

## Chapter 11 Keys to Success

Why are pea plants such a useful species for studying genetics?

What do homozygous and heterozygous mean? True-breeding?

How are dominant alleles identified using a letter? Recessive?

How do dominant and recessive alleles interact in a heterozygote?

How are the P, F<sub>1</sub> and F<sub>2</sub> generations formed?

What would be the resultant phenotype ratio for a monohybrid cross between two heterozygotes?

What would be the resultant phenotype ratio for a dihybrid cross between two double heterozygotes?

Can genotype and phenotype ratios differ in the same cross? Explain.

What are autosomal chromosomes? Sex chromosomes?

How does codominance work and what is an example?

How does incomplete dominance work and what is an example?

What does polygenic inheritance mean and what are some examples? What type of variations would you expect to see in human populations regarding their phenotypes?

What are some common sex-linked diseases?

Do males or females get sex-linked disease more? Explain why.