Honors Biology Chapter 10 Study Guide

Vocabulary

Heredity

Genetics

Trait

Gamete

Pollination

True Breeding

Fertilization

Hybrid

Allele

Dominant

Recessive

Law of segregation

Phenotype

Genotype

Homozygous

Heterozygous

Law of independent assortment

Diploid

Haploid

Homologous chromosomes

Meiosis

Sperm

Egg

Zygote

Sexual reproduction

Crossing over

Genetic recombination

Nondisjunction

Concepts

How many chromosomes does the human body have?

How many chromosomes do you get from each parent?

What are three characteristics of homologous chromosomes?



What does meiosis produce?

Stages of meiosis

Why is meiosis important? ( 3 reasons)



What is the difference between sexual and asexual reproduction?

Gregor Mendel

* Biography
* Describe his pea plant experiment
* Why did he pick pea plants?

P, F1, & F2 Generations

What are five traits Mendel used to study pea plants?

Describe Mendel’s law of segregation?

What is a monohybrid cross?

Fill in the following chart

|  |  |  |
| --- | --- | --- |
| **Symbol** | **Genotype** | **Phenotype** |
| BB |  |  |
| Bb |  |  |
| bb |  |  |

Who was Reginald Punnet?

Review Punnet Square Worksheets