

## Chapter 10 Keys to Success

What is the importance of meiosis?

What do diploid and haploid mean? How do they relate to meiosis?

What are examples of human gametes?

How many chromosomes do humans have? Homologous sets? What are homologues?

How are alleles defined? How many do you have for each gene?

What diversity producing process occurs in prophase I?

What separates during meiosis I? Meiosis II?

What key aspects of meiosis increase variation? How do they work?

Why is genetic variation so important?

What is the major difference between meiosis I and mitosis?

What is a nondisjunction? What chromosomal abnormalities might it lead to?

What procedure helps scientists to identify abnormal chromosome shapes and numbers?

Does having more chromosomes make you superhuman? Explain.

What is the general biological chromosomal requirement to being male? Female?