

Name _____

Read "How do different types of genetic engineering vary?" Fill in the blanks as you go. You will need to open two windows. One with the reading and one in [Liveworksheets.com](https://www.liveworksheets.com). Then answer the questions about the reading in the worksheet.

1. The purposeful changing of the genes of an organism to change its characteristics is also known as _____.
2. _____ is the selective breeding of organisms by humans.

Read "It's a Dog's World" to answer the following.

3. Scientists believe that all dogs came from one ancestor known as the _____.
4. When people breed animals to choose some trait over others, we call it _____.
5. Why was the Husky bred? _____

Back to "How do different types of genetic engineering vary?"

6. A more modern form of genetic engineering is known as _____.

Watch "Transgenetic Plants".

List two reasons why plants are transgenetic. _____

Label each box with "GM" for gene modification or "AS" for artificial Selection.

A scientist alters the genes of an apple to prevent it from turning brown after it is cut.

A farmer picks a corn plant that has the sweetest corn and crosses it with a corn plant that makes many ears of corn to get a corn plant that makes _____ many ears of sweet corn.

A rose plant has a gene from a pansy flower that makes the rose blue.

A rice plant contains carotene genes from carrots so that rice is golden colored and has ingredients to make vitamin A.

A farmer picks a larger male and female chicken to mate in order to have larger chicken offspring.

A goat contains a gene for making spider silk in their milk.

A gardener crosses a rose plant with the fewest number of thorns with another rose plant with fewer thorns.

An Atlantic salmon has a gene from an eel that allows it to grow year round.