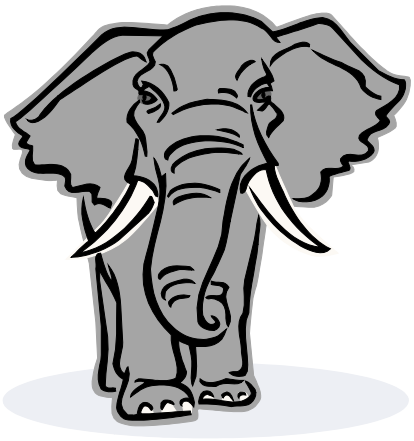
Compare and Contrast

http://www.caudata.org/daphnia/



Feb 28 - 7:40 PM

When Linnaues classified animals in the 1700's, he counted 4,236. There are now over a million.

Many animals are important to each other. Give an example.

clown fish ↔ sea anemone

fish - hawk

gazelle ↔ lion

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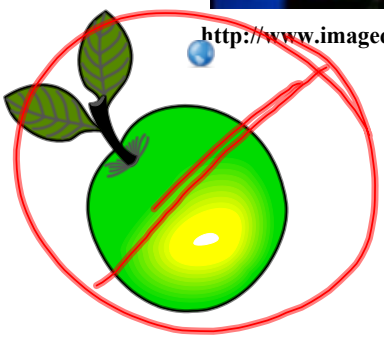
Heterotrophy-they cannot make their own food

http://www.imagequest3d.com/photos/zooplankton/index.htm



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Mobility-They can perform rapid, complex movements.Some can walk, swim, crawl, run, and fly.

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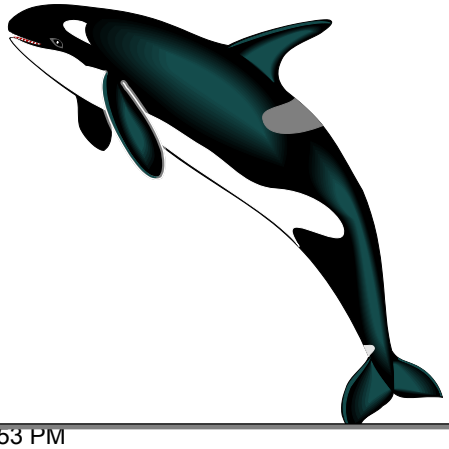
Multicellularity-all animals are multicellular, some are microscopic and some are as big as city buses. There is little difference in cell size.

http://www.caudata.org/daphnia/



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Diploidy-animals have two copies of each chromosome, one from the father and one from the mother

X X

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Sexual Reproduction-
almost all animals
reproduce sexually

Absence of cell wall- of the
multicellular organisms only
animals lack a cell wall

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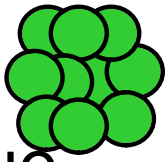
Choose an animal and give
evidence for each of the following.

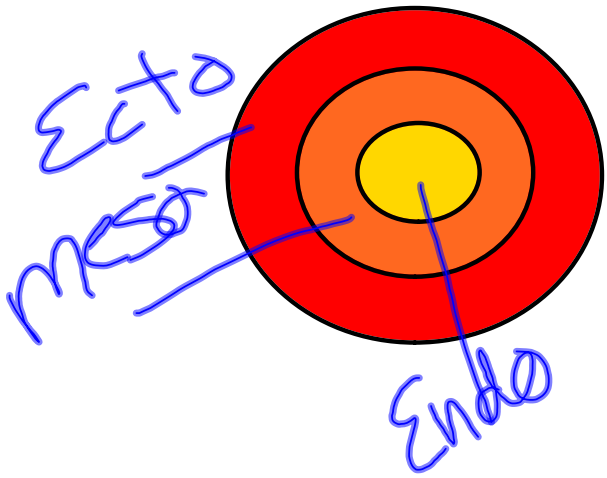
Heterotrophic
Mobility
Multicellular
Diploidy
Lacking Cell Walls
Sexual Reproduction

