Mitosis and Meiosis Reading Answer Sheet
45 points total

Name __________________________

1. What is a gene? What is a locus?

2. When do chromosomes appear in a cell?

3. What is the function of the chromosome?

4. What are homologous chromosomes?

5. What does it mean to be diploid?

6. What does it mean to be haploid?

7. What is synapsis?

8. Go to the mitosis vs. meiosis web site to answer the following questions.
What are the names of the phases of both mitosis and meiosis?

How many stages does mitosis have vs. meiosis?

How many cells does mitosis produce? Are they diploid or haploid?

How many cells does meiosis produce? Are they diploid or haploid?

10 points
Use the PBS Nova site from above to draw mitosis. [http://www.pbs.org/nova/baby](http://www.pbs.org/nova/baby)
Draw Mitosis for a diploid organism of $2N = 6$. Use different colors to represent the 3 pairs of chromosomes. Label all phases and give a running narrative of what is happening in each phase.
20 points
Use the PBS Nova web site to draw meiosis. [http://www.pbs.org/nova/baby](http://www.pbs.org/nova/baby)
Draw meiosis for 2N = 6 for a diploid organism. Show all stages and give a running narrative of what is taking place.