

Last name: _____	First name: _____	Date: _____	Period: _____
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Genetics

Question 1

What is “genetics”?

Definition: **Genetics** is the study of **genes** and heredity.

It studies how living organisms, including people, inherit traits from their parents.

Instructions: Use the above statement to Complete the missing information

_____ is the study of _____ and _____.

It studies how _____, including people, _____ from their _____.

Question 2

What are genes?

Genes are the **basic unit** of **heredity**.

This means that genes determine what traits are passed down from a mother and father to their child.

Eye color, height, and hair color are some examples of the traits that are controlled by genes.

Genes exist inside the cells that make up living things.

Instructions: Use the above statement to complete the missing information

_____ are the _____ of _____.

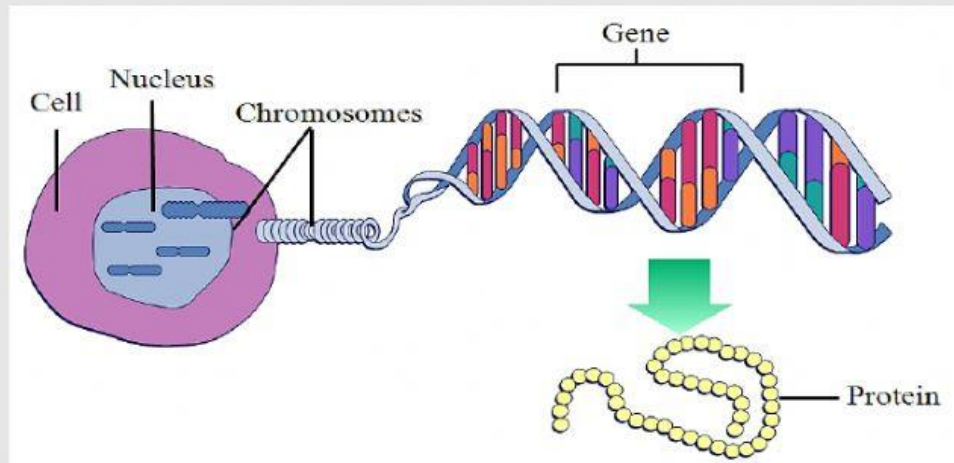
This means that genes _____ what _____ are passed down from a _____ and _____ to their _____.

Eye _____, _____, and hair color are some _____ of the _____ that are controlled by _____.

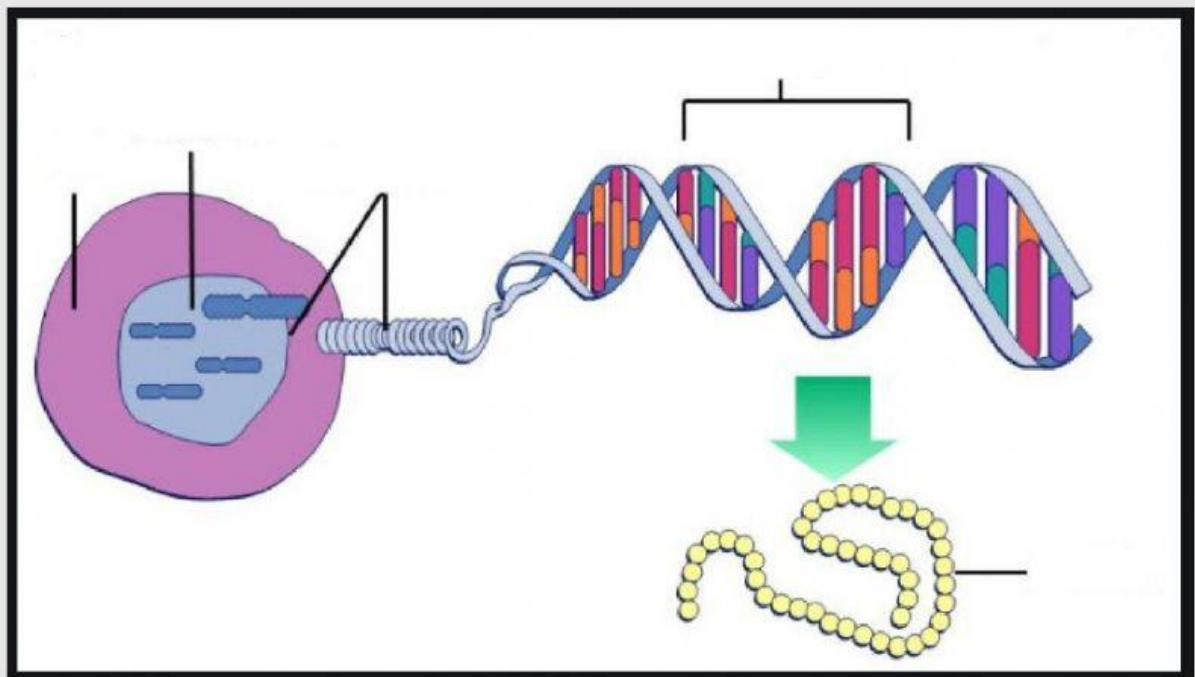
Genes exist _____ the _____ that make up living things

