Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Directions**: Use a pencil and a ruler to NEATLY draw, label, and color the figures. Answer the questions about each picture or define the specified words.

Cuticle:

Cortex:

Medulla

**Figure 3-3: Cross section of hair shaft.** (In the textbook, page 54)

Description:

How can hair be used as class evidence?

How can hair be used as individual evidence?

**Figure 3-2: Cross section of hair follicle.** (In the textbook, page 53)

**Figure 3-5: Medulla Pigmentation Patterns.** (In the textbook, page 54) **Figure 3-12: Cuticle patterns can be used to identify human hair or other animal hair.**(Book p. 58)

|  |  |  |
| --- | --- | --- |
| **Medulla Pattern** | **Description** | **Diagram** |
| **Continuous** |  |  |
| **Interrupted (intermittent)** |  |  |
| **Fragmented or Segmented** |  |  |
| **Solid** |  |  |
| **None** |  |  |

|  |  |
| --- | --- |
| **Cuticle Pattern** | **Diagram** |
| **Imbricate**  Species: |  |
| **Coronal**  Species: |  |
| **Spinous**  Species: |  |

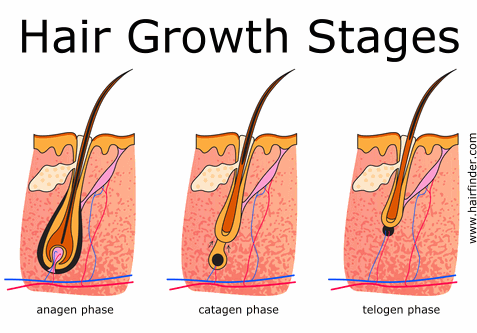
**Figure 4 from lab handout: Medulla Structures**

**Describe the three stages of hair growth:**

**Anagen:**

**Catagen:**

**Telogen:**



|  |  |
| --- | --- |
| **Medulla Structure** | **Diagram/Drawing** |
| **Uniserial** |  |
| **Multiserial** |  |
| **Vacuolated** |  |
| **Lattice** |  |
| **Amorphous** |  |

**Bonus:** Looking at figure 3-10 on page 57 in your textbook, how can the distribution of pigment granules in a sample of hair help you identify someone’s ancestry?