Feb 28 - 8:00 PM

Blastula-hollow ball of cells



Ectoderm-outer layer of tissue
Mesoderm-Middle layer of tissue
Endoderm-inner layer of tissue



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Ecto	Meso	Endo
Skin		Lungs
Eyes	Veins	Glands
Nervous System	Muscles	
	Skeleton	Stomach

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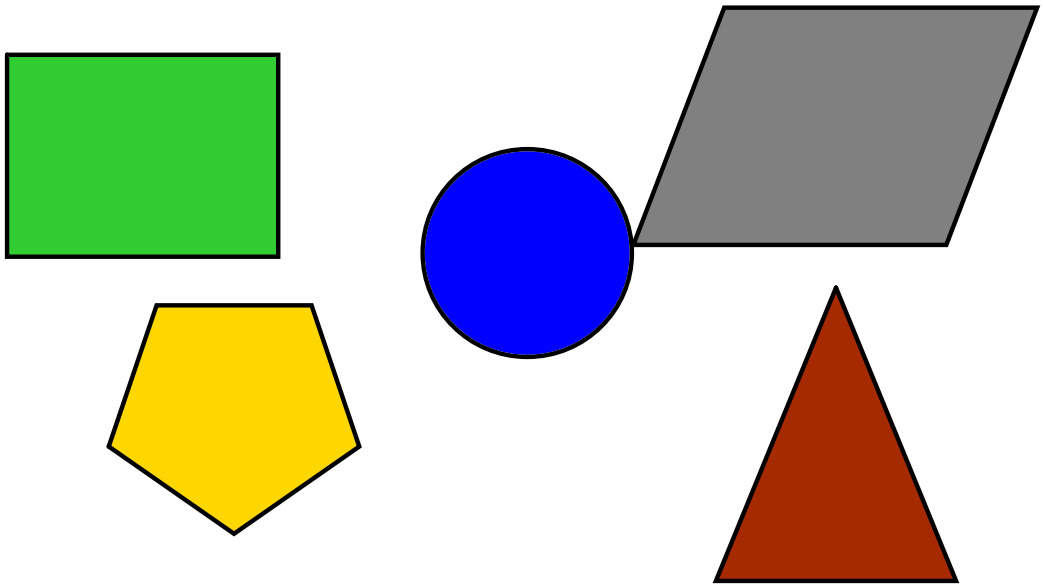
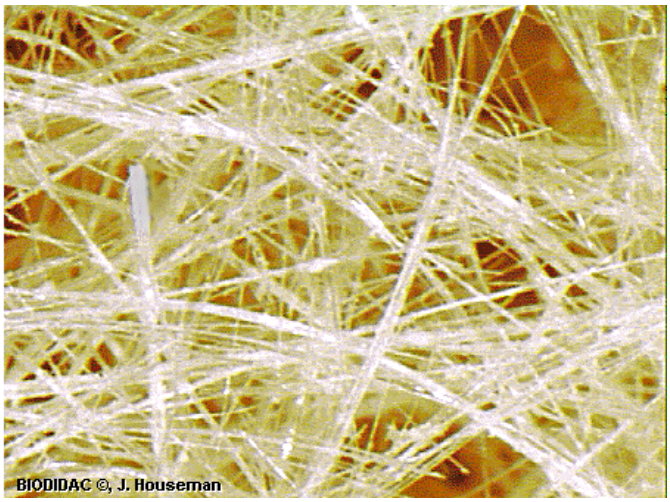
Body Plan- a term used to describe an animals shape.



