

MUSCULOSKELETAL SYSTEM

Skeletal + Muscular systems are considered one because they work together to enable us to move

- ✓ Skeletal framework gives us support and it is what the muscles are attached to, joints are the articulations between bones
- ✓ Muscle contraction pulls the bone and changes the angle of the joint
- ✓ Movement relies on the functioning of the nervous, circulatory, and respiratory systems (1) need nerve impulses to contract muscles, (2) blood supply from circulatory system, (3) oxygen from resp. system

Tissues	Functions	Bone	Effects of Aging
OF SKELETAL system: 1. Bone 2. Cartilage - covers most of joints 3. Fibrous connective tissue - ligaments that connect one bone to another OF MUSCULAR system: 1. Skeletal muscle is striated, meaning that it can be voluntarily controlled 2. Fibrous connective tissue forms tendons - tendons connect muscle to bone 3. Fascia - band or sheet of connective tissue, primarily collagen, beneath the skin that attaches, stabilizes, encloses, and separates muscles and other internal organs voluntary skeletal muscle involuntary cardiac muscle involuntary smooth muscle	OF SKELETAL system: 1. Movement 2. Mineral storage 3. Produces blood cells in bone marrow 4. Protection (brain, heart, lungs) 5. Support 6. Stores and releases fat OF MUSCULAR system: 1. Heat 2. Energy 3. Movement Protects internal organs Protects internal organs Produces blood cells Stores and releases minerals Facilitates movement Supports the body	Bone Formation ✓ Osteoblasts ○ Cells that form new bone ✓ Osteocytes ○ Mature bone cell that turns over bone mineral and assists in repair ○ Remodeling & repair ✓ Osteoclasts ○ Secretes acids and enzymes to dissolve/break down bone matrix Bone Marrow: ✓ Red ○ Manufactures blood cells and hemoglobin ○ Produces RBC's, WBC's, platelets ○ Occurs inside spongy bones ○ Gets its red color due to the hemoglobin present in the RBC's ○ Occurs in the skull, ribs, spine, shoulder blades, pelvis, end of long bones ✓ Yellow ○ Primarily contains fat cells and connective tissue ○ Occurs inside compact bones ○ Produces fat cells, cartilage, bones ○ Produces blood cells when needed ○ Occurs in the marrow cavity of long bones ○ Gradually replaces the red bone marrow as people grow older	✓ Calcium in bones is dependent on good nutrition & age ○ estrogen & testosterone maintain strong bone ○ women after menopause lose more calcium than is replaced, so they need to take calcium supplements ✓ Weight-bearing joints are subject to damage ○ Knees, ankles, hips ○ Cartilage wears down, which causes pain & stiffness ✓ Muscle strength declines Infant Child Adult Older adult

Musculoskeletal System Physiology Study Guide

Kevin T. Patton, Victoria Schauf



Musculoskeletal System Physiology Study Guide:

Study Guide for The Anatomy and Physiology Learning System Edith Applegate, 2010-03-30 Designed to accompany The Anatomy and Physiology Learning System 4th Edition by Edith Applegate this study guide helps you learn and review basic A P concepts Each chapter emphasizes medical terminology with a set of key terms word parts clinical terms and abbreviations and then adds a variety of fun filled learning exercises review questions a quiz and a word puzzle The study guide corresponds to the textbook chapter for chapter Chapter learning objectives help you focus on the most important material Key concepts are defined on the first page of each chapter in the workbook Learning exercises for each chapter include short answer matching and diagrams to label and color Self quizzes allow you to measure your progress and understanding Fun and Games features end each chapter with a variety of engaging puzzles covering words and concepts A chapter summary provides a brief review of each chapter A chapter review provides questions for reinforcement and review of the concepts in each chapter *Anatomy and Physiology Study Guide* Patrick Leonardi, 2002-02-01 This test preparation study guide is the best in the industry It is designed for students of college anatomy and physiology It is very thorough specific and complete for each topic **Study Guide for Medical-Surgical Nursing - E-Book** Donna D.

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Study Guide to Accompany Human Physiology Kevin T. Patton, Victoria Schauf, 1989-12

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