

Name \_\_\_\_\_

Date \_\_\_\_\_ Per \_\_\_\_\_

## **BONE HISTOLOGY – looking at real cells**

**One of the main themes in physiology is to see the relationship between structure and function so it is important to look at the real structures in real cells.**

1. GET COLORED PENCILS!!! PINK, PURPLE, RED, BROWN, YELLOW and GREEN
2. Go to histology website ([www.histologyguide.org](http://www.histologyguide.org))
3. Click on slide box
4. Scroll down to organs, click on CHAPTER 5 CARTILAGE AND BONES
5. In the space provided, sketch and label the appropriate parts
6. To return to the list of slides, click on Chapter 5 cartilage and bones, in the top left corner

### **1. BONE: SLIDE MHS202 Ground bone Schmorl's stain**

- a. Click on "Osteon #1. Sketch the 5 osteons and haversian canals. Label Haversian canals (holes), matrix, and osteocytes (Bone cells)

### **2. ENDOCHONDRAL BONE FORMATION MHS 203 Bone**

- a. Click on **periosteum** (outer layer of bone) sketch it
- b. Click on **spongy bone**, just observe
- c. Click on **marrow cavity**, sketch it

Click on slide box and then select Electron Microscopy, select chapter 5 Cartilage and Bone

3. **BONE EM 215 Bone**

- a. Sketch what you see

4. **BONE EM 217 Osteon**

- a. sketch it and label the matrix and the canal