Mar 2 - 5:21 PM

Asymmetrical- irregular in shape



http://cas.bellarmine.edu/tietjen/images/HEXA004P.GIF

sponge

Mar 2 - 5:24 PM

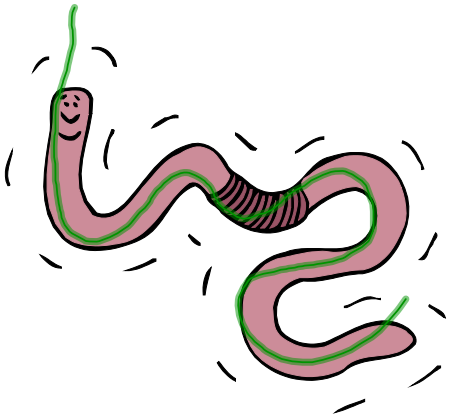
Radial symmetry- body parts all aranged around a central axis

Sea anemone

http://www.cyhaus.com/marine/anemone.htm

Mar 2 - 5:28 PM

Bilateral Symmetry- distinct right and left halves



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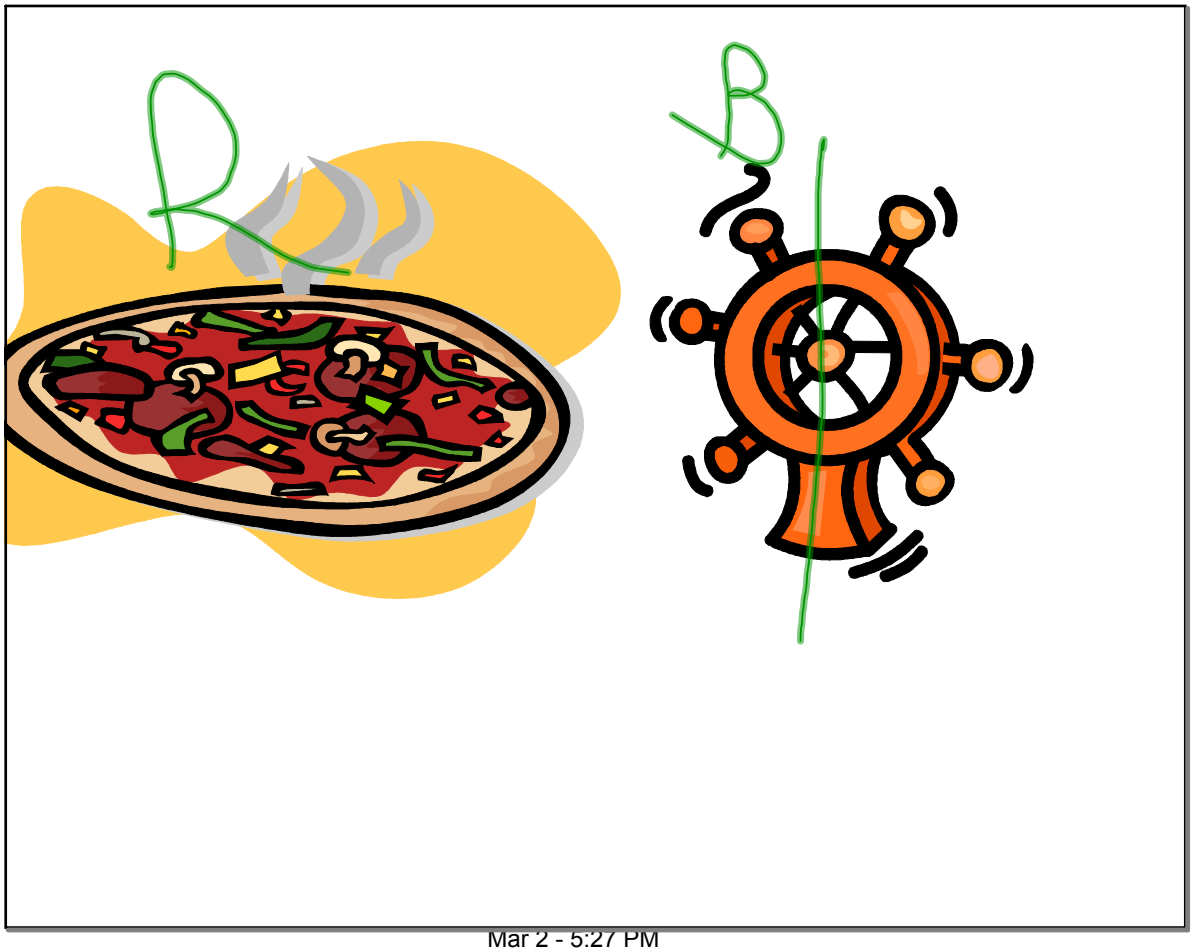

