

Creating New Organisms by Selective Breeding, Genetic Engineering & Cloning

1 Mutations

Genes are made of and control the characteristics of and parts. Changes to the DNA are called and these mutations can alter characteristics.

Example of a helpful mutation:

Example of a harmful mutation:

Three causes of mutation are:

2 Genetic Engineering or GM

Selective cross-breeding is

Genetic modification (GM) is

Plants & animals

Insert DNA directly

Cross species to combine

Animal Cloning & new breed



Selective Breeding

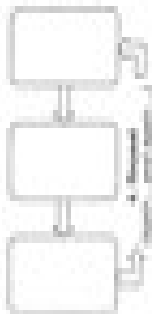
Genetic Engineering

Cloning

2 Selective Breeding

Selective breeding is when you choose animals and plants with desirable characteristics and breed them to create even more desirable offspring. simple

Just 4 new breeds



1. Use your chosen traits, plant, animal & combine the best ones



Advantages of selective breeding:

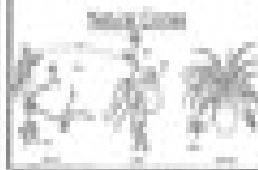
- It can create new breeds of plants and animals.
- It can create plants and animals that are better suited to the environment.
- It can create plants and animals that are more resistant to disease.
- It can create plants and animals that are more productive.

Disadvantages of selective breeding:

- It can create plants and animals that are less healthy.
- It can create plants and animals that are less able to survive in the wild.
- It can create plants and animals that are less able to adapt to change.

2 Cloning & Asexual Reproduction

Let's read keywords and phrases



Plant Cloning & new breed

