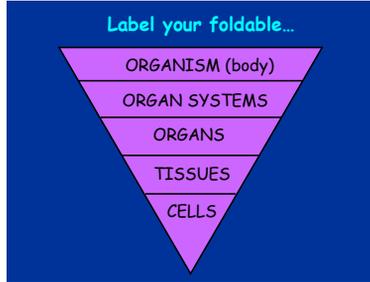


How are our bodies organized?

Introduction to the Human Body:



What are all living things made of?

> All living things are made of **CELLS!** (You have billions of cells inside you.)

> Cells have specialized jobs, and are **organized** in your body.

> For example, these **red blood cells** carry oxygen around your body in your blood.

How are cells organized?

> Complex living things are organized into 5 levels.

> Cells carry on the processes that keep us alive.

Examples:

- Red Blood Cells
- Muscle Cells
- Skin Cells

Cells are organized into TISSUES!

> A **TISSUE** is a group of similar cells that all do the same thing (they have the same function).

Examples:

- Muscle Tissue (Muscles)
- Nervous Tissue (Nerves)
- Connective Tissue (Bones)

A close up view of real muscle tissue

Tissues are organized into ORGANS!

> An **ORGAN** is a structure made of different tissues.

> The organ does a specific, complex job.

Examples:

- Heart
- Brain
- Stomach
- Lungs

Organs are organized into ORGAN SYSTEMS!

> An **ORGAN SYSTEM** is a group of organs that work together to perform a major job.

Examples:

- Circulatory System
- Digestive System
- Skeletal System

- Skeletal System:** Supports and protects the body
- Digestive System:** Breaks down food and absorbs nutrients
- Nervous System:** Carries information from the environment and controls body functions
- Circulatory System:** Transports materials to and from cells
- Excretory System:** Removes wastes
- Respiratory System:** Takes in oxygen and eliminates carbon dioxide

Organ Systems are organized into ORGANISMS!

> An **ORGANISM** is a living thing, with organ systems that work together to keep a body alive.

Examples: *Human Beings*

What is HOMEOSTASIS?

- HOMEOSTASIS is how your body maintains an INTERNAL BALANCE.
- It keeps your body STABLE in spite of changes OUTSIDE YOUR BODY.
- Example: Your body keeps **CONSTANT TEMPERATURE** no matter what the outside temperature.



How does your body maintain HOMEOSTASIS?

- When you are **TOO HOT**, your body **SWEATS** to keep you cool.



When you are **TOO COLD**, your body **SHIVERS** to keep you warm.

