

8

Skeletal System

Answer Key: Textbook page references are provided as a guide for answering these questions. A complete answer key was provided for your instructor.

OBJECTIVES

1. List the functions of the skeletal system and the classification of bones by size and shape.
2. Differentiate between the composition and location of compact and spongy bone.
3. Describe the structure of a long bone.
4. Describe the roles of osteoblasts and osteoclasts and how bones grow in length and width.
5. List the bones of the axial skeleton, and label important landmarks on selected bones.
6. List the bones of the appendicular skeleton, and label important landmarks on selected bones.
7. List the main types and functions of joints, and describe the types of joint movements.

Part I: Mastering the Basics**MATCHING****Long Bone**

Directions: Match the following terms to the most appropriate definition by writing the correct letter in the space provided. See text, pp. 115-118.

- | | |
|---------------------|------------------------|
| A. osteocyte | I. epiphyseal disc |
| B. osteoblast | J. endosteum |
| C. red bone marrow | K. osteoclast |
| D. compact bone | L. medullary cavity |
| E. spongy bone | M. periosteum |
| F. haversian system | N. epiphysis |
| G. trabeculae | O. articular cartilage |
| H. diaphysis | |

1. D Dense, hard type of bone
2. G Bony plates found in spongy bone
3. I Band of hyaline cartilage at ends of long bone; longitudinal bone growth occurs here.
4. M Tough outer connective tissue covering the diaphysis of a long bone
5. L Hollow center of the shaft of a bone
6. O Found on the outer surface of the epiphysis at a joint

7. F Microscopic unit of compact bone; also called an osteon
8. A Mature bone cell
9. J Inner lining of the medullary cavity of a long bone
10. H The shaft of a long bone
11. C Site of blood cell formation
12. K Eroding activity of this cell remodels and expands the medullary cavity.
13. B A bone-building cell
14. N Cancellous bone
15. Z The enlarged end of a long bone
16. E This type of bone has a punched-out or "Swiss cheese" appearance.
17. I Called the growth plate
18. K This cell is responsible for bone resorption.

MATCHING**Skull**

Directions: Match the following terms to the most appropriate definition by writing the correct letter in the space provided. Some terms may be used more than once. See text, pp. 120-125.

- | | |
|-----------------------------|--------------------|
| A. maxilla | G. occipital |
| B. mandible | H. sphenoid |
| C. palatine bones | I. zygomatic bones |
| D. frontal | J. temporal |
| E. parietal | K. ethmoid |
| F. external auditory meatus | L. fontanel |

1. B Lower jaw bone; contains the lower teeth
2. F Opening in the temporal bone for the ear
3. A Upper jaw bone; contains the upper teeth
4. H Cheekbones; also form part of the orbits of the eyes
5. E Forms the top and sides of the skull
6. K Forms the bony structure of the nasal cavity

Chapter 8 Skeletal System Answers

Guillaume Favre



Chapter 8 Skeletal System Answers:

Chapter 8 Skeletal System Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year.

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These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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