



<http://fcelter.fiu.edu/schoolyard/>

Meiosis

1. What do the diploid and haploid numbers represent?
2. What is a zygote?
3. Compare/contrast gametes and zygotes
4. Compare/contrast mitosis with meiosis.
5. List the key events and describe the location and number of chromosomes and cells in each phase for humans:
 - a. Interphase
 - b. Prophase I
 - c. Metaphase I
 - d. Anaphase I
 - e. Telophase I/Cytokinesis
 - f. Prophase II
 - g. Metaphase II
 - h. Anaphase II
 - i. Telophase II
 - j. Cytokinesis
6. Compare/contrast meiosis in males and females.
7. When does crossing over occur and describe its function.
8. If hair color and eye color in bunnies assorted independently, what could you expect to find?
9. Define
 - a. Tetrad
 - b. Synapsis
 - c. Crossing over
 - d. Independent assortment
 - e. Oogonia
 - f. Spermatogonia
 - g. Sex chromosomes
 - h. Polar bodies
 - i. Life cycle
10. Describe the structure and function of the human sex chromosomes.
11. Why would it be an evolutionary advantage to reproduce sexually?