



Levels of Organization

Edpuzzle Notes

Levels of organization in multicellular organisms

• Organelles → cells → Tissues → organs → organ systems → organisms

• Organelles ('subcellular structures'): make up the cell

* Examples...

* Nucleus

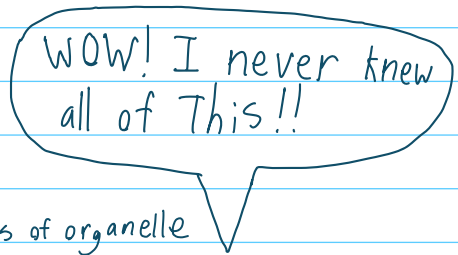
* Ribosomes

* Mitochondria

• cells are made of organelles

• cells are the basic building blocks for life

• cells come in all sorts of shapes & sizes w/ all sorts of organelle



Combination

* Examples...

* Epithelial

* Muscle

* Glandular

• multiple cells make up tissues

• Tissues are a group of similar cells working together to carry out a particular function

• Examples...

* Epithelial tissue - covers the body's surface

* Muscle tissue - contracts and relaxes

* Glandular tissue - makes and secretes chemicals

• Organs are a group of different tissues that work together to perform a particular function

• Examples...

* Stomach

* Pancreas

* Liver

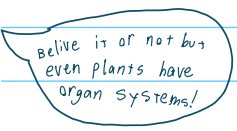
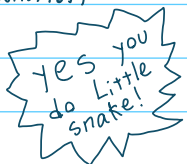
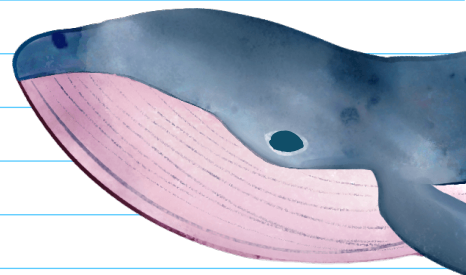
• Organ systems are a group of organs that work together to perform a particular function

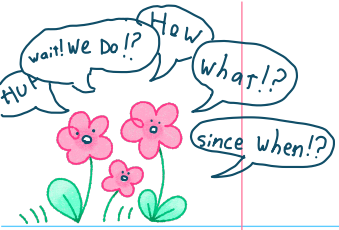
• Examples...

• Cardiovascular system

• Digestive system

• Reproductive system





- The organism has...
- * multiple organ systems working together to form the organism

