The Human Body

Introduction
Humans are the most complex organisms on Earth. Our bodies are composed of trillions of **cells**, the smallest unit of life.

These cells work together to form **tissues**.
1. **Epithelial Tissue** – Covers **body surfaces**; lines **organs & vessels**. May contain **glands** for secretions or cells with **cilia**.

   - **Examples** includes glands, blood vessels, skin.
2. Connective Tissue – Is the most abundant tissue in the body. Used as connectors and for support, transport, and storage. Contains a network of non-living material called a matrix.

- Examples include blood, bone.
Types of Tissue

3. Muscle Tissue – Able to receive electrical signals and create force and movement.
4. **Nerve Tissue** – Specialized to generate and **transmit** electrical signals to **transfer information**.
These tissues work together as ________, which work together as ________.
Identify the Organ Systems

MUSCULAR
- Skeletal muscle
- Cardiac muscle
- Smooth muscle

SKELETAL
- Bones
- Cartilage

CIRCULATORY
- Heart
- Arteries
- Veins
- Capillaries

NERVOUS
- Brain
- Spinal Cord
- Peripheral nerves

LYMPHATIC/IMMUNE
- Lymph nodes
- Spleen
- Tonsils
- Thymus
Identify the Organ Systems

**RESPIRATORY**
- Lungs
- Trachea
- Diaphragm

**ENDOCRINE**
- Glands:
  - Pituitary
  - Adrenal
  - Thyroid
  - Testes
  - Ovaries
  - Pancreas

**DIGESTIVE**
- Esophagus
- Stomach
- Small Intestine
- Colon
- Pancreas
- Liver
- Gall Bladder

**EXCRETORY**
- Kidneys
- Bladder
- Sweat glands

**REPRODUCTIVE**
- Ovaries
- Testes
- Uterus
- Etc.