Question 3

Where are the genes located?

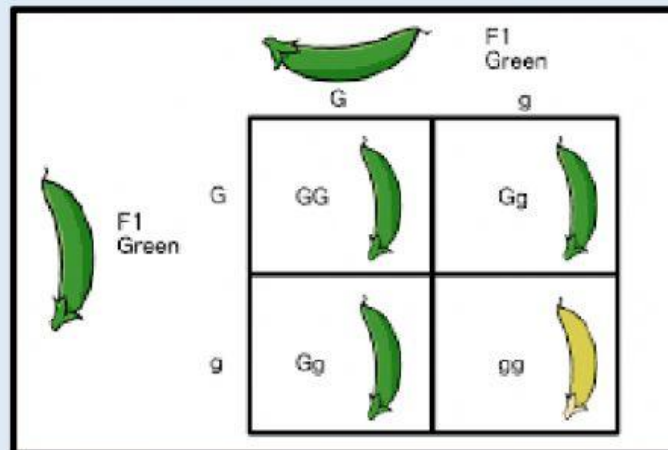


Instructions: Use the above diagram to label the diagram below



Question 4

Dominant and recessive genes



A Dominant Gene appears more often. (that is why you do not see too many yellow beans)

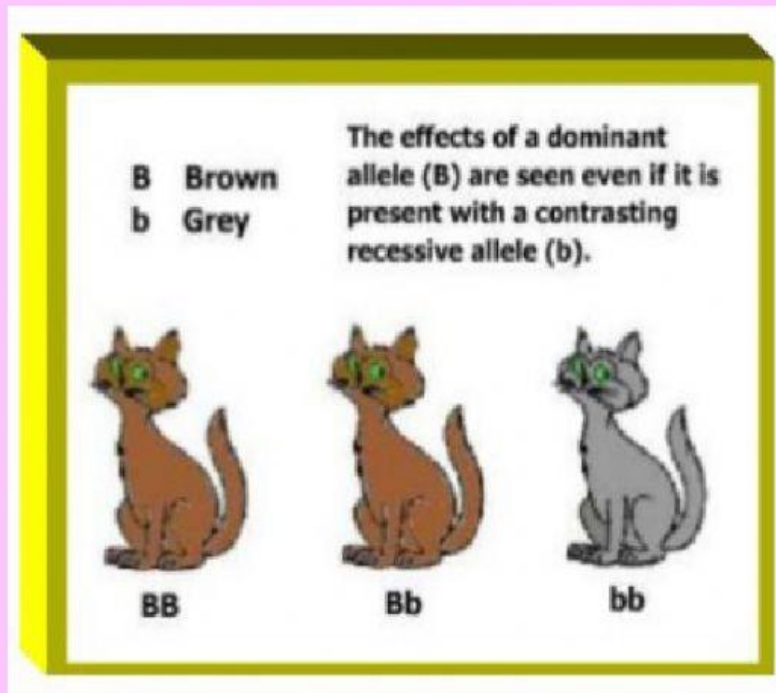
A Recessive Gene does not appear that often
(that is why you do not see too many yellow beans)

Instructions:

Which color has the Dominant Gene? _____

Which color has the Recessive Gene? _____

Question 5



Instructions: Look at the picture above

Write "Dominant" or "Recessive"

1. The "B" brown is the _____ gene

2. The "b" grey is the _____ gene