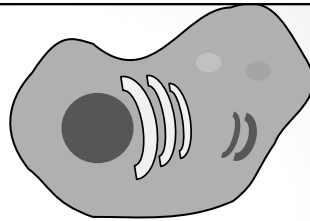


# \* Levels of Organization

7<sup>th</sup> Grade Science

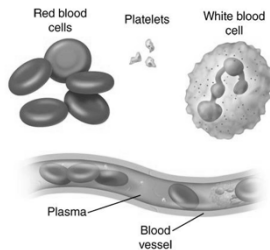
## CELLS



\*The microscopic unit of structure & function of all living things

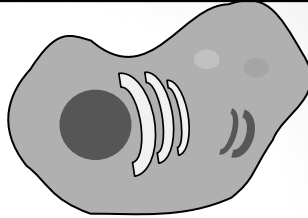
\*Most simple level of organization

\*Examples: Red Blood Cells, Nerve Cells



# \* Levels of Organization

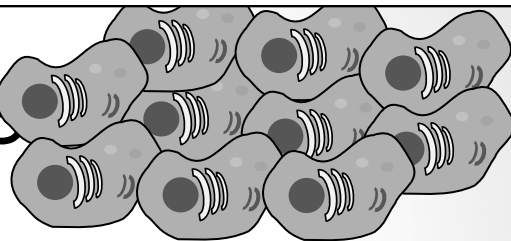
# TISSUES



- \*A group of cells connected together that all do the same thing
- \*Examples: muscle tissue, epithelial tissue, nervous tissue, & connective tissue

**\*Levels of Organization**

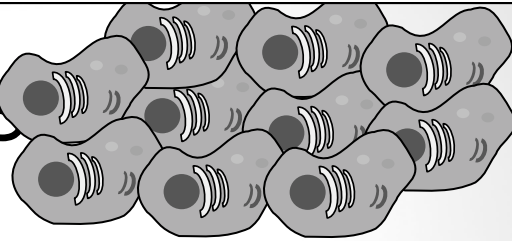
# TISSUES



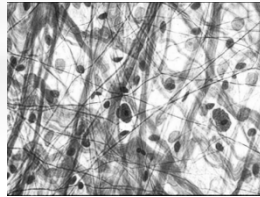
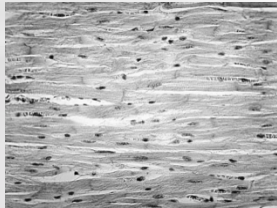
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# TISSUES

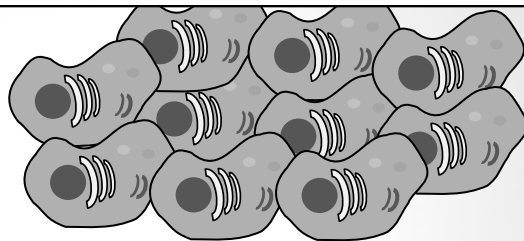


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**\*Levels of Organization**

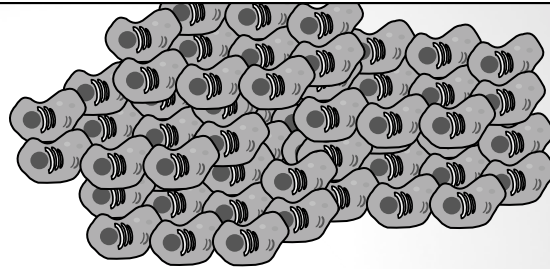
# OrganS



- \* A group of tissues layered together that all work together to do the same thing
- \* Examples: heart, liver, brain, skin

**\*Levels of Organization**

# OrganS

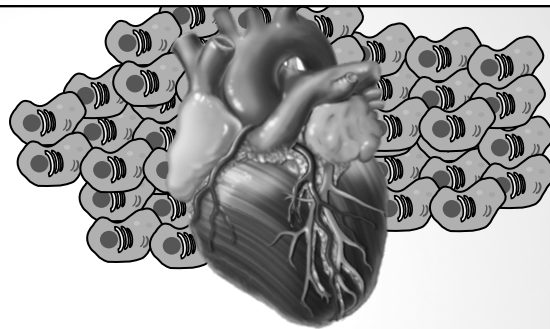


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**\*Levels of Organization**

# OrganS



\*A group of tissues layered together that all work together to do the same thing

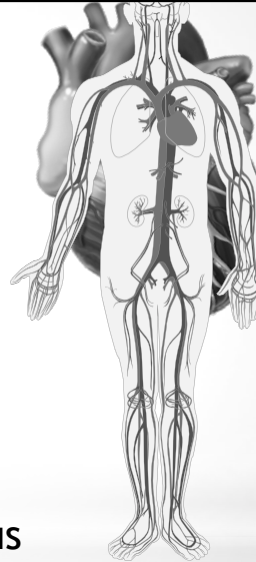
\*Examples: heart, liver, brain, skin



**\*Levels of Organization**

# Organ Systems

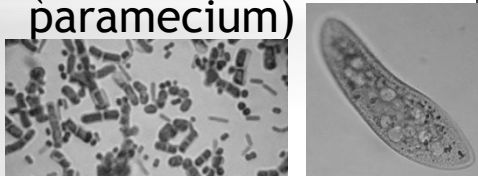
- \* A group of organs that work together to perform certain functions
- \* Examples: circulatory system (blood, heart, lungs, etc.) and nervous system (brain, nerves, spinal cord, etc.)



