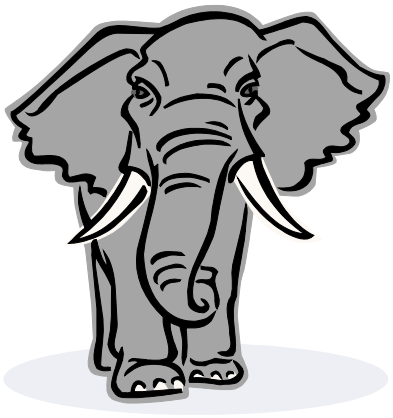
Compare and Contrast

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



Feb 28 - 7:40 PM

When Linneaus classified animals in the 1700's, he counted 4,326. There are now over a million.

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

cows → human whales → krill
bats → mosquito

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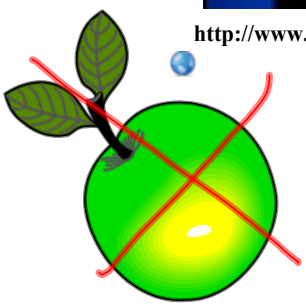
Heterotroph-they cannot make their own food

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



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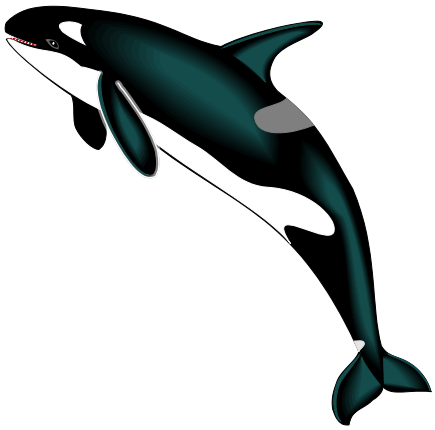
Mobility -They can perform rapid, complex movements .Some can walk, swim, crawl , run, and fly.

Feb 28 - 7:50 PM

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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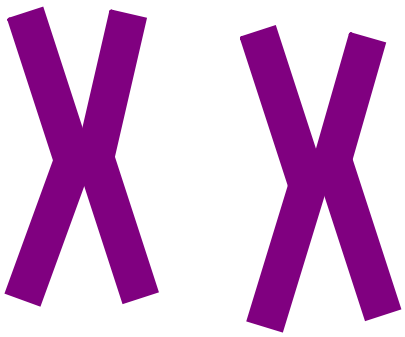
Diploidy-animals have 2 copies of each chromosome, one from the father and one from the mother



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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

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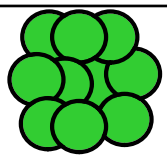
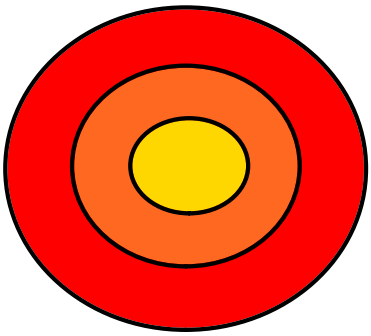
Blastula-hollow ball of cells



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



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

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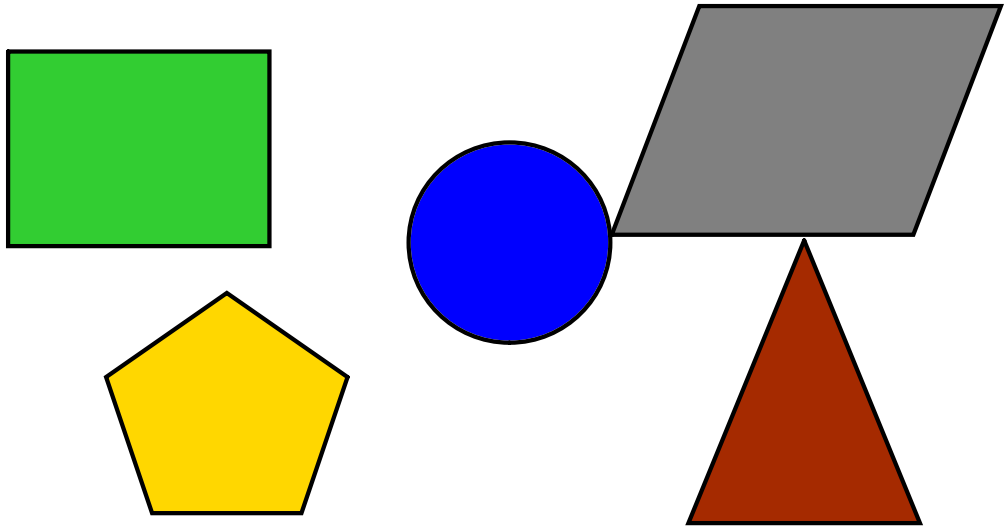
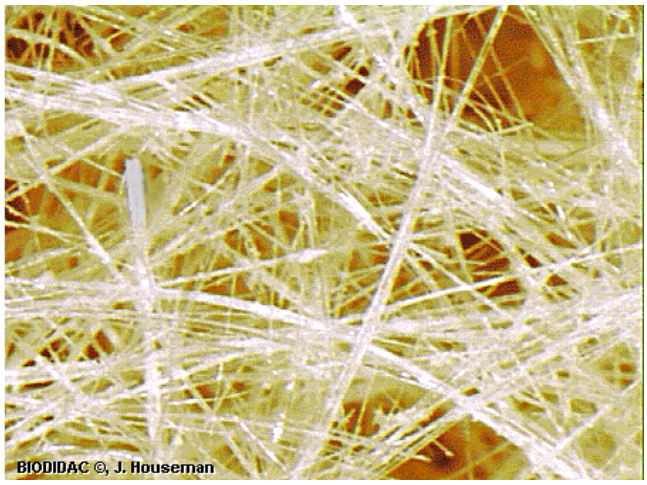
Body Plan- a term used to describe an animals shape.



Mar 2 - 5:21 PM

Asymmetrical- lacking in shape



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

Mar 2 - 5:24 PM

Radial symmetry- body parts all arranged around a central axis

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

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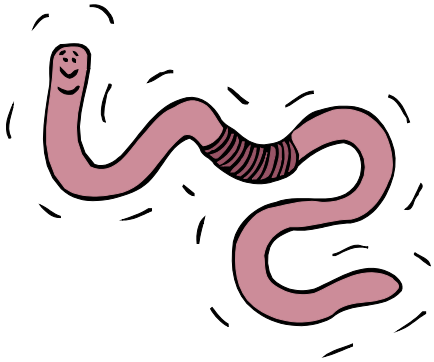
Bilateral Symmetry- distinct left and right halves



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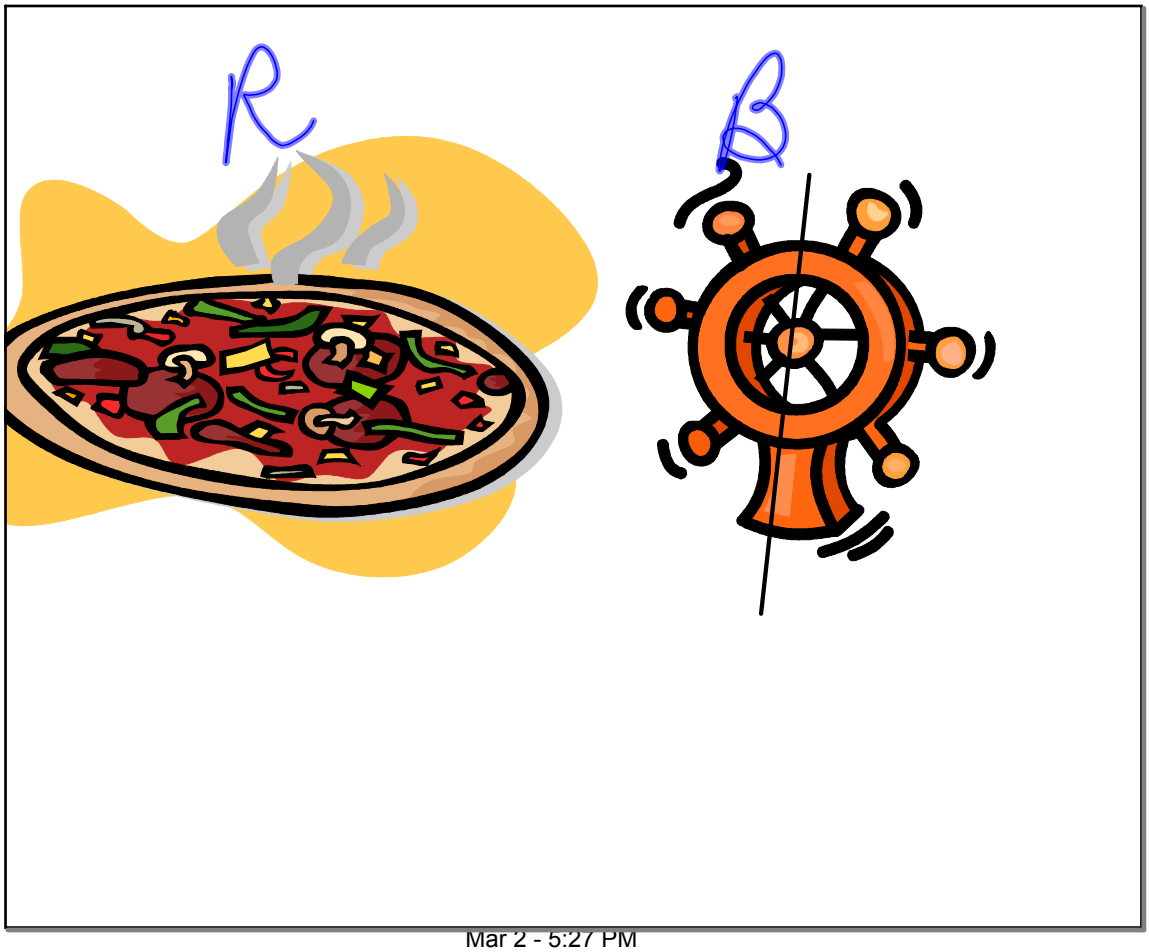

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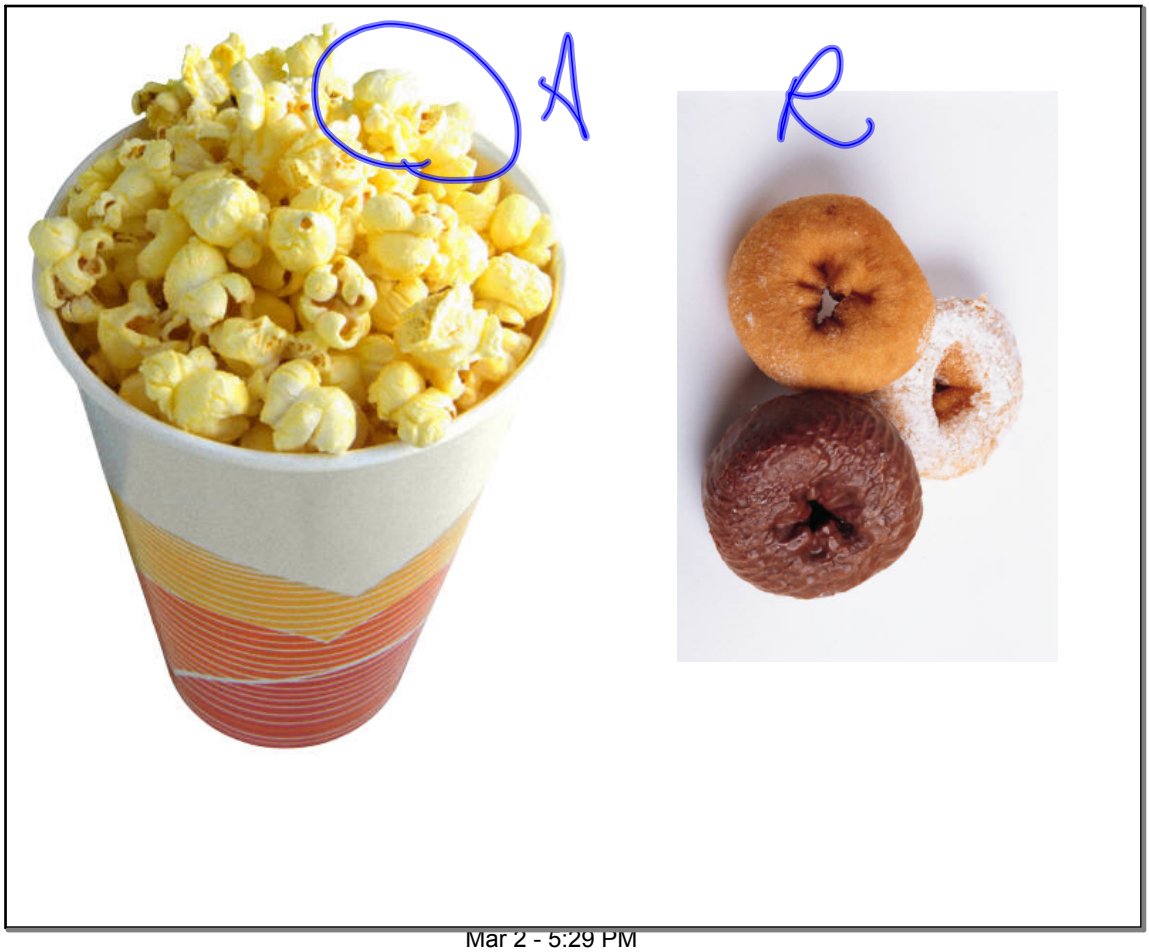

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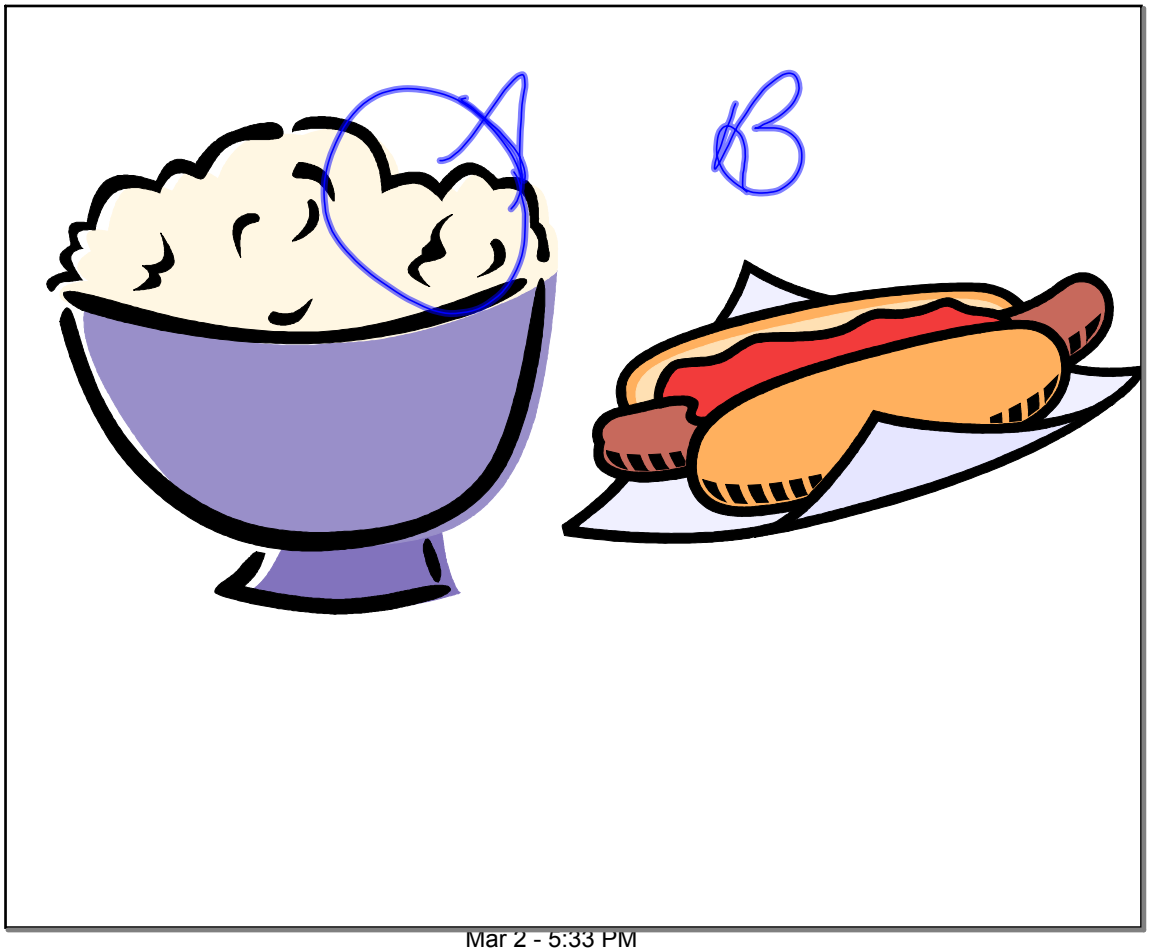

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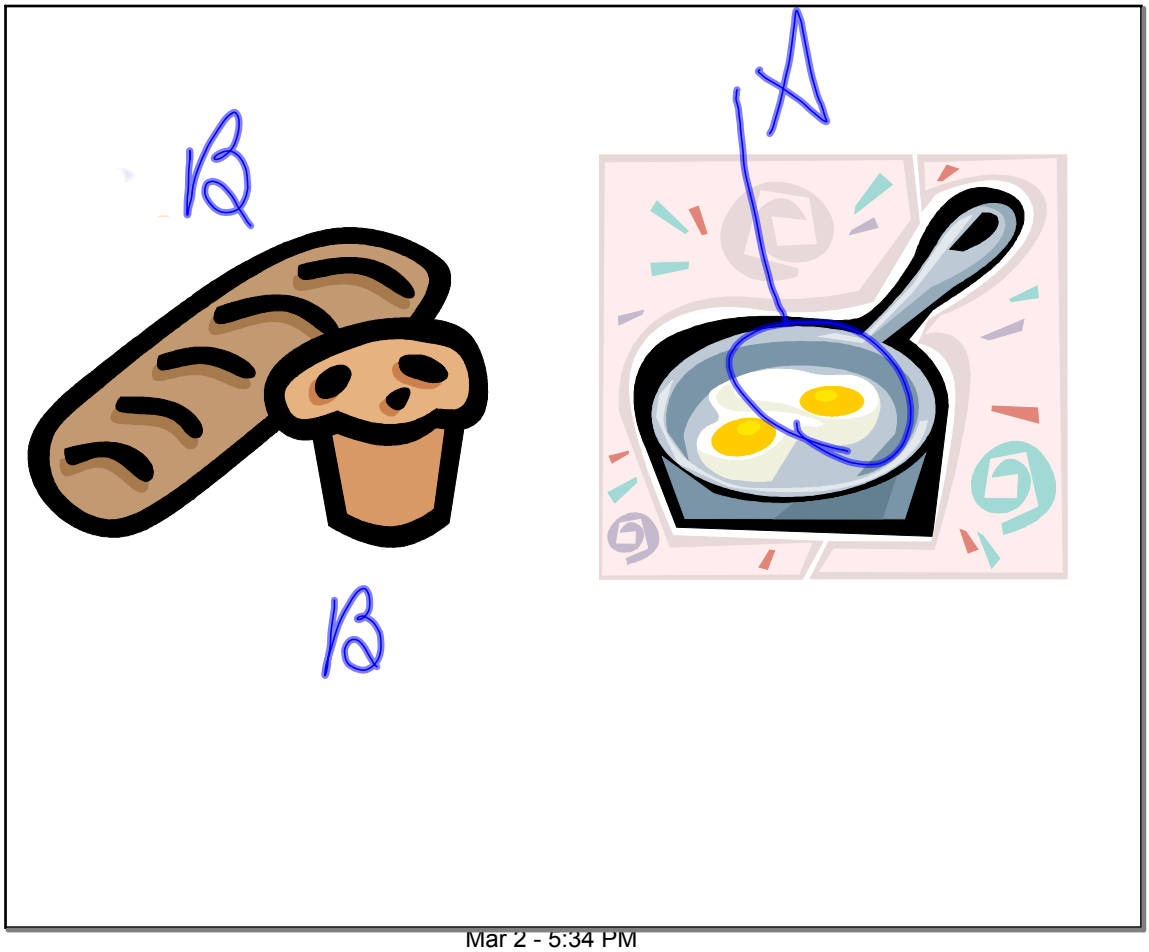
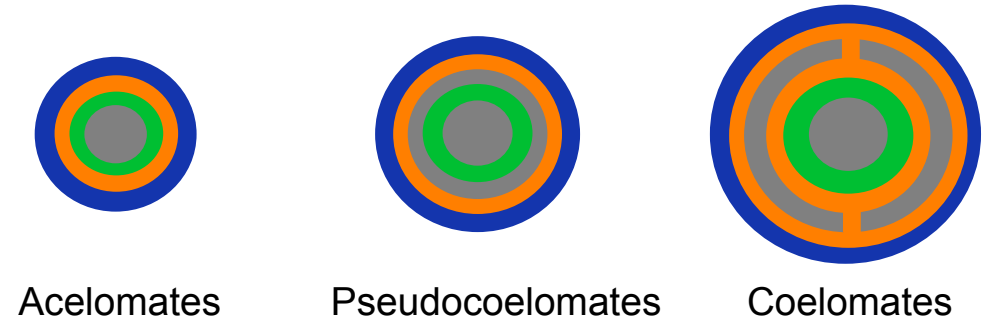


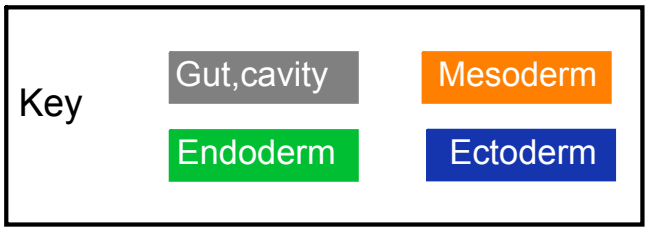
Mar 2 - 5:34 PM

Bilaterally symmertrical animals have one of three basic body plans.

Body Cavity Types



Acelomates Pseudocoelomates Coelomates



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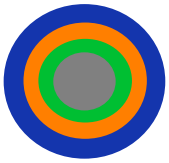
Acelomates- animals with no body cavity



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

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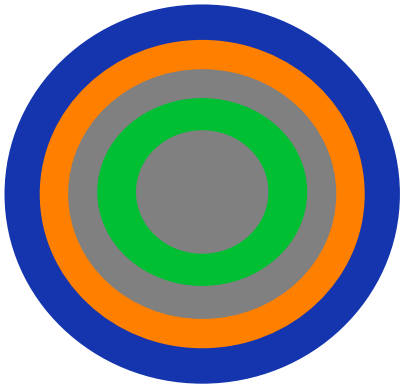
Pseudocoelomates- have a body cavity located between the mesoderm and the endoderm.



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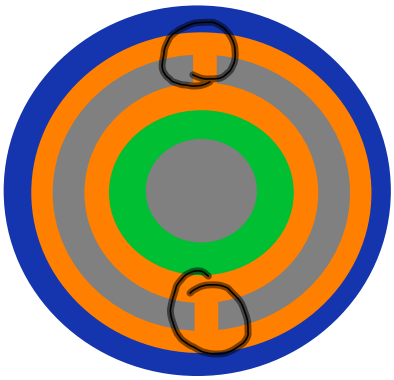
Coelomates- a body cavity located entirely within the mesoderm.



The gut and other organs are suspended in the coelom.

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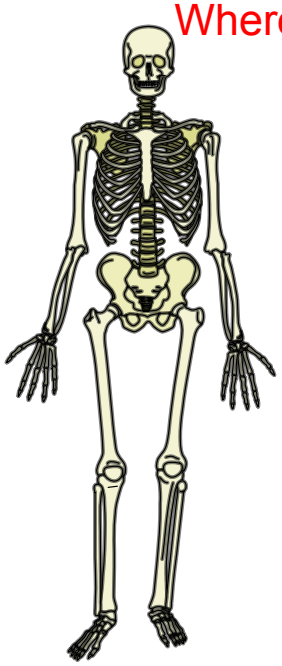
Advanced organism show segmentation.

Where is the segmentation in humans?



Spine

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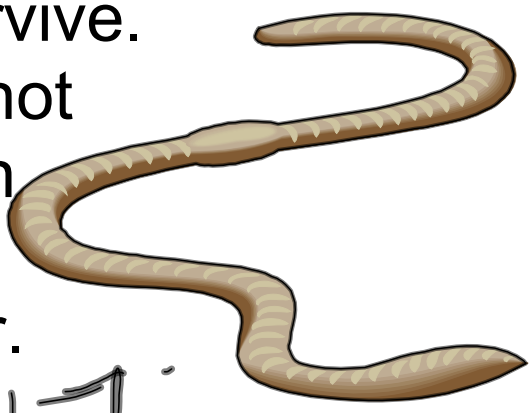
In an earthworm each segment repeats many of the organs so injured animals can still survive. The segments are not independant though materials still pass from one to another.

How?



intestine

Mar 3 - 3:05 PM

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