

SKELETAL SYSTEM: BONES & JOINTS

BONES

AXIAL
APPENDICULAR
SPONGY BONE
COMPACT BONE

LIGAMENTS
TENDONS

FUNCTION OF BONES(5)

TYPES OF BONES (4)

LONG BONE
FLAT BONE
IRREGULAR BONE
SHORT BONE

JOINTS = ARTICULATIONS

SYNDYAL joints
HINGE JOINT
BALL & SOCKET
GLIDING / PLANE
CONDYLOID
PIVOT

JOINT MOVEMENT

FLEXION
EXTENSION
ADDUCTION
ABDUCTION
ROTATION
ELEVATION
DEPRESSION
SUPINATION
PRONATION
INVERSION
EVERSION
DORSIFLEXION
PLANTAR FLEXION
CIRCUMDUCTION

206 BONES

AXIAL

- SKULL
- Rib pair 1-12
- VERTEBRAL COLUMN

CONNECTS BONE TO BONE
ATTACH MUSCLE TO BONE

FUNCTION OF BONES

- FORM & STRUCTURE
- PROTECTION & SUPPORT
- LEVERS FOR MOVEMENT
- HEMOPOLYSIS
- STORE MINERALS (CALCIUM & PHOSPHORUS) & ENERGY RESERVES

DYNAMIC!

- longer than width (FEMUR, HUMERUS, RADIUS, ULNA, TIBIA, FIBULA)
- "FLAT" (PARIETALS, OCCIPITAL, PTERION, NASAL)
- "IRREGULARLY" shaped (CLAVICLE & COMPLEX SHAPES (VERTEBRAL, COXA, PELVIS))
- about as long as they are wide (CARPALS, METACARPALS, PATELLA)
- irregular (PATELLA "KNEECAP")
- they grow, send in tendrils of new matter

PLACE OF CONTACT BETWEEN BONES

DIAPHRYSE

HINGE joint

- uniaxial
- elbow
- knee

BALL-and-SOCKET

- multiaxial
- hip joint
- shoulder joint
- 3 planes

PLANE / GLIDING

- uniaxial
- carpal bones
- navicular of foot
- vertebrae
- acromioclavicular joint

CONDYLOID

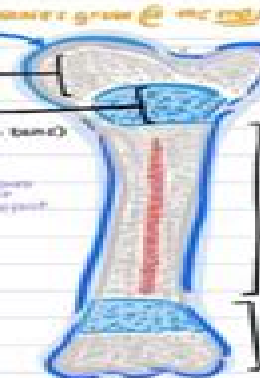
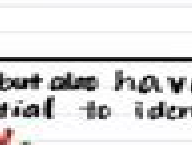
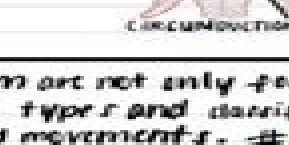
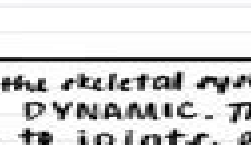
- biaxial
- scapula humerus
- metacarpals
- metatarsals

PIVOT

- uniaxial
- around the longitudinal axis
- condylar head
- rotating "gear head" "nut"

SADDLE joint

- biaxial
- ONLY true saddle joint is the CARPOMETACARPAL joint (THUMB)



SUMMARY: Bones of the skeletal system are not only for form and structure but also have functions that make them DYNAMIC. The types and classification of bones are essential to identify and understand its connections to joints, and movements. #SHAPE determines FUNCTION.

Anatomy Bone Study Guide

Charles Miller



Anatomy Bone 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

Student Notebook and Study Guide to Accompany The Human Body Bruce Wingerd, Patty Bostwick Taylor, 2013-02-01 This Student Notebook and Study Guide the ideal companion to Bruce Wingerd s The Human Body reinvents the traditional study guide by giving students a tool to help grasp information in class and reinforce learning outside of class Too often students struggle to both learn the concepts presented and simultaneously record crucial information The Student Notebook and Study Guide provides a structure for recording in class material that parallels the text s concept presentation and includes supplemental questions and activities for assignment outside of the classroom A complete answer guide for both the in class and out of class materials is available online

ATI TEAS 7 Study Guide Calvin Yates, Are you ready to take the first step toward your nursing career but unsure where to start with preparing for the ATI TEAS 7 exam This comprehensive guide is designed to help you not only understand the structure of the exam but to excel in every section Whether you re a first time test taker or someone looking to improve their score this book offers you the tools and strategies necessary to tackle this critical hurdle in your nursing school application process The ATI TEAS 7 exam is an essential part of your nursing journey assessing your proficiency in key areas such as Reading Mathematics Science and English and Language Usage With detailed explanations test taking strategies and hundreds of practice questions this book offers more than just content review It provides a roadmap for effective studying helping you organize your time and focus on the areas that matter most Inside you ll find a deep dive into each subject area The Reading section teaches you how to improve your comprehension skills identify key details and interpret complex passages The Mathematics section covers everything from basic arithmetic to more advanced concepts like algebra and geometry with strategies to solve problems quickly and accurately In the Science section you ll explore human anatomy biology chemistry and scientific reasoning breaking down complex topics into understandable chunks The English and Language Usage section focuses on grammar sentence structure and vocabulary ensuring you can clearly communicate ideas and effectively navigate language

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Study Guide [to] Fundamentals of Anatomy & Physiology, 6th Ed. [by] Frederic H. Martini Charles M. Seiger, 2004 by Charles Seiger This very popular Study Guide is an excellent way to review basic facts and concepts as well as to develop problem solving skills A variety of questions including labeling and concept mapping are keyed to every learning objective in the textbook and are organized around the same 3 level learning system

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