

Cells and Systems

Central concept: **Living Things**

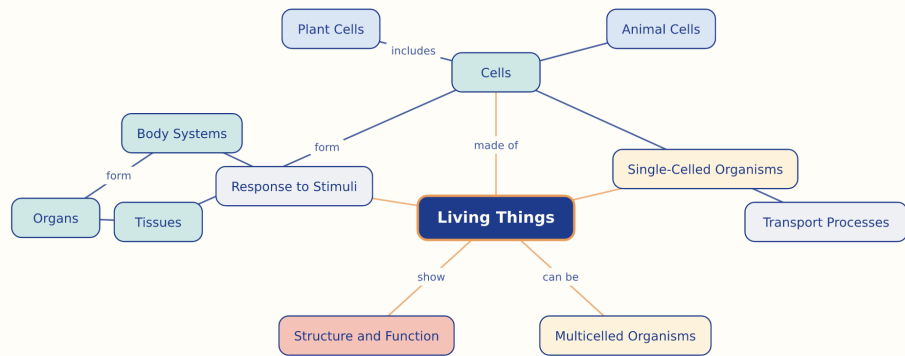
Connections

- Living Things (made of) -> Cells
- Cells (form) -> Tissues
- Tissues (form) -> Organs
- Organs (form) -> Body Systems
- Cells (includes) -> Plant Cells
- Cells (includes) -> Animal Cells
- Living Things (can be) -> Single-Celled Organisms
- Living Things (can be) -> Multicelled Organisms
- Living Things (show) -> Structure and Function
- Cells (undergo) -> Transport Processes
- Body Systems (enable) -> Response to Stimuli
- Living Things (display) -> Response to Stimuli

Notes

- **Living Things**: Organisms with diverse structures and functions that respond to their environment [Topic](#)
- **Cells**: Basic unit of life; all living things are made of cells [Outcome](#)
- **Tissues**: Groups of similar cells that work together to perform a function [Outcome](#)
- **Organs**: Structures made of tissues that perform specific functions in the body [Outcome](#)
- **Body Systems**: Groups of organs working together for major functions like respiration and circulation [Outcome](#)
- **Plant Cells**: Cells with cell walls and other structures distinct from animal cells [Outcome](#)
- **Animal Cells**: Cells with cell membranes but no cell walls [Outcome](#)
- **Single-Celled Organisms**: Living things made of one cell that performs all life functions [Outcome](#)
- **Multicelled Organisms**: Living things made of many cells working together in organized systems [Outcome](#)
- **Structure and Function**: How an organism's parts are designed to perform specific roles [Outcome](#)
- **Transport Processes**: Movement of gases and liquids into and out of cells through diffusion and osmosis [Outcome](#)
- **Response to Stimuli**: How organisms and body systems react to internal and external changes [Outcome](#)

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■ Central concept ■ Organization ■ Cell Types ■ Organism Types ■ Concepts ■ Processes

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