

Cells and Systems

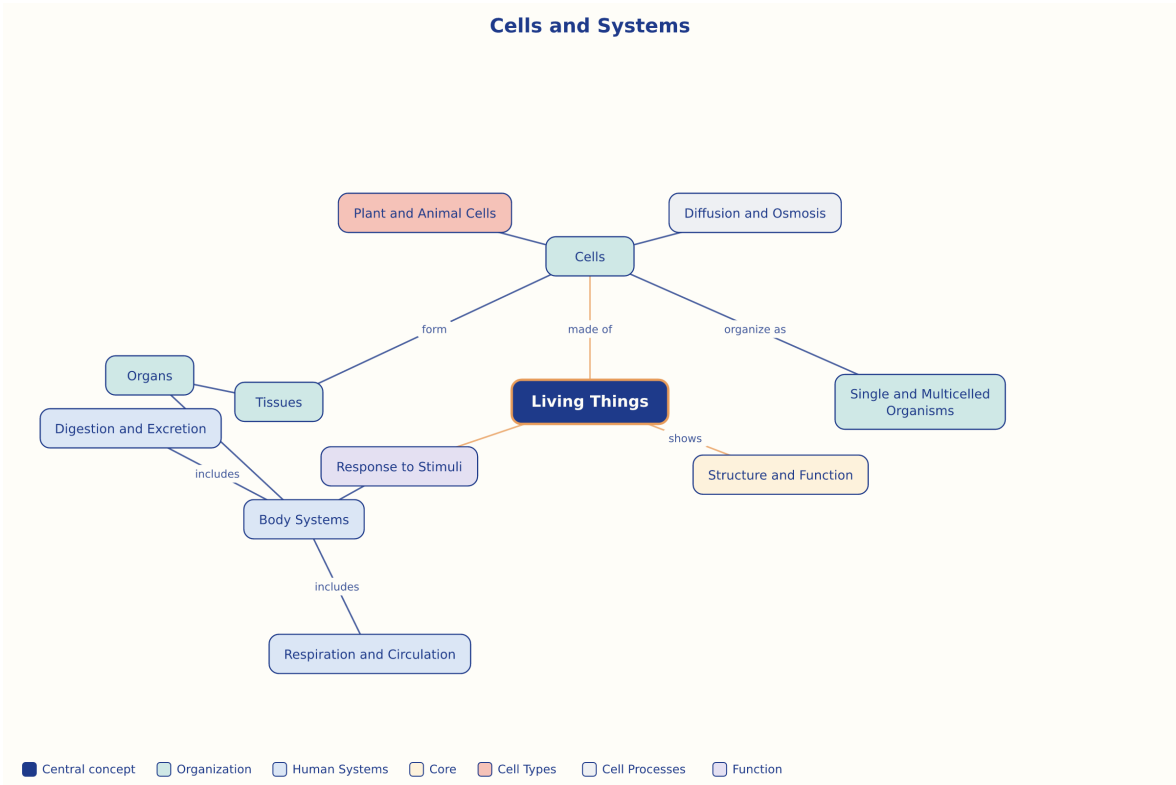
Central concept: **Living Things**

Connections

- Living Things (made of) -> Cells
- Living Things (shows) -> Structure and Function
- Living Things (displays) -> Response to Stimuli
- Cells (form) -> Tissues
- Cells (types include) -> Plant and Animal Cells
- Cells (undergo) -> Diffusion and Osmosis
- Cells (organize as) -> Single and Multicelled Organisms
- Tissues (form) -> Organs
- Organs (make up) -> Body Systems
- Body Systems (includes) -> Respiration and Circulation
- Body Systems (includes) -> Digestion and Excretion
- Body Systems (enables) -> 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](#), [Outcome](#)
- **Tissues**: Groups of similar cells working together to perform a function [Outcome](#), [Outcome](#)
- **Organs**: Structures made of different tissues that work together for a specific function [Outcome](#), [Outcome](#)
- **Body Systems**: Groups of organs working together to perform major functions in the body [Outcome](#)
- **Structure and Function**: How an organism's physical form relates to what it does [Outcome](#), [Outcome](#)
- **Plant and Animal Cells**: Plant cells have cell walls and animal cells have cell membranes [Outcome](#), [Outcome](#)
- **Single and Multicelled Organisms**: Single-celled organisms like amoebas versus multicelled organisms like bears and trees [Outcome](#), [Outcome](#)
- **Diffusion and Osmosis**: Movement of gases and liquids into and out of cells based on concentration differences [Outcome](#), [Outcome](#)
- **Respiration and Circulation**: Systems that exchange oxygen and carbon dioxide and carry oxygen and nutrients throughout the body [Outcome](#)
- **Digestion and Excretion**: Systems that break down food and remove waste from the body [Outcome](#)
- **Response to Stimuli**: How organisms react to changes in their internal and external environment [Outcome](#)



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