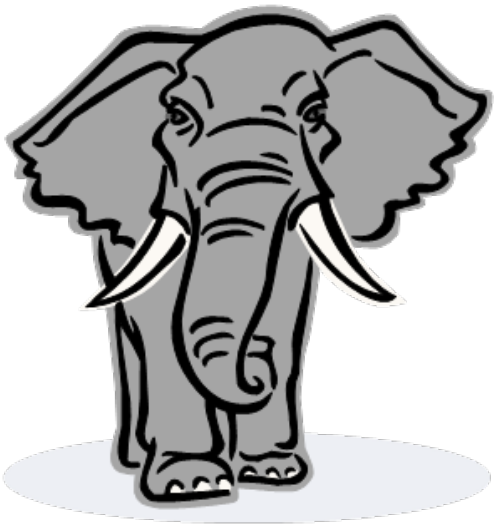
Compare and Contrast

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

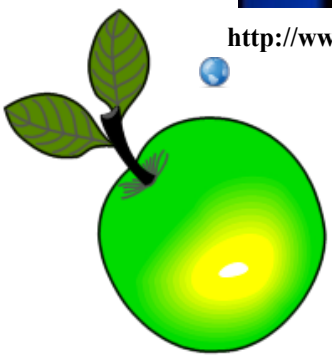


When Linneus classified animals in the 1700's, he counted 4,236. There are now over a million.

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

Heterotrophy-they cannot make their own food

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



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

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

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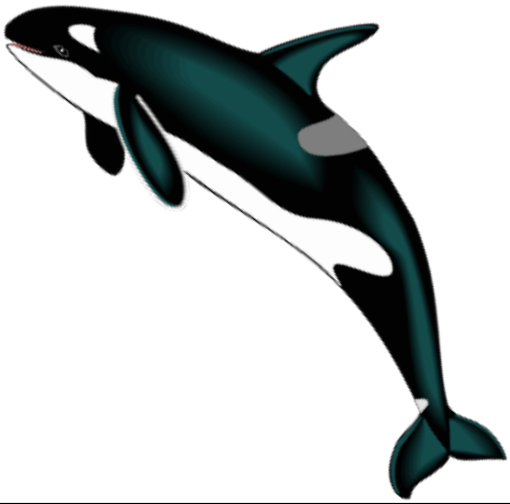
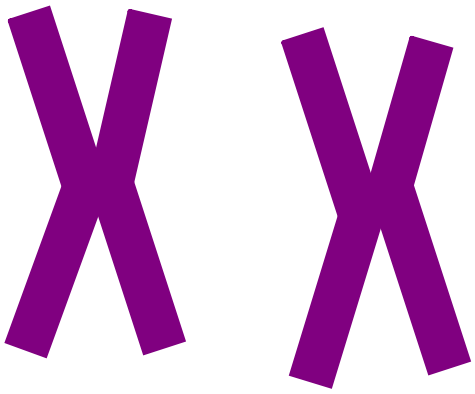


Diploidy-animals have 2 copies of each chromosome, one from the father and one from the mother



