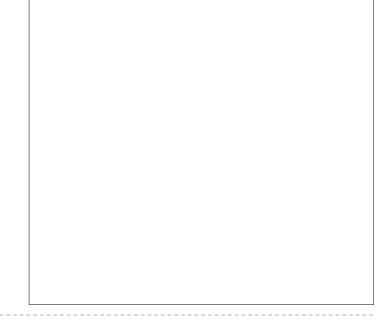
Cell Specialization

Jazzmin Oate Ridge Road MS

Brain Pop! Cell Specialization

http://www.brainpop.com/health/geneticsgrowthanddevel opment/cellspecialization/





Video Questions (Page 123) Leave space to answer

- What kinds of things do complicated creatures (people, cats, dogs) do that simple-one celled organisms can't do? What things are similar?
- Describe a sponge.
- 3. What is tissue?
- 4. What forms an organ?
- 5. Name the organs of the human digestive system.



Cells, Tissues, Organs, Organ Systems

Organization of Life

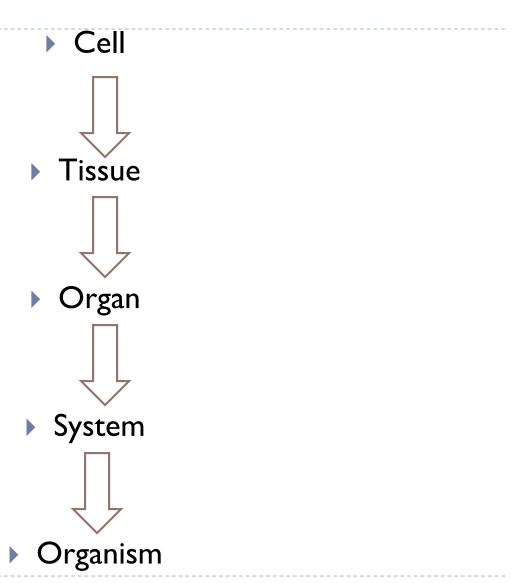
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Cell Specialization

http://app.discoveryeducation.com/mycontent#mode=MyCont ent&view=Favorites&guid=c9453417-9b06-4cb7-9799ffada4fefec5



The organization of Organisms (Page 120)



Cells (Cornell Style, Page 122)

You all know what a cell is by now!

- A Cell is the smallest unit of life!!!
 - In some cases it can exist on its own, in other cases it needs to live with other cells
 - Analogy: If CMS were an organism, each classroom at RMMS would be a cell)....Just like during Club Cell!!!



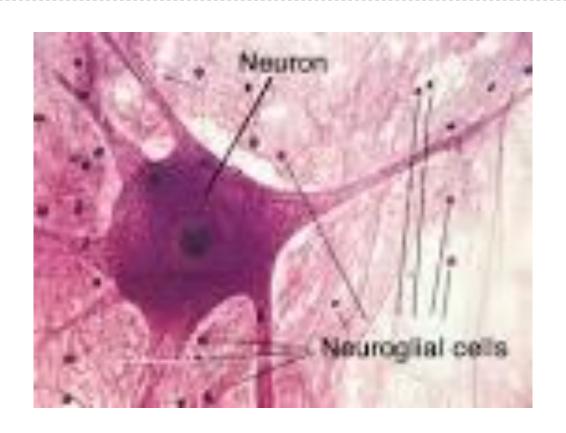
Tissue (Cornell Style, Page 122)

 Tissue – a group of cells that are structurally similar and perform the same function

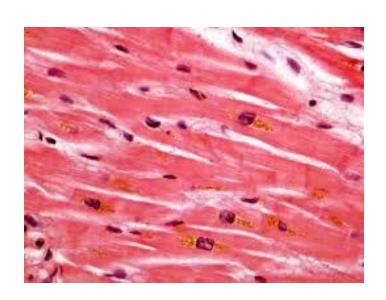
Ex. muscle, nerve, blood

Analogy: Each of the Pirates' classrooms together would make up tissue if RRMS was an organism.



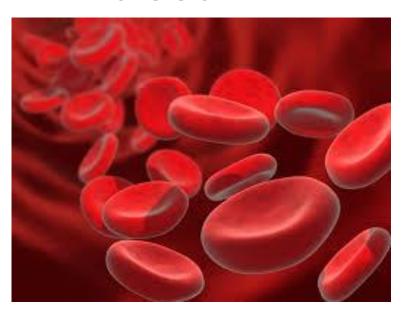






Muscle tissue

blood





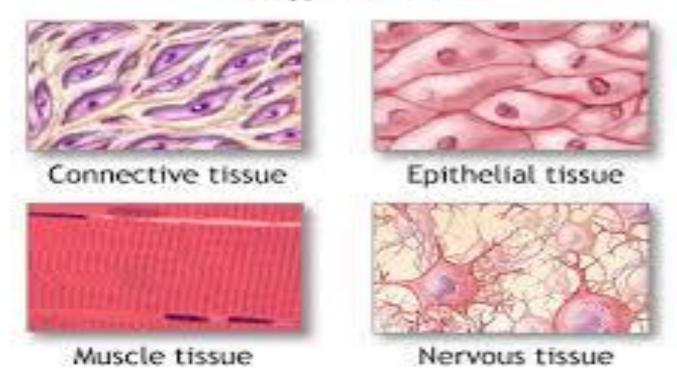
Types of tissue (Cornell Style, Page 122)

- Epithelial tissue covers body surfaces and lines body cavities
- Connective tissue supports other body tissues and binds tissues and organs together
 - Ex. tendons, ligaments
- Muscle Tissue tissues specialized for contraction
 - Ex. skeletal, smooth, cardiac



Four Types of Tissue

Four types of tissue





▶ Torn knee ligaments

http://www.youtube.com/watch?v=92ifz2qqtm8



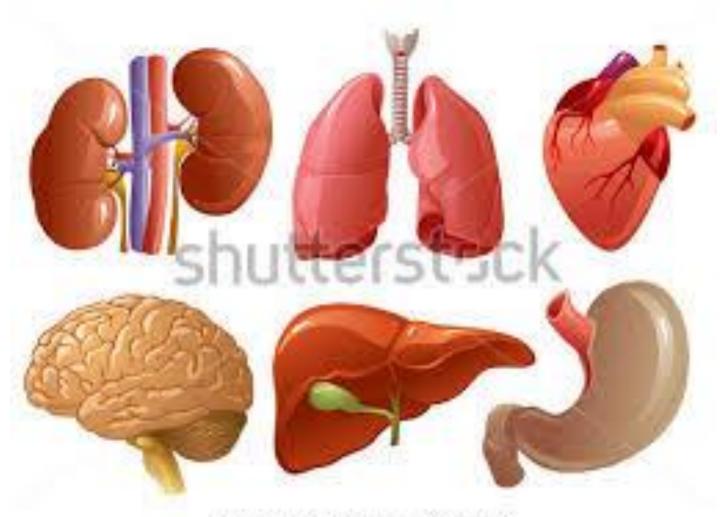
Organ (Cornell Style, Page 122)

- Organ a group of tissues that work together to form a specific function
 - Ex. Stomach

- Analogy: If RRMS was an organism, all of the tissues (Wolfpack, Vikings, Pirates, and Wildcats' classrooms) would each be an organ.
 - Eighth grade, Sixth grade, and electives would all be organs as well



ORGANS



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Organ System (Cornell Style, Page 122)

 Organ System – group of organs that work together to perform a specific function

Ex. digestive system

Analogy: The entire building of RRMS would be an organ system.



