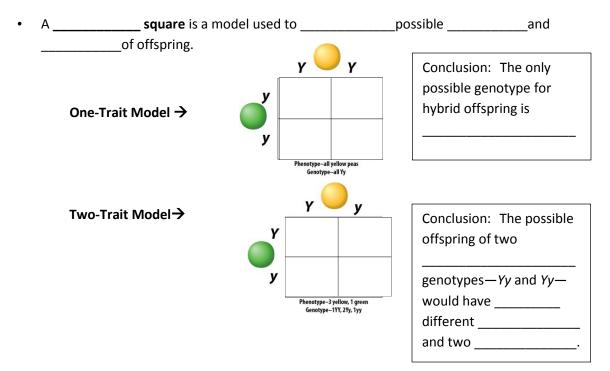
Chapter 4 Lesson 2 Notes Inheritance

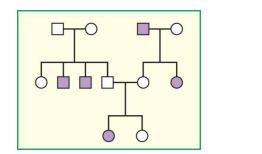
Modeling Inheritance

- Two tools can be used to identify and predict traits among genetically related individuals.
 - •
- Punnett Squares



Pedigrees

• A ______ shows genetic ______ that were ______ by members of a family tree.



Types of Dominance

• Alleles show ______ dominance when they produce a phenotype that is a ______ of the parents' phenotypes

Chapter 4 Lesson 2 Notes Inheritance

•	When both alleles can be	_ in the	, the interaction is called		
	·				
Multipl	e Alleles				
•	Some genes have than	alleles, or	alleles.		
Sex-Linked Inheritance					
	Chromosomesandare the determine or sex.	chromosomes —the	ey contain the genes that		
Polygenic Inheritance					
•	inheritance is when	genes determir	he the of a trait.		

Human Genetic Disorders

An ______ can result in a phenotype called a genetic ______.

Table 3 Some Human Genetics Disorders				
Genetic Disorder	Type of Disorder	Health Problems		
Huntington's disease	Dominant	Breakdown of brain tissue; shortened life span		
Sickle-cell disease	Codominant	Red blood cell destruction; clogged blood vessels		
Cystic fibrosis	Recessive	Abnormally thick mucus; affects many organ systems		
Hemophilia	X-linked recessive	Excessive bleeding due to blood clotting problems		
Down syndrome	Trisomy—extra chromosome # 21	Mental retardation; heart defects		