

14.1 Human Chromosomes

Lesson Objectives

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



BUILD Vocabulary

A. The chart below shows key terms from the lesson with their definitions. Complete the chart by writing a strategy to help you remember the meaning of each term. One has been done for you.

Term	Definition	How I'm Going to Remember the Meaning
Autosome	The 44 human chromosomes that are not sex chromosomes.	<i>Auto- means "self." Autosomes determine human traits other than sex.</i>
Genome	The full set of genetic information that an organism carries in its DNA.	
Karyotype	A picture that shows chromosomes grouped together in pairs.	
Pedigree	A chart that shows the relationships in a family.	
Sex chromosomes	The chromosomes that determine if an individual is a male or female.	
Sex-linked gene	A gene located on a sex chromosome.	

B. As you work through this lesson, you may find these terms in the activities. When you write a key term or a definition, **highlight** the term or the definition.

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Chemical Reaction And Equations 2 Acids based and Salts 3 Metals and Non Metals 4 Carbon and Its Compounds 5 Periodic Classification of elements 6 Life Processes 7 Control and Coordination 8 How do Organisms Reproduce 9 Heredity and Evolution 10 Light Reflection and Refraction 11 The Human Eye and the Colourful World 12 Electricity 13 Magnetic Effects of Electric Current 14 Sources of Energy 15 Our Environment 16 Sustainable Management of Natural Resources Practical Project Appendix Answer Sheet Examination Paper **Study Guide for Brunner & Suddarth's Textbook of**

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