**CP Biology - Cell division and genetics pre-test**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_ Per:\_\_\_\_\_

1. What are the four stages of the cell cycle?
2. Define mitosis
3. Identify the stages of mitosis
4. Define meiosis
5. What are 2 differences between mitosis and meiosis?
6. What is a Punnett square and how is it used?
7. Draw a Punnett square.
8. Who was Gregor Mendel?
9. What is genetics?
10. Why is it important to understand genetics?
11. Listed below are some of the terms we will be using during this unit. If you recognize the term, put a checkmark in the ‘recognize’ column, if you also know the meaning, put a checkmark in the ‘know definition’ box.

**Term Recognize Know definition**

Gene

Allele

Homozygous

Heterozygous

Chromosome

Sister chromatid

Homologous chromosomes

Diploid

Haploid

Trait

Genotype

Phenotype

Dominant

Recessive

Karyotype

Pedigree

1. Write a short essay explaining what you know about the study of genetics from your previous science courses.