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

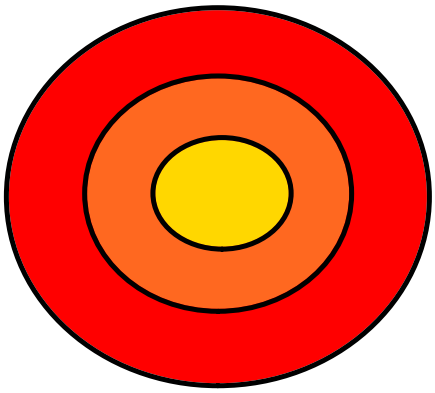
Diploidy

Lacking Cell Walls

Sexual Reproduction

Blastula-hollow ball of cells

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



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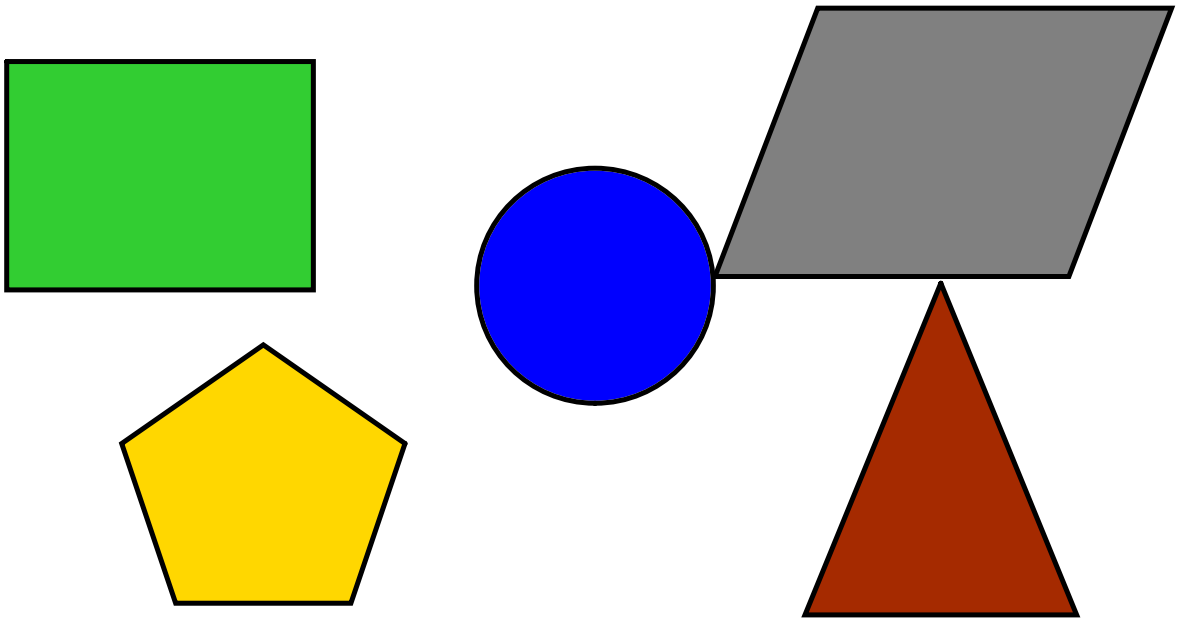
Ecto	Meso	Endo
Skin	Muscles	Lungs
Eyes	Skeleton	Stomach
Nervous System	Glands	
	Veins	

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



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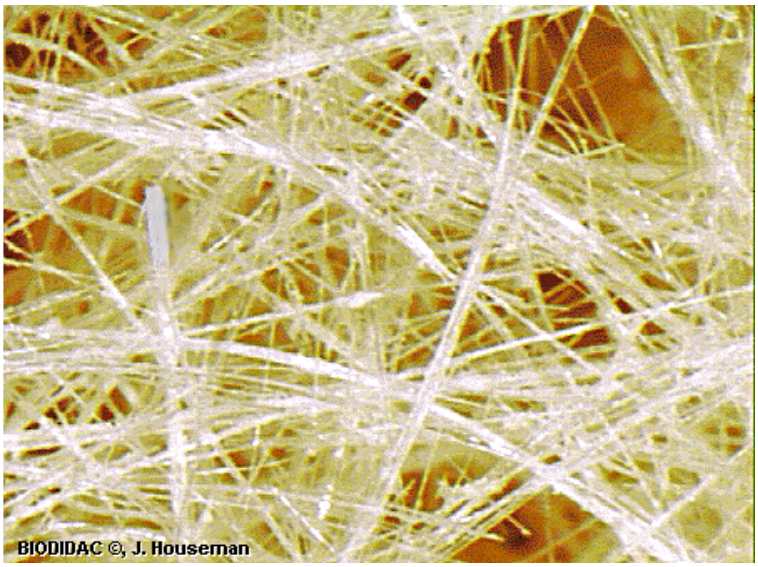
Asymmetrical- irregular in shape