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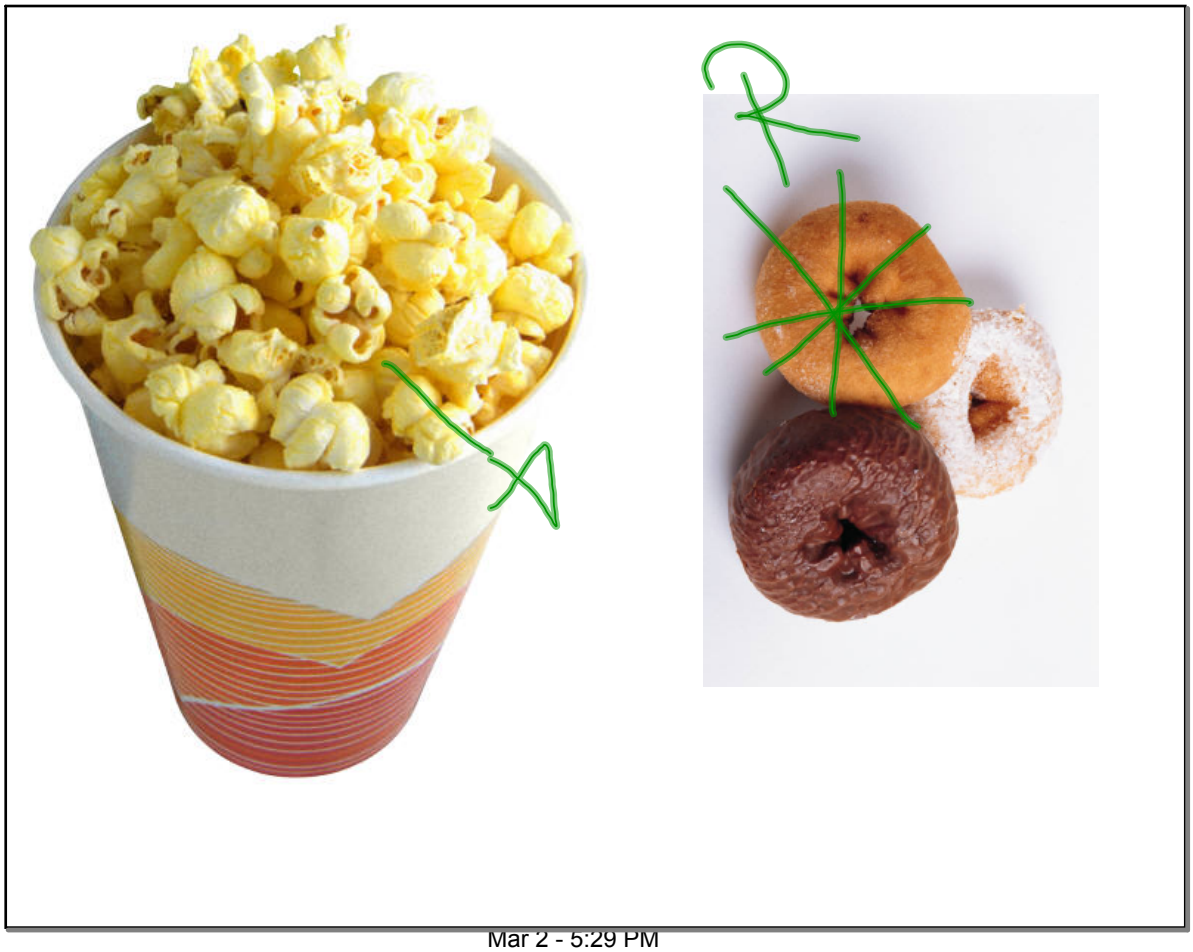

