

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

→ Cervical, Thoracic, Lumbar, Sacral, Coccygeal vertebrae

APPENDICULAR

- UPPER & LOWER EXTREMITIES
- humerus, radius, ulna, scapula, clavicle, carpals, metacarpals, phalanges
- femur, tibia, fibula, patella, tarsals, metatarsals, phalanges

- 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, FRONTAL, NASAL)
- "IRREGULARLY" shaped (CLAVICLE & COMPLEX SHAPES (VERTEBRAL, Ribs, COCCYX))
- about as long as they are wide (CARPALS, METACARPALS, PATELLA)
- **irregular (many small bones) "PATELLA" (kneecap)**
- they grow, send in tendrils of new matter.

→ PLACE OF CONTACT BETWEEN BONES

→ **PHANTOMIES** - partly movable

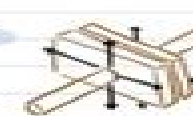
HINGE joint

- (uniaxial)
- elbow
- knee



BALL-and-SOCKET

- (multiaxial)
- hip joint
- shoulder joint
- 3 planes



PLANE / GUIDING

- (multiaxial)
- carpals, tarsals
- facets of vertebrae
- wrist
- ankle



CONDYLOID

- (biaxial)
- between carpal and metacarpals
- between radius and ulna



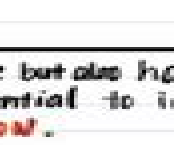
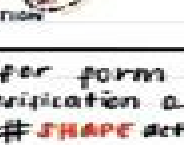
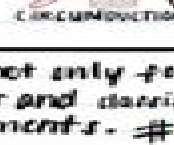
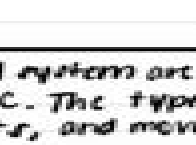
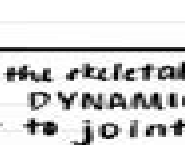
PIVOT

- (uniaxial)
- around the longitudinal axis
- cervical vertebrae
- "twisting your head" "no"



SADDLE joint

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



FOR FEET

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 And Physiology Study Guide Bones

Kevin T. Patton



Anatomy And Physiology Study Guide Bones:

This book delves into Anatomy And Physiology Study Guide Bones. Anatomy And Physiology Study Guide Bones is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Anatomy And Physiology Study Guide Bones, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Anatomy And Physiology Study Guide Bones
- Chapter 2: Essential Elements of Anatomy And Physiology Study Guide Bones
- Chapter 3: Anatomy And Physiology Study Guide Bones in Everyday Life
- Chapter 4: Anatomy And Physiology Study Guide Bones in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Anatomy And Physiology Study Guide Bones. The first chapter will explore what Anatomy And Physiology Study Guide Bones is, why Anatomy And Physiology Study Guide Bones is vital, and how to effectively learn about Anatomy And Physiology Study Guide Bones.
3. In chapter 2, this book will delve into the foundational concepts of Anatomy And Physiology Study Guide Bones. The second chapter will elucidate the essential principles that must be understood to grasp Anatomy And Physiology Study Guide Bones in its entirety.
4. In chapter 3, this book will examine the practical applications of Anatomy And Physiology Study Guide Bones in daily life. The third chapter will showcase real-world examples of how Anatomy And Physiology Study Guide Bones can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Anatomy And Physiology Study Guide Bones in specific contexts. This chapter will explore how Anatomy And Physiology Study Guide Bones is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Anatomy And Physiology Study Guide Bones. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Anatomy And Physiology Study Guide Bones.

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