

BIOL 2113 - Chapter 6: Bone Tissue and Skeletal System Study Guide

Topic	Explanation
Describe the functions of the skeletal system.	The skeletal system supports the body serving as a scaffold, facilitates movement by serving as points of attachment for the muscles, protects the internal organs by surrounding them, stores, and releases minerals (calcium and phosphorus) and for fat storage and blood cell production. 2 types of bone marrow: yellow marrow - contains adipose tissue; triglycerides stored in adipocytes can serve as source of energy. Red marrow - where hematopoiesis (production of red blood cells) takes place. RBC, WBC, and platelets all produced in red marrow.
Describe the categories of bone classification (include examples)	1. Long bones – CYLINDRICAL (LONGER THAN IS WIDE) Function: levers; move when muscles contract. EX: in the arms (humerus, ulna, radius), legs (femur, tibia, fibula), fingers/toes (metacarpals/metatarsals, phalanges) 2. Short bones – CUBE LIKE (EQUAL LENGTH/WIDTH/THICKNESS) Function: provide stability and support and some limited motion. EX: in the wrists/ankles (carpals/tarsals) 3. Flat bones – THIN AND CURVED Function: serves as points of attachment for muscles and often protects internal organs. EX: skull, scapulae, sternum, and ribs. 4. Irregular bones – COMPLEX SHAPE Function: protect internal organs. EX: vertebrae, facial bones 5. Sesamoid bones – SMALL AND ROUND Form in the tendons. Function: protects tendons from compressive forces. EX: patellae
Define the terms related to bone anatomy.	Diaphysis – tubular shaft that runs between the proximal and distal ends of the bone. Walls are composed of dense and hard compact bone. Epiphysis – wider section at each end of the bone made up of spongy bone filled with red marrow. Metaphysis – narrow area that contains the epiphyseal plate where the epiphysis and diaphysis meet. Medullary cavity – hollow region in the diaphysis filled with yellow marrow. Epiphyseal plate – Growth plate. Layer of hyaline (transparent) cartilage in growing bone. Epiphyseal line – what the epiphyseal plate becomes once the bones stop growing in early adulthood. Endosteum – delicate, membranous lining of the medullary cavity where bone growth, repair, and remodeling occur. Periosteum – fibrous membrane covering the outside of the surface except where joints form. Contains blood vessels, nerves, and lymphatic vessels that nourish compact bone. Where tendons and ligaments attach to the bones.

Study Guide For Biology 2113

**Edmo Atique Gabriel, Sthefano Atique
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