

Name _____ Date _____ Class _____

Lesson Outline

LESSON 3

DNA and Genetics**A. The Structure of DNA**

1. Genes provide directions for a cell to assemble molecules that express traits such as eye color or seed shape.
2. Chromosomes are made of proteins and deoxyribonucleic acid, or DNA, which is an organism's genetic material.
3. Strands of DNA in a chromosome are tightly coiled like a telephone cord.
4. The work of several scientists revealed that DNA is shaped like a twisted ladder, or a(n) double helix.
5. DNA is made of nucleotides, which are molecules made of a nitrogen base, a sugar, and a phosphate group.
6. There are four nitrogen bases—adenine (A), cytosine (C), thymine (T), and guanine (G).
7. Replication copies a DNA molecule to make another DNA molecule. It produces two identical strands of DNA.

B. Making Proteins

1. The DNA of each cell carries a complete set of genes that provides instructions for making all the proteins a cell requires.
2. Segments of DNA that are not parts of genes are often called junk DNA.
3. Ribonucleic acid, or RNA, is a type of nucleic acid that carries the code for making proteins from the nucleus to the cytoplasm.
 - a. Like DNA, RNA is made of nucleotides.
 - b. Unlike DNA, RNA is single-stranded and has the sugar ribose. It has the nitrogenous base uracil instead of thymine.
4. The process of making mRNA from DNA is transcription.
5. The three types of RNA are transfer RNA, ribosomal RNA, and messenger RNA.
6. The process of making a protein from RNA is called translation.

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Biology- DNA and Genetics - Ms Lange Science

Name Date Class Key Concept Builder LESSON 3 DNA and Genetics Key Concept What is DNA? Directions: On the line before each statement, write T if the statement is true or F if the statement is false. 1. Genetic information is encoded in a molecule called DNA. 2. This molecule is shaped like a twisted ladder, a shape that is called a triple helix. 3. James Watson and Francis Crick discovered the structure of this molecule after studying gamma-ray images of the molecule. 4. The sides of the ...

DNA and Genetics Key Concept Builder LESSON 3 Key Concept

DNA and Genetics Key Concept Builder LESSON 3 Key Concept Name Date Class Key Concept Builder LESSON 3 DNA and Genetics Key Concept What is DNA? Directions: On the line before each statement, write T if the statement is true or F if the statement is false. 1. Genetic information is encoded in a molecule called DNA. 2. This molecule is shaped like a twisted ladder, a shape that is called a triple helix. 3. James Watson and Francis Crick discovered the structure of this molecule after studying ...

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Chapter 11 Lesson 3 Dna And Genetics Lesson Outline Answers

DNA and Genetics. Directions: Write the correct term in the boxes to the right of each definition. Then unscramble the letters in the shaded boxes to spell a seventh term. 1. a change in the nucleotide sequence of a gene. 2. the copying of DNA. 3. carries the code for making proteins from the nucleus to the cytoplasm. 4. process that makes mRNA from DNA. 5.

Lesson 3 | DNA and Genetics

Name Date Class Lesson Quiz A LESSON 3 DNA and Genetics Multiple Choice Directions: On the line before each statement, write the letter of the correct answer. 1. A change in the nucleotide sequence of a gene is a A. mutation. B. replication. C. translation. 2. Transcription is the process of making A. mRNA from DNA. B. DNA without the use of nitrogen bases. C. chemicals that link chains of amino acids. Matching Directions: On the line before each definition, write the letter of the term that ...

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DNA and Genetics Lesson Outline. STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. nancallum. Key Concepts: Terms in this set (27) directions. Genes provide ____ for a cell to assemble molecules that express traits such as eye color or seed shape. DNA. Chromosomes are made of proteins and deoxyribonucleic acid, or ____, which is an organism's genetic material ...

DNA and Genetics Lesson Outline Flashcards | Quizlet

Genetics 53 Name Date Class Key Concept Builder LESSON 3 DNA and Genetics Key Concept What is DNA? Directions: On the line before each statement, write T if the statement is true or F if the statement is false. 1. Genetic information is encoded in a molecule called DNA. 2. This molecule is shaped like a twisted ladder, a shape that is called a triple helix. 3. James Watson and Francis Crick discovered the structure of this molecule after studying gamma-ray images of the molecule. 4. The ...

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1. messenger RNA is produced in a process call TRANSCRIPTION. Messenger RNA copies the coded message from the DNA. RNA bases pairing up with the DNA bases form an RNA strand. The Messenger RNA carries the genetic code from the DNA inside the nucleus into the cytoplasm and it attaches to ribosomes

SCIENCE - Chapter 5, Lesson 3 DNA AND GENETICS

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