

## **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

# Human Inheritance Lab 35 Answer Key

**Otto Glasser**



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