

UNIT 4 - SKELETAL SYSTEM

STANDARDS AND OBJECTIVES

STANDARD

04 Students will describe the structures and functions of the skeletal system and its components.

OBJECTIVES

- 04.01 Identify the general functions of the skeletal system.
- 04.02 Identify the roles of the osteoblasts, osteocytes, and osteoclasts in bone growth and ossification.
- 04.03 Describe the features of a long bone.
(periosteum, diaphysis, epiphysis, medullary cavity, red marrow, yellow marrow, articular cartilage, endosteum, compact bone, spongy bone)
- 04.04 Identify the four shapes of bones with characteristics and examples of each.
(long, short, flat, irregular)
- 04.05 Describe and locate the following bone markings.
(foramen, meatus, sinus, fossa, condyle, tuberosity, trochanter, tubercle, process)
- 04.06 Describe the terms “suture” and “fontanel”.
- 04.07 Contrast the axial and appendicular skeletons.
- 04.08 Locate the following skull bones.
(mandible, maxilla, zygomatic, frontal, parietal, occipital, sphenoid, ethmoid, hyoid, temporal, mastoid process)
- 04.09 Contrast the average number, location and function of each of the five groups of vertebrae.
- 04.10 Explain the structural classifications of articulations.
(fibrous, synovial & cartilaginous)
- 04.11 Differentiate between ligaments and tendons.
- 04.12 Identify the following diseases or disorders of the skeletal system.
(herniated disk, osteoarthritis, osteoporosis, scoliosis, spina bifida)