

## Genetics Unit Review Worksheet

Directions: **IN PENCIL ONLY** answer the following questions and complete the Punnett Squares and Pedigree Charts. You will be making corrections with a KEY for homework using a non blue/black pen.

Use the following table to aid in determining the genotypes/phenotypes for each pattern of inheritance:

	Autosomal Recessive Inheritance	Sex-linked (recessive) Inheritance	Autosomal Dominant Inheritance	Incomplete Dominance	Codominance
What is it?	Explains traits or disorders that are found on autosomes (chromosome pairs 1-22) Ex: PKU, Cystic Fibrosis, Albinism, Sickle Cell	Explains traits or disorders that are found on sex chromosomes- more specifically, the X (chromosome pair 23) Ex: color-blindness, hemophilia	Explains disorders that are dominant and found on autosomes (chromosome pairs 1-22) Ex: Huntington's, Achondroplasia, DMD, FH, Neurofibromatosis	Explains what happens when there is a blending of traits.  Ex: crossing a red flower with a white flower to make a pink flower.	Explains what happens when neither trait is completely dominant. Both traits are <b>EQUALLY</b> expressed (shown).  Ex: crossing a red flower (RR) with a white flower (WW) to make a flower with red and white spots (RW).
Genotypes & Phenotypes expressed	H = Healthy (HH or Hh) *Hh = Carrier  h = disease (hh)	X <sup>+</sup> = Healthy X <sup>-</sup> = disease <u>Males:</u> *NO CARRIERS X <sup>+</sup> Y = Healthy X <sup>-</sup> Y = disease <u>Females:</u> X <sup>+</sup> X <sup>+</sup> = Healthy X <sup>+</sup> X <sup>-</sup> = Healthy (carrier) X <sup>-</sup> X <sup>-</sup> = disease	H = Disease (Hh or Hh) h = healthy (hh) *NO CARRIERS	Ex: Red = RR White = WW Pink = RW  Ex: Blue = BB Yellow = YY Green = BY	Ex: Type AB blood = AB  Results from crossing: Type A blood (AA or Aa) with Type B blood (BB or Bb)

### Define the following:

- 1) Genotype: \_\_\_\_\_
- 2) Phenotype: \_\_\_\_\_
- 3) Allele: \_\_\_\_\_
- 4) Punnett Square: \_\_\_\_\_  
\_\_\_\_\_
- 5) Pedigree Chart: \_\_\_\_\_  
\_\_\_\_\_
- 6) Autosomes: \_\_\_\_\_
- 7) Sex Chromosomes: \_\_\_\_\_

### Answer the following:

- 8) a. In terms of genetic material, what do you inherit from your mother? \_\_\_\_\_
- b. Your father? \_\_\_\_\_

# Genetics Unit Review Sheet Answers

**Mark Steyvers**



**Genetics Unit Review Sheet Answers:**

## **Genetics Unit Review Sheet Answers** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Genetics Unit Review Sheet Answers**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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