

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

# 14 Human Heredity

## Big idea Information and Heredity

Q: How can we use genetics to study human inheritance?

### Chapter Summary



1. What are the three major topics in Lesson 1? Human Chromosomes, Human Genetic Disorders, Studying the Human Genome
2. What do you think a chromosomal disorder is? A disorder having to do with Chromosome
3. In Lesson 3, what does the word *manipulating* mean? as in palpation, reduction of dislocations, or changing the position of a fetus of a fetus.
4. Can you predict what the Human Genome Project is about? I believe they will be testing genes in humans

## 14.1 Human Chromosomes

### Lesson Objectives

- ☑ Identify the types of human chromosomes in a karyotype.
- ☑ Describe the patterns of the inheritance of human traits.
- ☑ Explain how pedigrees are used to study human traits.

### Lesson Summary

**Karyotypes** A **genome** is the full set of all the genetic information that an organism carries in its DNA. Chromosomes are bundles of DNA and protein found in the nucleus of a eukaryotic cell. A **karyotype** is a picture that shows the complete diploid set of human chromosomes, grouped in pairs and arranged in order of decreasing size. A typical human diploid cell contains 46 chromosomes, or 23 pairs.

- ▶ Two of the 46 are the **sex chromosomes** that determine an individual's sex: XX = female and XY = male. The X chromosome carries nearly 10 times the number of genes as the Y chromosome.

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