Bone Dissection Lab

Purpose: To familiarize the student with structures characteristic of a long bone.

Safety: Keep hands away from sharp instruments, and be sure to disinfect all surfaces and hands that come in contact with the bones. Place all trash in the designated container.

Materials:

Beef bone: epiphysis and diaphysis (saggital and cross sectioned) Dissecting instruments (scalpel, forceps) Dissecting tray Stereomicroscope

Procedure:

Examine a beef bone. Obtain one sample of each: diaphysis and epiphysis. Locate and identify the
following structures. (You may need to utilize more than one specimen in order to identify all the
structures needed.) Make a drawing or photograph and label the structures. Make a table and identify
the functions of each structure.

30.7	Articular cartilage	f.	Medullary Cavity
b.,	Spongy Bone		g. Periosteum
C.	Compact Bone		h, Bone Marrow
d.	Diaphysis	8.	Epiphysis
· e.	Endosteum	30	Epiphyseal cartilage (plate)

2. With your forceps and scalpel, remove a small portion of the periosteum from the bone's diaphysis. Note how difficult or easy it is to remove the periosteum. Observe the tissue under a stereomicroscope and identify blood vessels within this structure. Describe your observations.

Look at the surface layer of a saggital section of a diaphysis, with the periosteum removed, and see if you notice any elevations, depressions, or openings into the bone. Explain the purpose of these surface markings.

4. Observe the marrow cavity of a cross section of a diaphysis by removing a small portion of the substance that fills it. Identify this substance and compare the texture of this substance as compared to the texture of the cavity that contains it. Describe your observations.

5. Observe a cross section of an epiphysis, reveal the superficial surface of the articular cartilage and compare how the superficial surface of a diaphysis compares to the surface of articular cartilage. Explain the significance of articular cartilage at a joint.

Return all bones to the trays and clean and dry all instruments and trays. Be sure to wash your hands with antibacterial soap, and disinfect all table surfaces.

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Bone Dissection Lab Answer Key

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Bone Dissection Lab Answer Key:

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