

F₂ Generation

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Worksheet 16

Dihybrid Cross



Use with Chapter 10, Section 10.1

	. Describe the ${ m F_1}$ dihybrid cross shown in the transparency.
	Identify the combinations of alleles that are contained in the gametes of the F_1 plants.
3.	Complete the Punnett square for the F ₂ generation. Each box should contain four alleles, two for each gene. One allele for each gene came from the female parent. The other allele for each gene came from the male parent. Each box should also identify the phenotype of each offspring. How many different genotypes are there in your completed square? Identify them.
•	What are the proportions of the different genotypes of the F ₂ generation?
	What are the phenotypic proportions?
_	studying the dihybrid crosses, Mendel found that the inheritance of one trait does not