

Activity 1

1. Read *Understanding Heredity*
2. **Highlight** important words and concepts
3. **Tape** article into your notebook
4. On the next page, **answer the following Questions in your notebook.**

(Restate the question in your answer)

- a. **What happens to the chromosomes when a cell prepares to divide?**
- b. **How are sex cells different from non-sex cells?**
- c. **Why are the two sets of chromosomes in a fertilized egg not identical?**
- d. **Which base molecules always combine (pair) together in DNA?**
- e. **What role do proteins play?**
- f. **What is a genotype?**

Activity 2

1. Tape the **Heredity Slideshow** notetaker into your notebook
2. **Open the Heredity Slideshow**
 - a. FOSSweb.com
 - b. **Class Login**
 - c. Username=**WatsonPS8**, Password=**Patriots**
 - d. Select **Heredity and Adaptations**
 - e. Select **Heredity Slideshow**
3. Click through the Heredity Slideshow and **fill out the notetaker**
 - a. Match the pictures on the notetaker with the pictures in the slide show
 - b. You do not need to write everything on the slides into your notes.
Focus on definitions and purpose of different structures

Activity 3

1. Go to <http://learngenetics.com/content/basics/>
2. Locate *Tour of Basic Genetics* on the top right.
3. Watch the **What are...** videos for
 - a. ...Traits
 - b. ...DNA and Genes
 - c. ...Proteins
 - d. ...Inheritance
 - e. ...Mutations



Activity 4

1. Go to <http://learngenetics.com/content/basics/>
2. Click on *Observable Human Characteristics*
3. Read about the different traits and fill out the **An Inventory of My Traits – Survey**
4. Using data from people at your table, fill out the **Inventory of My Traits - Data Table**
5. Tape the Survey and Data Table into your notebook

