DNA Technology/Genetic Engineering



Class **Date** Name nlasmid Using special enzymes, scientists What substances successfully removed the gene that controls could be the production of interferon and inserted this produced using gene into the DNA of certain bacteria. These the biotechnology bacteria can now produce interferon. This technique shown? technique is known as **DNA** and RNA Circle the answer letter. b. inorganic chemicals a. amniocentesis c. insulin and human hormones genetic engineering c. karyotyping Individual cells can be isolated from a mature plant and grown with special This diagram represents a portion mixtures of growth hormones to produce of a nucleic acid molecule. The a number of genetically identical plants. part indicated by arrow olecule is ence of **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet en DNA. chromosomes and nuclei? a. DNA is made up of proteins that are synthesized in the cell. a. Genes are found in nuclei. Nuclei b. DNA controls the production of are found in chromosomes. proteins in the cell. b. Chromosomes are found in nuclei. c. The cell only contains DNA & protein. Nuclei are found in genes. c. Genes are found on chromosomes. Chromosomes are found in nuclei.

Which process is least likely to add to the variety of traits in a population?

a. genetic engineering

b. accurate replication of DNA

c. deletion of bases from DNA

chromosomes

Gel electrophoresis is used to separate DNA

fragments on the basis of their

function

size

DNA Technology/Genetic Engineering - Answer Key



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of a nucleic acid molecule. The part indicated by arrow V could be a second by		es of growth hormones to produce per of genetically identical plants gy plecule is ence of
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chromosomes and nuclei? a. Genes are found in nuclei. Nuclei are found in chromosomes. b. Chromosomes are found in nuclei Nuclei are found in genes. c. Genes are found on chromosomes.	ei syn b. DN/ pro c. The	A is made up of proteins that are thesized in the cell. A controls the production of teins in the cell. cell only contains DNA & protein.
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