\*Levels of Organization

# Organisms

- \* A living thing that can carry out all life processes
- \* Most complex level of organization
- \* Some organisms are made of only one cell (like bacteria & paramecium)



\*Levels of Organization

**A cell, tissue, organ, system, or organism?**



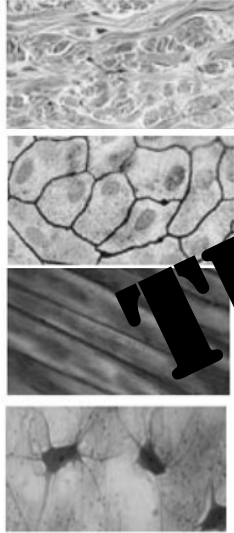
- **Found:** the stomach is part of the digestive tract in many animals
- **Function:** to break down food, and store it to later be absorbed by the intestines

**A cell, tissue, organ, system, or organism?**



- **Found:** the circulatory system is in the human body as well as many other organisms
- **Function:** It transports oxygen and sugar to all cells within the body

## A cell, tissue, organ, system, or organism?

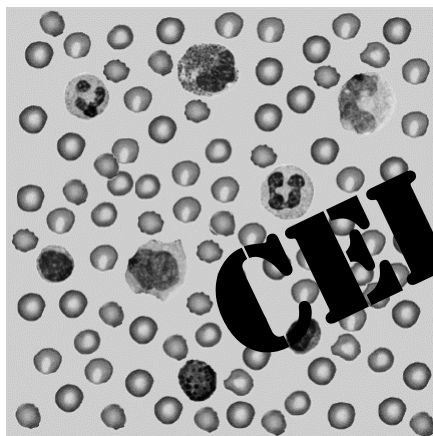


- **Found:** These are various layers of cells found inside the human body

\*epithelial  
\*nervous  
\*muscle  
\*connective

- **Function:** Each of these has its own function, what do you think they are?

## A cell, tissue, organ, system, or organism?



- **Found:** these are different types of red and white blood cells found in our blood

**Function:** red blood cells transport oxygen to other body parts, white blood cells fight off diseases

- **What level is our blood?**



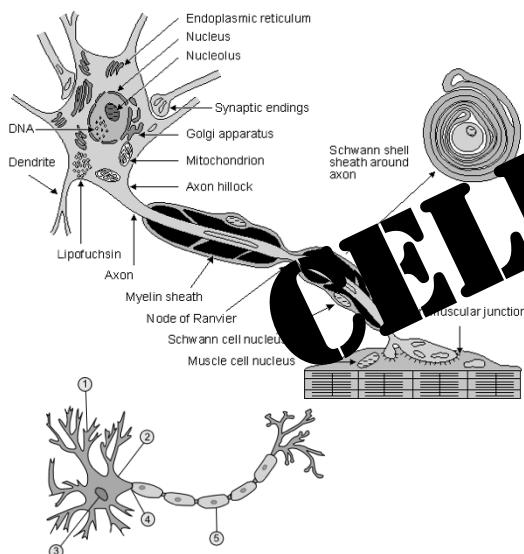
**A cell, tissue, organ, system, or organism?**



- Found in China

- **Function:** to live and survive in the wild

**A cell, tissue, organ, system, or organism?**

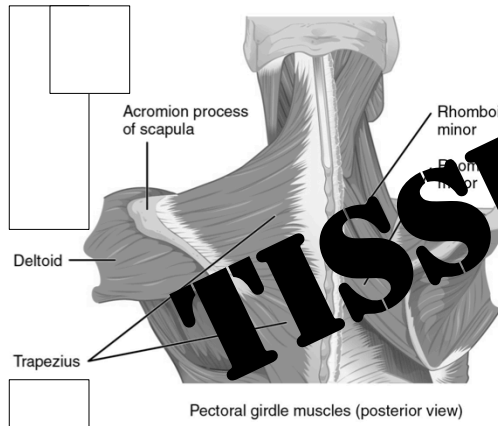


- **Found:** in our brain, our nervous tissue is made up of millions of these

- **Function:** neurons transmit signals to body parts to tell them what to do



## A cell, tissue, organ, system, or organism?



- **Found:** All over our bodies

**Function:** muscles help us to move, pump blood, and support our skeleton

## A cell, tissue, organ, system, or organism?



- **Found:** paramecia are found in pond water

• **Function:** to live and survive in their environment

**A cell, tissue, organ, system, or organism?**



- **Found:** Found in many animals as part of the nervous system
- **Function:** sends and receives signals throughout the body