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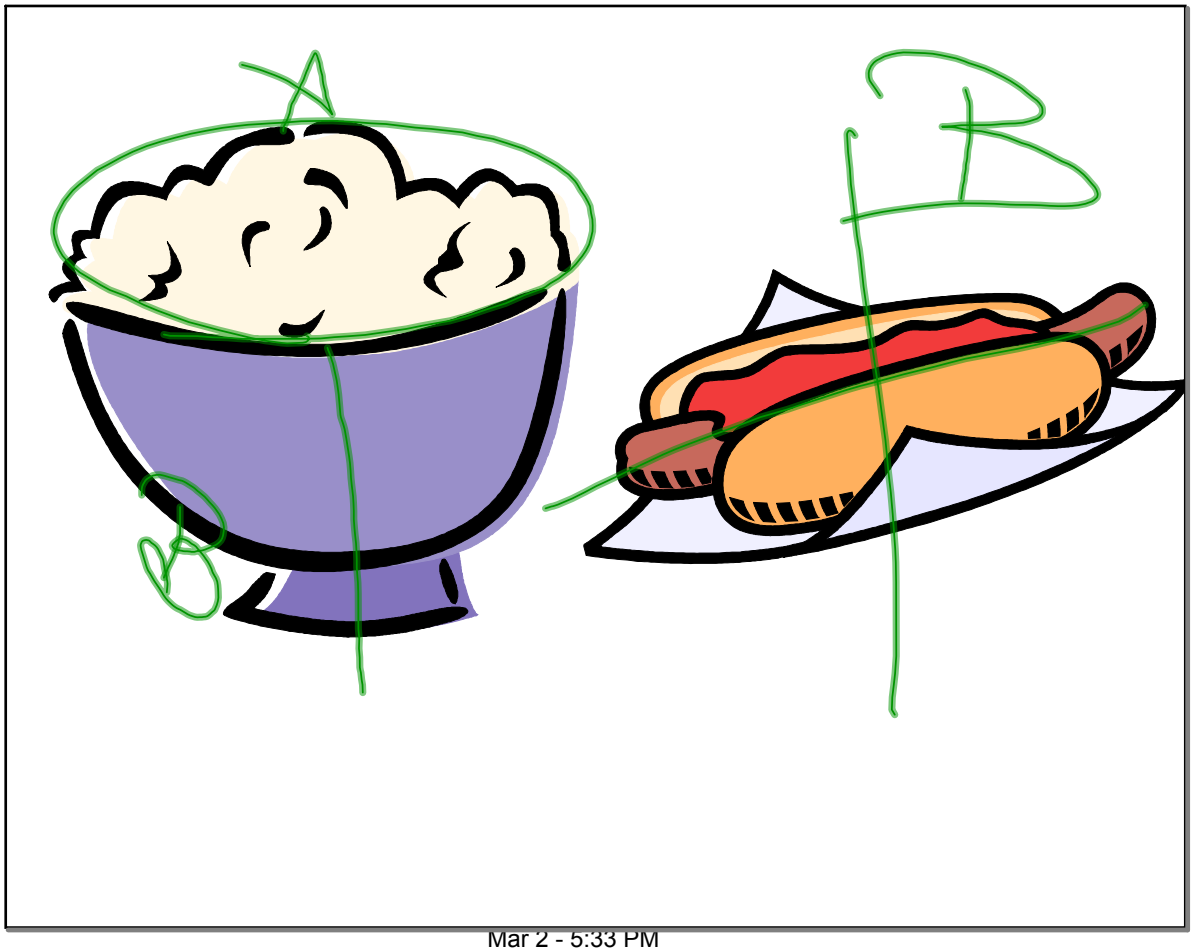

