**

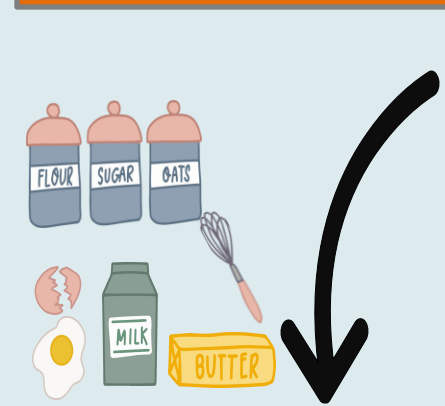
Letters to write out the recipes.

ATG  
GCA  
GGC

**Chocolate**

**Gene = Recipe**

Following the recipe, we will use chocolate.



**Chocolate Cake**

Following this recipe that used chocolate, we baked a chocolate cake.



## Recipe 2

**DNA Alphabet**

Letters to write out the recipes.

ATG  
GCG  
GGC

**Cheese**

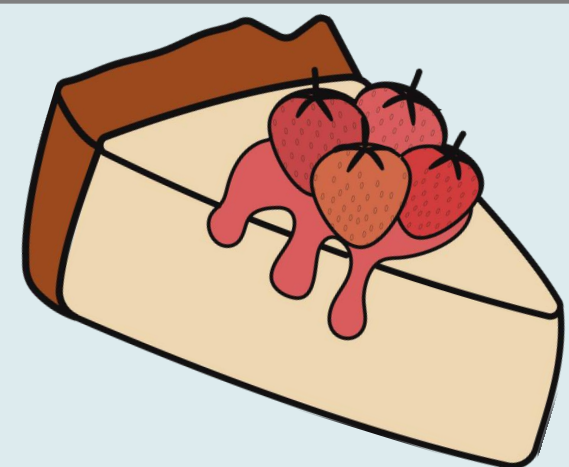
**Gene = Recipe**

The "chocolate" in the recipe has been changed to cheese.



**Cheesecake**

Following this recipe that used cheese, we baked a cheesecake.



The change in the recipe from chocolate to cheese changed the cake that was baked. Just like in our genes, a change in the genetic spelling of our DNA can lead our body to build a different product. There are many examples of genetic changes that cause people to have minor differences like the two cakes in this example. Genetic changes are what make people have different colored eyes, hair, and so much more!