**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hr.**

**NOTES Chapter 14.1 – Mendelian Inheritance of Human Traits**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   1. **A \_\_\_\_\_\_\_\_\_\_ is a \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of genetic inheritance. Looks like a \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_.**
   2. **Symbols:**
      1. **\_\_\_\_\_\_\_\_ represent \_\_\_\_\_\_\_\_\_\_. \_\_\_\_\_\_\_\_\_\_\_\_ represent males.**
      2. **\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_ represent individuals having the \_\_\_\_\_\_\_ being studied.**
      3. **\_\_\_\_\_\_\_\_\_\_\_\_\_ individuals do not show the \_\_\_\_\_\_\_\_\_.**
      4. **\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ individual represents a \_\_\_\_\_\_\_\_\_\_, a heterozygous individual.**
   3. **Lines:**
      1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ --- indicate \_\_\_\_\_\_\_\_\_\_\_\_.**
      2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_--- connect \_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
   4. **Other:**
      1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ --- represent generations with \_\_\_\_\_\_\_\_\_\_\_\_ numerals on \_\_\_\_\_\_\_\_ . Most recent appears at the bottom.**
      2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_ to \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**NOTES Chapter 14.2 Genetic Disorders**

**Terms to know: Autosome ---- any \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that is \_\_\_\_\_\_\_ a sex chromosome.**

**Sex chromosome ---- any \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ involved with \_\_\_\_\_\_\_\_\_\_\_\_\_\_ the sex of an organism.**

1. **Simple Recessive Heredity**

**----- \_\_\_\_\_\_\_ genetic disorders are caused by \_\_\_\_\_\_\_\_\_\_\_\_\_ alleles (\_\_\_\_\_\_\_\_\_).**

1. **\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_**

**----- Common among \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_.**

**----Due to a \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ in the plasma membrane.**

**----Results in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_ \_\_\_\_\_\_\_\_ in the \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_.**

**--\_Treatment: \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ and new \_\_\_\_\_\_\_\_\_\_.**

1. **\_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_ Disease**
   1. **Caused by the \_\_\_\_\_\_\_\_\_\_\_ of an \_\_\_\_\_\_\_\_\_\_\_ that normally \_\_\_\_\_\_\_\_\_ down a \_\_\_\_\_\_\_\_ produced and stored in tissues of the \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_.**
   2. **Reults in \_\_\_\_\_\_\_\_\_\_\_\_\_, progressive loss in movement, \_\_\_\_\_\_\_ Deterioration, and \_\_\_\_\_\_\_ usually by age \_\_\_\_.**
2. **Phenylketonuria (PKU)**
   1. **Results: from the \_\_\_\_\_\_\_\_\_\_ of an \_\_\_\_\_\_\_\_\_ that converts one \_\_\_\_\_\_\_ \_\_\_\_\_\_\_, phenylalanine, to a different \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_, tyrosine.**
   2. **Causes: damage to the \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_. All \_\_\_\_\_\_\_ are tested at \_\_\_\_\_\_\_\_\_.**
   3. **Treatment: Special \_\_\_\_\_\_\_\_ low in phenylalanine until the \_\_\_\_\_\_\_ is \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_.**
3. **Sickle Cell Anemia**
   1. **Results: \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ cells are \_\_\_\_\_\_\_\_\_\_\_\_\_ shape. (Look like a \_\_\_\_\_\_\_\_\_\_\_ or crescent \_\_\_\_\_\_\_\_\_.)**
   2. **Causes: The \_\_\_\_\_ blood cell to \_\_\_\_\_\_\_\_\_ down prematurely, which can lead to \_\_\_\_\_\_\_\_\_\_\_\_ causing a shortness of \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_ and delayed \_\_\_\_\_\_\_\_\_\_\_\_\_ and development in children.**
   3. **Treatment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, stem cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and Gene Therapy (In experimental stages).**
4. **Simple Dominant Heredity**
   1. **In \_\_\_\_\_\_\_\_\_\_\_\_ heredity only a single \_\_\_\_\_\_\_\_\_\_\_ allele (gene) is needed for \_\_\_\_\_\_\_.**
   2. **Huntington’s Disease**
      1. **Lethal \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ caused by a rare dominant allele.**
      2. **Results in \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of certain areas of the \_\_\_\_\_\_\_\_\_\_.**
      3. **\_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_.**
      4. **Onset of the disease usually occurs \_\_\_\_\_\_\_\_\_\_\_ the ages of \_\_\_\_\_ and \_\_\_\_\_. There is a \_\_\_\_\_\_\_\_\_ test for this \_\_\_\_\_\_\_\_\_\_\_.**