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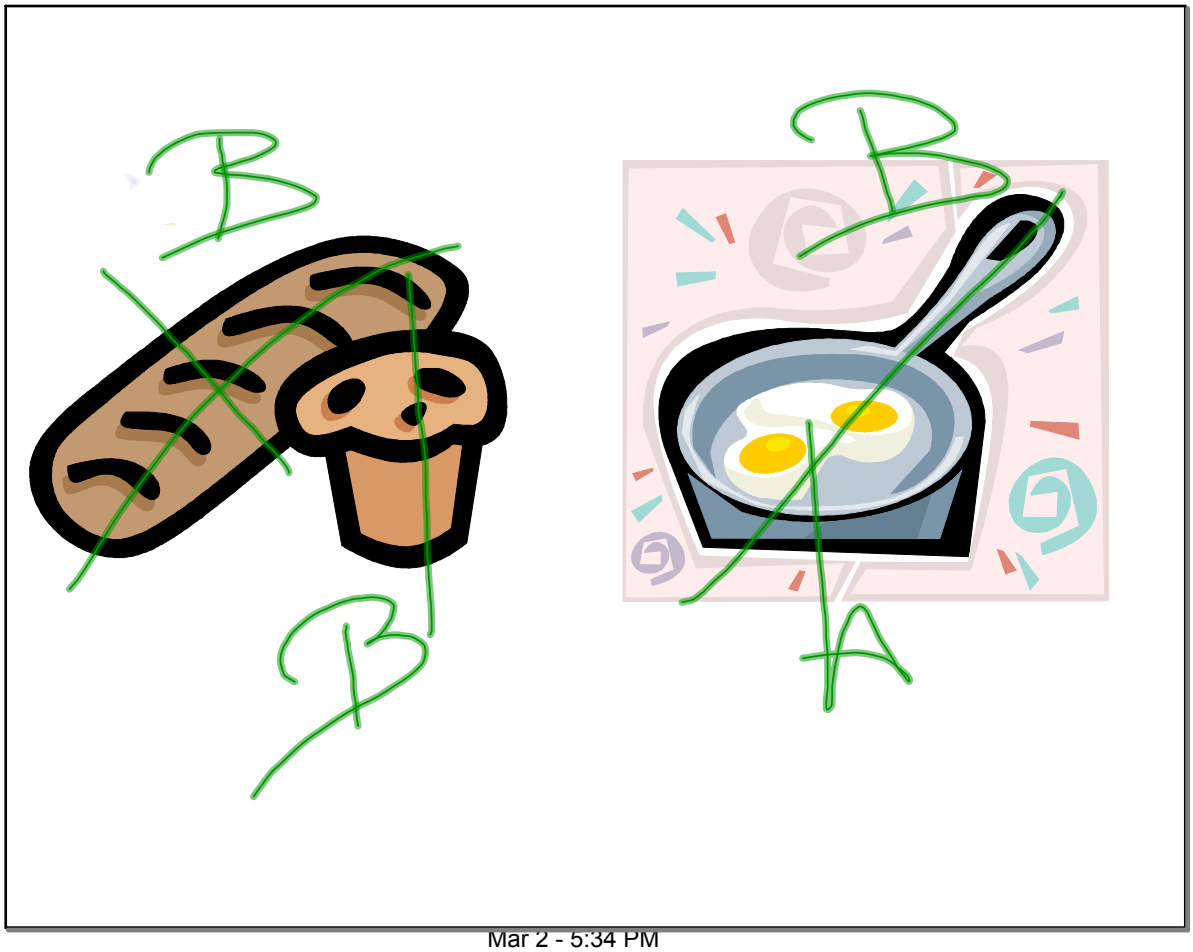


Mar 2 - 5:34 PM

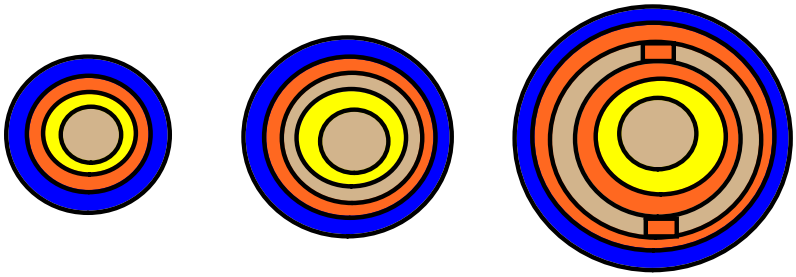
Bilaterally symmertrical animals have one of three basic body plans.

Ectoderm

Mesoderm

Endoderm

Gut,cavity



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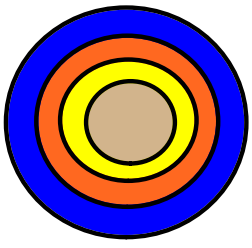
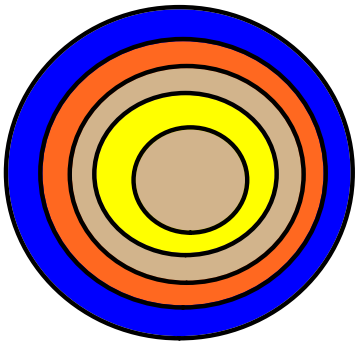
Acelomates- animals with no body cavity



The space between the gut and the wall is completely filled with tissue.

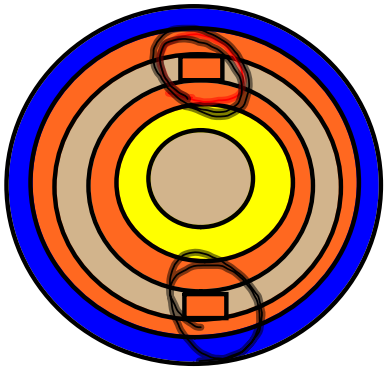
Mar 3 - 2:59 PM

Pseudocoelomates- have a body cavity located between the mesoderm and the endoderm.



Mar 3 - 3:01 PM

Coelomates- a body cavity located entirely within the mesoderm.



The gut and other organs are suspended in the coelom.

Mar 3 - 3:02 PM

Advanced organism show segmentation.

Where is the segmentation in humans?

vertebrae

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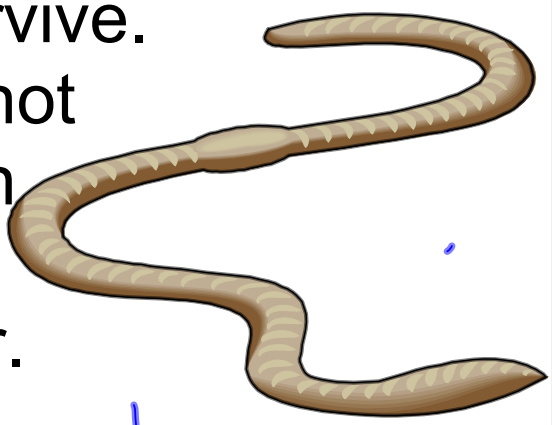
In an earthworm each segment repeats many of the organs so injured animals can still survive. The segments are not independant though materials still pass from one to another.



How? intestine

Mar 3 - 3:05 PM

A phylogenic tree- shows how animals are related

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Phylum	Evolutionary Milstone
Chordata	Notocord
Echinodermata	Deuterostomes
Arthropoda	Jointed Appendages
Annelida	Segmentation
Mollusca	Coelom
Nematoda	Pseudocoelom
Platyhelminthes	Bilateral Symmetry
Cnidaria	Tissues
Porifera	Multicellularity

Mar 3 - 3:28 PM