

14 Human Heredity



Information and Heredity

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

14.1 How does studying the human genome help us to draw conclusions about the inheritance of traits?

WHAT I KNOW

Current science: Humans inherit their traits from their parents. They have genes made of DNA just as other organisms do.

WHAT I LEARNED

Current science: Inheritance in humans may follow a simple dominance pattern, or it may involve codominance or multiple alleles. Some traits are sex-linked. Pedigrees reveal patterns of inheritance.

14.2 What causes some human genetic disorders?

Current science: Mutations can cause changes in genes that lead to human disorders. Mutations can occur in single genes or in entire chromosomes.

Current science: A mutation in human DNA may change a protein by altering an amino acid sequence. That change can affect an individual's phenotype. So can nondisjunction, which may lead to a chromosomal disorder.

14.3 How do we study the human genome and what have we learned so far?

Current science: Humans have many genes on their 46 chromosomes.

Current science: Tools that can isolate, separate, and replicate DNA allow researchers to read the base sequences in human DNA. That technology has made possible the Human Genome Project, which has identified the base pairs in all human genes.

Guided And Study Workbook Human Heredity Answers

SJ Ball



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the chemical equation between the two by using stoichiometric principles the iron displaces the copper ii sulfate ions the copper ii is then reduced and gains electrons

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web stoichiometry can be defined as the relationship between the relative quantities of substances taking part in a reaction or forming a compound stoichiometric principles can be used to deduce the appropriate chemical equation for a reaction in our experiment we used solid iron in the form of powder was added to a solution of copper ii sulfate

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web under the finalise of the experiment it was found that iron was the limiting reactant and iron ii sulfate was a product of the reaction between 7 0002g away copper ii sulfate and 2 0101g iron metal which produced 2 3037g of copper product with a percent yield of 100 72 introduction

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