

Name _____

AP Biology

TEXT: *Biology*, Campbell and Reece

7th Edition

Chapter 13

**Meiosis
Thematic Review Guide**

1. Explain the key features of the two categories of reproduction.

a. Asexual Reproduction _____

b. Sexual Reproduction _____

2. What is the role of meiosis in sexual reproduction?

3. What is a karyotype?

4. Identify several things that can be seen with a karyotype?

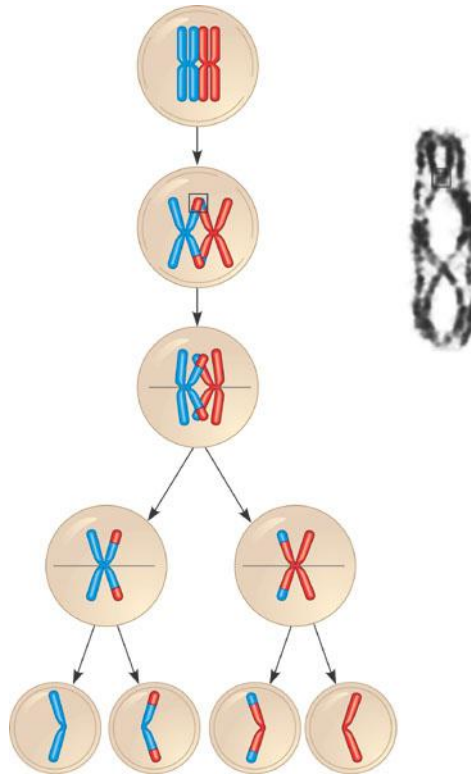
8. Meiosis is an important source of variation. Define and describe how each of the following contributes to **variation** within a species.

a. Independent Assortment _____

b. Random fertilization _____

c. Crossing Over _____

9. Label the flowgram of homologous chromosomes being certain to indicate the crossing-over event and the products of this process.



10. List the significant **differences** between mitosis and meiosis.

11. What is the significance of genetic variation and natural selection?
