

**2011 Genetics Review Sheet**  
VOCABULARY

Name \_\_\_\_\_

Chromosome	Homozygous	Meiosis
Gene	Hybrid	Replication
Trait	Heterozygous	Cytokinesis
Allele	Mendel	Mutation
Dominant	Probability	Cancer/Tumor
Recessive	Punnett square	Amino acid
Phenotype	Haploid	DNA
Genotype	Diploid	RNA
Purebred	Mitosis	Carrier

**DNA STRUCTURE AND FUNCTION**

**Resources: DNA worksheet, DNA extraction lab, DNA quiz**

- What is a gene?
- Where are chromosomes located?
- 2 main scientists that established the structure of DNA?
- Female scientist who paved the way for them?
- Shape of DNA?
- Sugar of DNA?
- 4 bases of DNA?
- What pairs with what?
- How does it copy itself? What is the term for this?

**MITOSIS**

**Resources: Mitosis Notes in Notebook**

- What is it and why is it important?
  - o Describe the major stages and put them in order?
  - o How many cells are made from mitosis?
  - o How many chromosomes are found in each cell after mitosis? Haploid or diploid?
  - o What type of cells does this occur in?
  - o What happens during interphase and cytokinesis stages of cell division?

**CANCER**

**Resources: Cancer- Cell Division Gone Wrong Worksheet, Cancer reading.**

- What is cancer?
- What are some ways cancer is treated?
- What things can we do to possibly prevent getting cancer?

**PUNNETT SQUARES**

**Resources: SpongeBob Worksheet, Challenge worksheet(s), Term/ Punnett Square Quiz**

- Be able to set up and execute a Punnett square problem.
  - o Be able to describe the outcome of a Punnett square problem:
  - o What are the possible genotypes? Possible phenotypes?
  - o Figure out the probability/percentage of inheritance of a trait using a Punnett square

**PROTEIN SYNTHESIS**

**Resources: Class notes, book pages 99-101 and the "Decoding" Worksheet**