

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
_____.

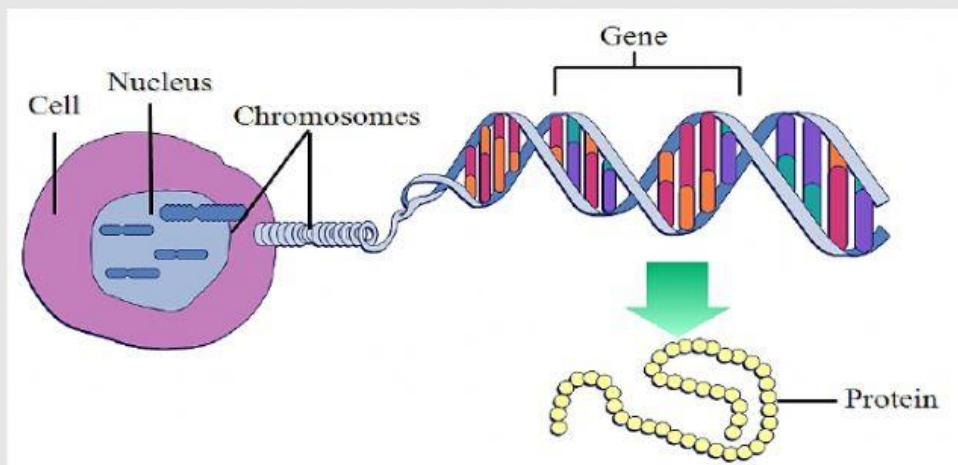
This means that genes _____ what
_____ are passed down from a _____ and
to their _____.

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

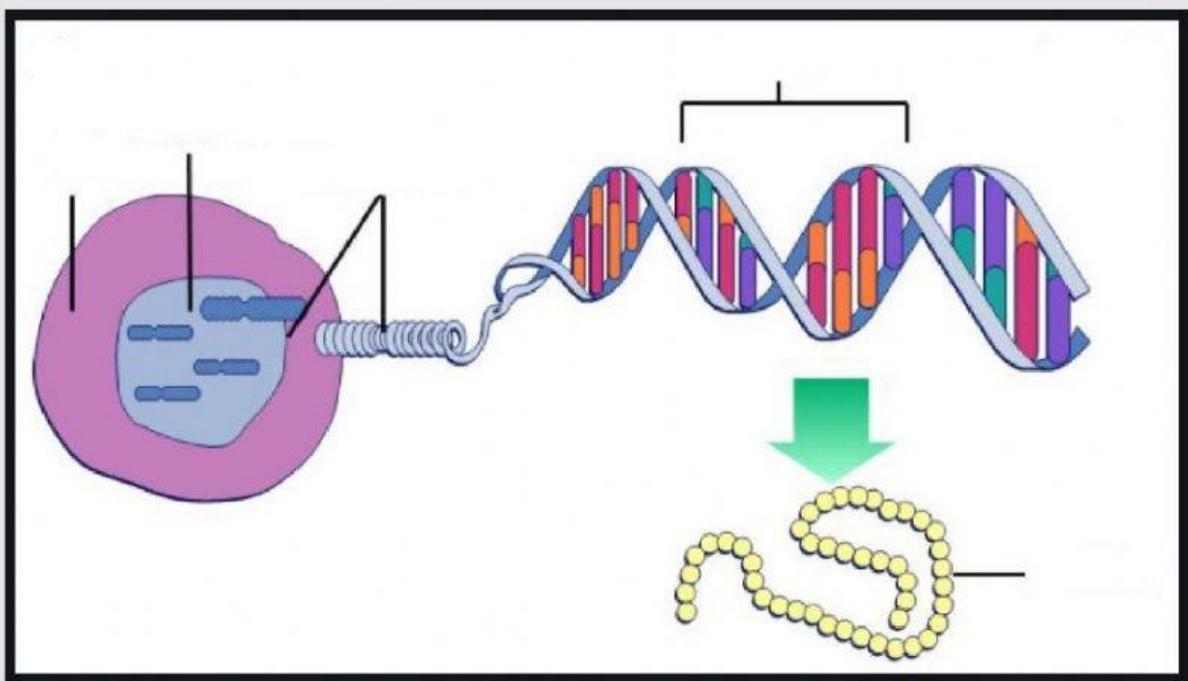
Genes exist _____ the _____ that make up living
things

Question 3

Where are the genes located?

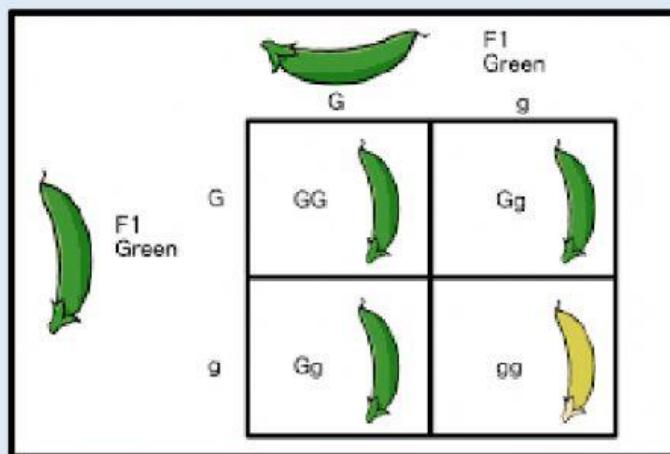


Instructions: Use the above diagram to label the diagram below



Question 4

Dominant and recessive genes



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

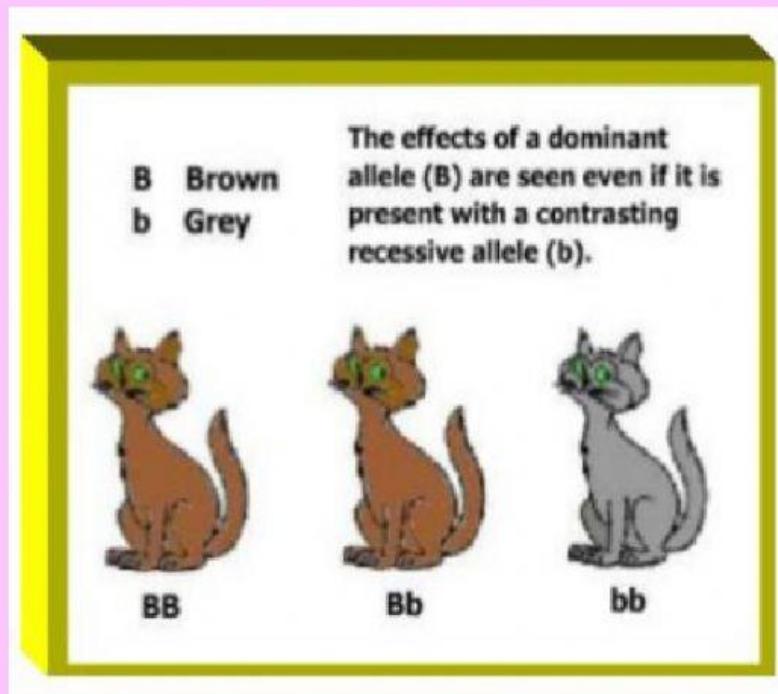
A Recessive Gene does not appear that often (that is why you do not see too many yellow beans)

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