

Humans influence the inheritance of desired traits.

The goal is to produce plants and animals with improved genetic characteristics.

Uses knowledge of DNA and the relationship between genes and traits.

Has taken place for thousands of years since early civilizations began using agricultural practices to produce their food rather than relying on hunting and gathering.

The desired gene or trait is found within one specie's genome.

Improvements take place over many generations.

A technology first used to improve food crops in the 1990s.

The desired gene or trait is NOT found within the genome of a particular species. It requires advanced science technology to transfer the gene.

Once a desired gene (trait) is identified in one organism, it is transferred to another.

The use of this breeding technology is not regulated.

The use of this breeding technology is heavily regulated to ensure the resulting plant variety is safe for the environment and human consumption.