

Name _____ Class _____ Date _____

Chapter 14

The Human Genome

Section 14-1 Human Heredity (pages 341-348)

This section explains what scientists know about human chromosomes, as well as the inheritance of certain human traits and disorders. It also describes how scientists study the inheritance of human traits.

Human Chromosomes (pages 341-342)

1. How do biologists make a karyotype? _____

2. Circle the letter of each sentence that is true about human chromosomes.
 - a. The X and Y chromosomes are known as sex chromosomes because they determine an individual's sex.
 - b. Males have two X chromosomes.
 - c. Autosomes are all the chromosomes, except the sex chromosomes.
 - d. Biologists would write 46XY to indicate a human female.
3. Complete the Punnett square below to show how the sex chromosomes segregate during meiosis.

Male (XY) × Female (XX)

	X	X
X		
Y		

4. Why is there the chance that half of the zygotes will be 46XX and half will be 46XY? _____

5. Is the following sentence true or false? Human chromosomes contain both protein and a single, double-stranded DNA molecule.

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Chapter 14 The Human Genome Section Review 3 Answers

Chapter 14 The Human Genome

Chapter 14 The Human Genome

Name _____ Class _____ Date _____ Chapter 14 The Human Genome Section 14-1 Human Heredity (pages 341-348) This section explains what scientists know about human chromosomes, as well as the inheritance of certain human traits and disorders. It also describes how scientists study the inheritance of human traits. Human Chromosomes (pages 341-342) 1. How do biologists make a karyotype? 2. Circle the letter of each sentence that is true about human chromosomes. a. The X and Y chromosomes are ...

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CHAPTER 14 THE HUMAN GENOME. 14-1 Human Heredity. A. Human chromosomes - chromosomes are analyzed by taking a photograph of condensed chromosomes during mitosis - the chromosomes are then cut out of the photograph and grouped together in pairs - a picture of chromosomes arranged this way is known as a karyotype (See Fig 14-2 pg. 341)

CHAPTER 14 THE HUMAN GENOME

Chapter 14 - The Human Genome The Human Genome Project (HGP) formally began in 1990 and was finished in 2003. The goal was to discover the DNA sequences for all of the 20,000-22,000 genes that are...

Chapter 14 - The Human Genome - Judy Jones Biology

Chapter 14 The Human Genome. Flashcard maker : Richard Lattimore. What combination of sex chromosomes produces a human female? The combination of two x sex chromosomes are what produce a human female. What combination of sex chromosomes produces a human male? The combination of one x sex chromosome & one y chromosome are what produce a human male. What fact explains why approximately half of ...

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Chapter 14: The Human Genome. STUDY. Flashcards. Learn. Write. Spell. PLAY. Match. Gravity. Created by. jplakey. Taken from the study guide for Chapter 14. Terms in this set (74) karyotype. Biologists can analyze human chromosomes by looking at a _____. homologous. A karyotype is a picture of the chromosomes from a cell arranged in _____ pairs. 46. Humans have ____ chromosomes. sex. Two ...

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Chapter 14 The Human Genome 14-1 Human Heredity Biologists can analyze human chromosomes by looking at a karyotype. A karyotype is a picture of the chromosomes from a cell arranged in homologous pairs. Humans have 46 chromosomes. Two of these chromosomes, X and Y, are the sex chromosomes. Females have two X chromo- somes (XX). Males have one X and one Y chromosome (XY). The other 44 chromo ...

Chapter 14 The Human Genome Summary

Chapter 14 "The Human Genome" Tools. Copy this to my account; E-mail to a friend; Find other activities; Start over; Help; Check your knowledge of human genetic disorders and traits. A B; karyotype : picture of chromosomes arranged in pairs by size and shape: sex chromosomes: chromosomes that determine an individual's sex: autosomes: chromosomes that do not determine the sex of an individual ...

Quia - Chapter 14 "The Human Genome"

Chapter 14, The Human Genome (continued) Small sample of DNA is cut with a(an) enzyme. The fragments are separated by size using . Fragments with highly variable regions are detected with a(an) , revealing a series of DNA bands of various sizes. The pattern of bands produced is the , which can be distinguished statistically from the pattern of any other individual in the world. The Human ...

Chapter 14 The Human Genome, SE

•A genome is the full set of genetic information that an organism carries in its DNA. •Humans contain 46 chromosomes •2 of the 46 chromosomes are sex chromosomes because it determines the sex of an individual • Females have 2 copies of the X chromosome (XX) • Males are XY •The remaining 44 chromosomes are autosomes as it does not determine the sex of an individual. 11/18/2016 3 ...

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Chapter 14 The Human Genome Section Review 14-1 1. Two copies of the X chromosome produces a human female. 2. One X and one Y chromosome produce a human male. 3. A sperm cell, which contains either a Y or an X chromosome, determines whether a child is male or female. 4. Half of the sperm cells that fertilize eggs carry an X chromosome and half carry a Y chromosome. Because all egg cells carry ...

Chapter 14 The Human Genome ANSWER KEY - greinerudsd ...

Chapter 14 Notes - The Human Genome Section 14-1 Human Heredity Human Chromosomes Biologists analyze human cells by looking at them under the _____. • Cells are photographed during _____, when the chromosomes are fully condensed and easy to see.! • Biologists then cut out the _____ from the photographs and group them together in _____.! A picture of chromosomes arranged in this way is ...

Chapter 14 Notes - The Human Genome

Chapter 14 the Human Genome Worksheet Answer Key and Karyotype Worksheet Answer Key Kidz Activities This worksheet is going to allow you to completely unlock the secrets of your DNA and the abilities that your own body has and will allow you to do what was once thought to be impossible.

Chapter 14 The Human Genome Worksheet Answer Key

Human Genome-Chapter 14. STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. KevinHanson117. Key Concepts: Terms in this set (47) Karyotype. A picture of all the chromosomes in a cell arranged in pairs-can reveal changes in chromosome number. Turner Syndrome. A chromosomal disorder in which a female is born with only one X chromosome . Klinefelter Syndrome. A ...

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Chapter 14-The Human Genome. STUDY. Flashcards. Learn. Write. Spell. Test. PLAY.

Match. Gravity. Created by. Dianamagdesian. Terms in this set (28) Karyotype. A picture of all the chromosomes in a cell arranged in pairs. Sex chromosomes. one of the 23 pairs of chromosomes in the human, contains genes that will determine the sex of the individual; X and Y chromosomes . Autosome. any chromosome ...

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Extra Help and Resources ... X-Inactivation Video Non-disjunction Video Non-disjunction Website (contains helpful pictures)

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