Honors Biology Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
NDHS Per: \_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

**Meiosis Reading Guide  
 Pages 323 – 327**

**Define**:

Homologous  
  
 Diploid  
 How many chromosomes are in a diploid cell of a human?

Haploid  
 How many chromosomes are in a haploid cell of a human?

Meiosis

What are the major events of prophase I in meiosis?

What happens in crossing over? How does this affect the genetic content of the chromosomes?

How does the arrangement of the chromosomes in metaphase I of meiosis differ from the arrangement of chromosomes in metaphase of mitosis? (compare page 285 and 324)

How are the final four phases of meiosis similar to mitosis? How are they different?

What are the names of the gametes produced by meiosis? If the two merge they form a \_\_\_\_\_\_\_?

How many phases does meiosis have?

How many gametes are formed?