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Anatomy and Physiology Unit 1 Topics and Vocab

Chapters 1, 3, and 5

**Topics:**

Introduction to anatomy and physiology – Chapter 1

Cells- Chapter 3

Tissues – Chapter 5

**Vocab/Concepts:**

Chapter 1

Anatomy

Physiology

Levels of organization

Metabolism

Characteristics of life

Requirements of organisms

Homeostasis

Homeostatic mechanisms

Receptors

Set point

Effectors

Negative feedback

Axial

Appendicular

Cranial cavity

Vertebral cavity

Thoracic cavity

Viscera

Diaphragm

Mediastinum

Abdominal cavity

Pelvic cavity

Parietal

Visceral

Pleural membranes

Pericardial membranes

Peritoneal membranes

Superior

Inferior

Anterior

Posterior

Medial

Lateral

Proximal

Distal

Superficial

Deep

Sagittal section

Transverse section

Coronal section

Chapter 3

Cell membrane

Nucleus

Cytoplasm

Organelles

Endoplasmic reticulum

Ribosomes

Golgi apparatus

Mitochondria

Lysosomes

Peroxisomes

Cilia

Flagella

Chromatin / chromosomes

Differentiation

Stem cells

Chapter 5

Tissue

Epithelial tissue

Connective tissue

Muscle tissue

Nervous tissue

Simple

Stratified

Cuboidal (shape)

Squamous (shape)

Columnar (shape)

Simple squamous

Stratified squamous

Simple cuboidal

Stratified cuboidal

Simple columnar

Pseudostratified columnar

Stratified columnar

Extracellular Matrix (ECM)

Fibroblasts

Macrophages

Mast cells

Collagenous fibers (collagen)

Elastic fibers (elastin)

Loose connective tissue

Areolar tissue

Adipose tissue

Reticular connective tissue

Dense connective tissue

Cartilage

Hyaline cartilage

Elastic cartilage

Fibrocartilage

Bone

Blood

Other: