

# ANATOMY AND PHYSIOLOGY

23 PAGES GUIDE

## Visual learner Notes

**Introduction to Anatomy and Physiology**

|           |                    |
|-----------|--------------------|
| Structure | Function           |
| Cell      | Basic unit of life |
| Organ     | Group of tissues   |
| System    | Group of organs    |
| Organism  | Whole body         |

**Levels of Organization**

|          |          |            |
|----------|----------|------------|
| Chemical | Atomic   | Molecular  |
| Cell     | Tissue   | Organ      |
| System   | Organism | Population |

**Homeostasis**

|                       |               |                       |                      |                  |
|-----------------------|---------------|-----------------------|----------------------|------------------|
| Stimulus              | Receptor      | Control Center        | Effector             | Response         |
| Change in environment | Senses change | Processes information | Carries out response | Restores balance |

**Cell Structure**

|                    |                       |
|--------------------|-----------------------|
| Prokaryotic        | Eukaryotic            |
| No nucleus         | Has nucleus           |
| Single compartment | Multiple compartments |

**Cellular Processes**

|           |         |                  |
|-----------|---------|------------------|
| Diffusion | Osmosis | Active Transport |
| Passive   | Passive | Requires energy  |

**Connective Tissues**

|                 |            |           |                   |
|-----------------|------------|-----------|-------------------|
| Epithelial      | Connective | Muscle    | Nerve             |
| Covers surfaces | Supports   | Contracts | Transmits signals |

**Integumentary System**

|          |           |          |
|----------|-----------|----------|
| Skin     | Hair      | Nails    |
| Protects | Insulates | Protects |

**Cardiovascular System**

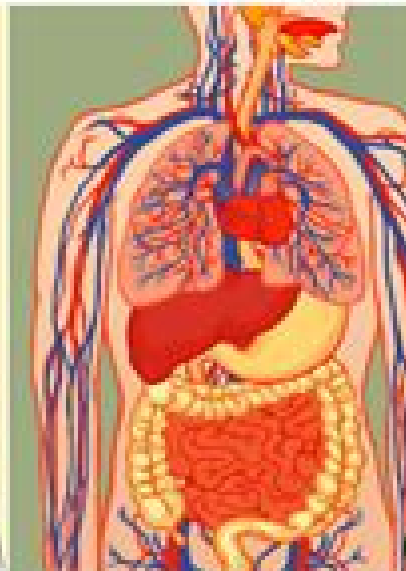
|       |               |         |
|-------|---------------|---------|
| Heart | Blood Vessels | Blood   |
| Pumps | Transports    | Carries |

**Muscular System**

|           |             |             |
|-----------|-------------|-------------|
| Skeletal  | Cardiac     | Smooth      |
| Voluntary | Involuntary | Involuntary |

**Nervous System**

|          |             |                   |
|----------|-------------|-------------------|
| Brain    | Spinal Cord | Peripheral Nerves |
| Controls | Relays      | Transmits         |



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| Structure | Function           |
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**Respiratory System**

|           |            |           |
|-----------|------------|-----------|
| Lungs     | Trachea    | Diaphragm |
| Exchanges | Transports | Contracts |

**Digestive System**

|            |         |            |
|------------|---------|------------|
| Esophagus  | Stomach | Intestines |
| Transports | Digests | Absorbs    |

**Excretory System**

|         |            |         |
|---------|------------|---------|
| Kidneys | Ureters    | Bladder |
| Filters | Transports | Stores  |

**Endocrine System**

|           |           |           |
|-----------|-----------|-----------|
| Pituitary | Thyroid   | Adrenal   |
| Regulates | Regulates | Regulates |

**Immune System**

|                   |            |             |
|-------------------|------------|-------------|
| White Blood Cells | Antibodies | Macrophages |
| Fight             | Attack     | Engulf      |

**Reproductive System**

|         |           |            |
|---------|-----------|------------|
| Ovaries | Uterus    | Vagina     |
| Produce | Incubates | Transports |

**Sensory System**

|      |      |       |
|------|------|-------|
| Eyes | Ears | Nose  |
| See  | Hear | Smell |

**Integumentary System**

|          |           |          |
|----------|-----------|----------|
| Skin     | Hair      | Nails    |
| Protects | Insulates | Protects |

# Human Anatomy Study Guide For Gce

**D Keegan**



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