

GENERAL BIOLOGY 2

Quarter 1 - Module 1 GENETICS

Lesson 1: Genetic Engineering

What I Know

Definition of Terms:

1. **Genetic Engineering** - is the process of using recombinant DNA (rDNA) technology to alter the genetic makeup of an organism.
2. **DNA** - or deoxyribonucleic acid, is the hereditary material in humans and almost all other organisms.
3. **Recombinant DNA** - molecules of DNA from two different species that are inserted into a host organism to produce new genetic combinations that are of value to science, medicine, agriculture, and industry.
4. **Plasmids** – are small, extrachromosomal DNA molecule within a cell that is physically separated from chromosomal DNA and can replicate independently.
5. **Cloning** - the production of an exact copy—specifically, an exact genetic copy—of a gene, cell, or organism.
6. **Genome** - an organism's complete set of genetic instructions.
7. **Gene Mapping** - is the process of establishing the locations of genes on the chromosomes.
8. **Biotechnology** - technology based on biology - biotechnology harnesses cellular and biomolecular processes to develop technologies and products that help improve our lives and the health of our planet.
9. **Polymerase Chain Reaction** - a method widely used to rapidly make millions to billions of copies of a specific DNA sample, allowing scientists to take a very small sample of DNA, and amplify it to a large enough amount to study in detail.
10. **Gene Therapy** - a medical field which focuses on the utilization of the therapeutic delivery of nucleic acids into a patient's cells as a drug to treat disease.

What's New

PRE-ACTIVITY:

1. How organisms may be modified?
 - Organisms may be modified with the use of genetic engineering technology by manipulating its genetic material.
2. Enumerate plants and animals that have desirable or enhanced traits and how each of the traits was introduced or developed. Modifying Technique ex. Classical Breeding, Recombinant DNA Technology.

| ENHANCED TRAIT | MODIFYING TECHNIQUE |
|--|-------------------------------|
| Example: Flavr-Savr - (Delayed Ripening Tomatoes) | Recombinant DNA Technology |
| 1. Corn (Insect resistance) | 1. Recombinant DNA Technology |
| 2. Soybean (Herbicide tolerance) | 2. Recombinant DNA Technology |
| 3. Canola (Altered fatty acid composition) | 3. Recombinant DNA Technology |
| 4. Plum (Virus resistance) | 4. Recombinant DNA Technology |
| 5. Cotton crop (Insect resistance) | 5. Recombinant DNA Technology |

What's More

Poster Making:

Create a poster on the steps and other methods involved in recombinant DNA.

(next page ma'am)

Guide General Biology Answers

JS Bruner



Guide General Biology Answers:

General Biology Study Guide for Biology 1010 - Answers - EBook Heather Wilson Ashworth,2015-08-06 **General Biology** Jack Rudman,National Learning Corporation,2002 Science Examination Papers Great Britain. Education Department. Department of Science and Art,1908 **Review Guide for LPN/LVN Pre-entrance Exam** National League for Nursing,Natl League Nursing,2008-09-12 Providing an overview of the math science and reading comprehension skills necessary for admission to LPN programs this bestselling guide includes multiple choice questions and practice examinations in each of the three test areas **Examination Papers for Science Schools and Classes** Great Britain. Education Department. Department of Science and Art,1877 *Science examination papers [afterw.] Science examinations [afterw.] Examination in science and technology* Education Ministry of,1899 *The Book Buyer's Guide* ,1962 AV Guide ,1940 *Science Examination Papers* Great Britain. Department of Science and Art,1905 *Science Examination Papers Including the Papers Set at the Evening Examinations ...* ,1901 **Science Examinations ... Reports, Etc** ,1904 **Publishers' Weekly** ,1896 **Resources in Education** ,1985-06 **The Publishers' Trade List Annual** ,1918 Directory, with Regulations for Establishing, Conducting, and Inspecting Schools and Classes ,1899 Sessional Papers Great Britain. Parliament. House of Commons,1901 *Parliamentary Papers* Great Britain. Parliament. House of Commons,1900 **Directory ...** Great Britain. Department of Science and Art,1899 Public Opinion ,1895 *The United States Catalog* ,1924

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