

EXERCISE 9 – OVERVIEW OF BONES AND CARTILAGES

OBJECTIVES

1. To list the two divisions of the skeletal system.
2. To differentiate between compact and spongy bones.
3. To identify the bone shapes and name examples of bones representative of shapes.
4. To identify the major regions and structures of a long bone.
5. To explain the role of the inorganic salts and organic matrix in providing flexibility and hardness to bone.
6. To locate and identify the three major types of cartilages.

NOTES:

I. Divisions of the skeletal system:

- axial
- appendicular

II. Types of osseous tissue:

- compact
- spongy (cancellous)

III. Bone markings:

will be described in details in next 2 bone exercises

IV. Shapes of bones:

- long
- short
- flat
- irregular
- sesamoid

ACTIVITY 1: GROSS ANATOMY OF A LONG BONE

Identify:

- medullary cavity and bone marrow
- diaphysis vs. epiphysis
- endosteum vs. periosteum
- cancellous vs. compact bone tissue

ACTIVITY 2: EFFECTS OF HEAT AND ACID ON BONES - DEMO

Compare the chicken bones placed in 3 different environments.
WHY/HOW has each bone changed.

ACTIVITY 3: MICROSCOPIC STRUCTURE OF COMPACT BONE

Identify Haversian system (osteon):

- osteocytes
- lacunae
- canaliculi
- lamellae
- central canal

ACTIVITY 4: CARTILAGES (review EXERCISE 6)

Locate and identify 3 kinds, locations, functions

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