

Need to Know

Here is your vocab list for your Quiz on Friday . . .

Biotechnology	Biotechnology is a field of biology that involves the use of living things in engineering, technology, medicine, etc.
Transgenics	The study and practice of genetic modification by inserting genes from one species into the genetic material of another species. This can produce a new “designed” species.
Gene Therapy	The treatment of disease by either replacing damaged or abnormal genes with normal ones, or by providing new genetic instructions to help fight disease, eg, cancer.
Cloning	The process of creating exact copies of a DNA strand using various technologies. The DNA can then be used to make a genetically identical copy of an organism.
Extinct Species	A species that has died out completely.
DNA Fingerprinting	A technique for identifying individual organisms based upon the uniqueness of their DNA pattern. The technique has applications in forensics, paternity testing, anthropology, conservation biology and ecological research.
Genetic Engineering	The deliberate modification of the genetic structure of an organism to produce changes in organisms.
Recombinant DNA	Genetically engineered DNA made by recombining fragments of DNA from different organisms
Human Genome Project	The Human Genome Project (HGP) was an international scientific research project with a primary goal to determine the sequence of chemical base pairs which make up DNA and to identify and map the approximately 20,000–25,000 genes of the human genome from both a physical and functional standpoint.
Genetically Engineered Foods	A food substance that has foreign genes inserted into its genetic code. Genetic engineering can be done with plants, animals, or micro-organisms. Scientists can move desired genes from one plant into another, or even from an animal to a plant or vice versa.