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

Radial symmetry- body parts all arranged around a central axis

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

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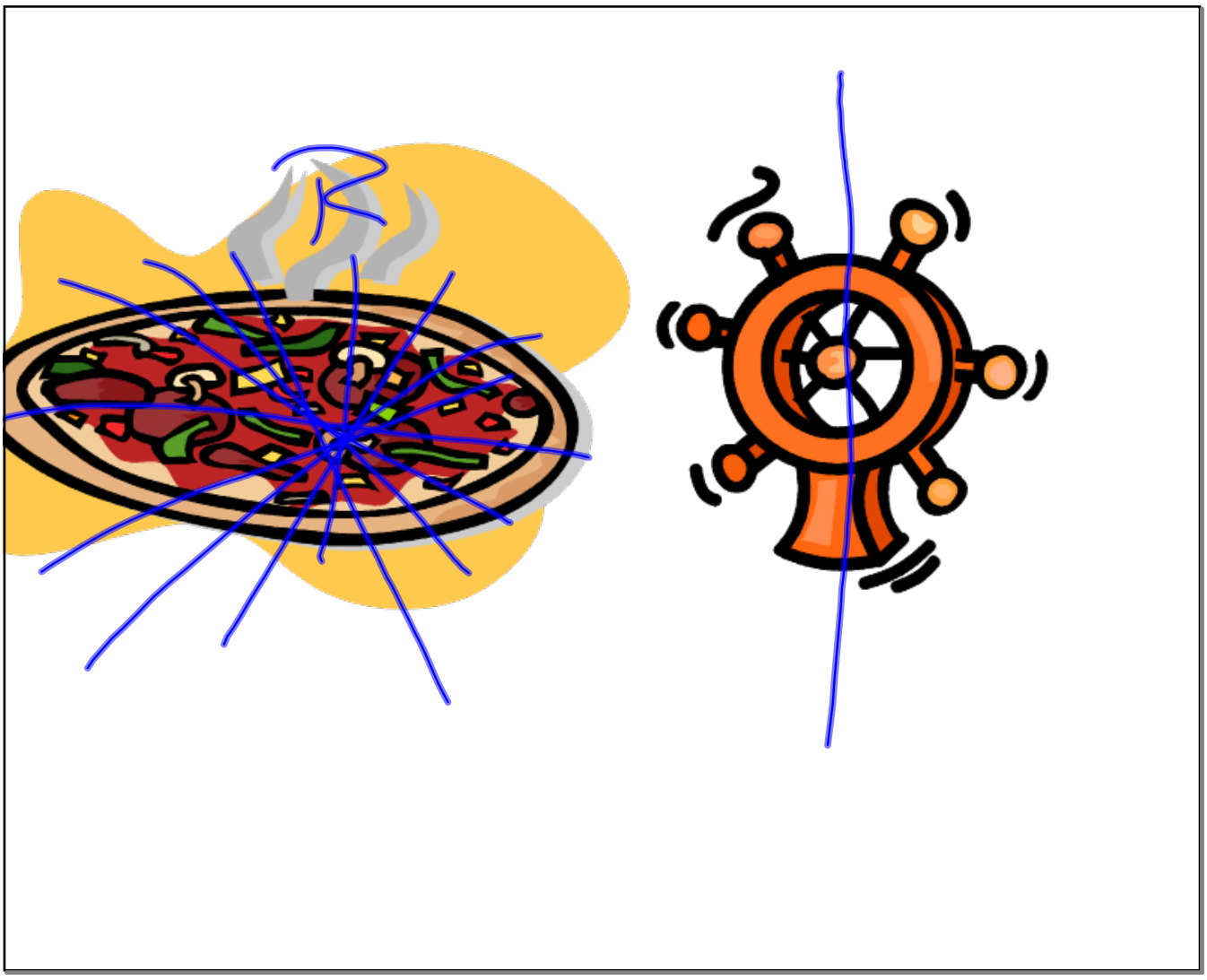
Bilateral Symmetry- distinct left and right halves



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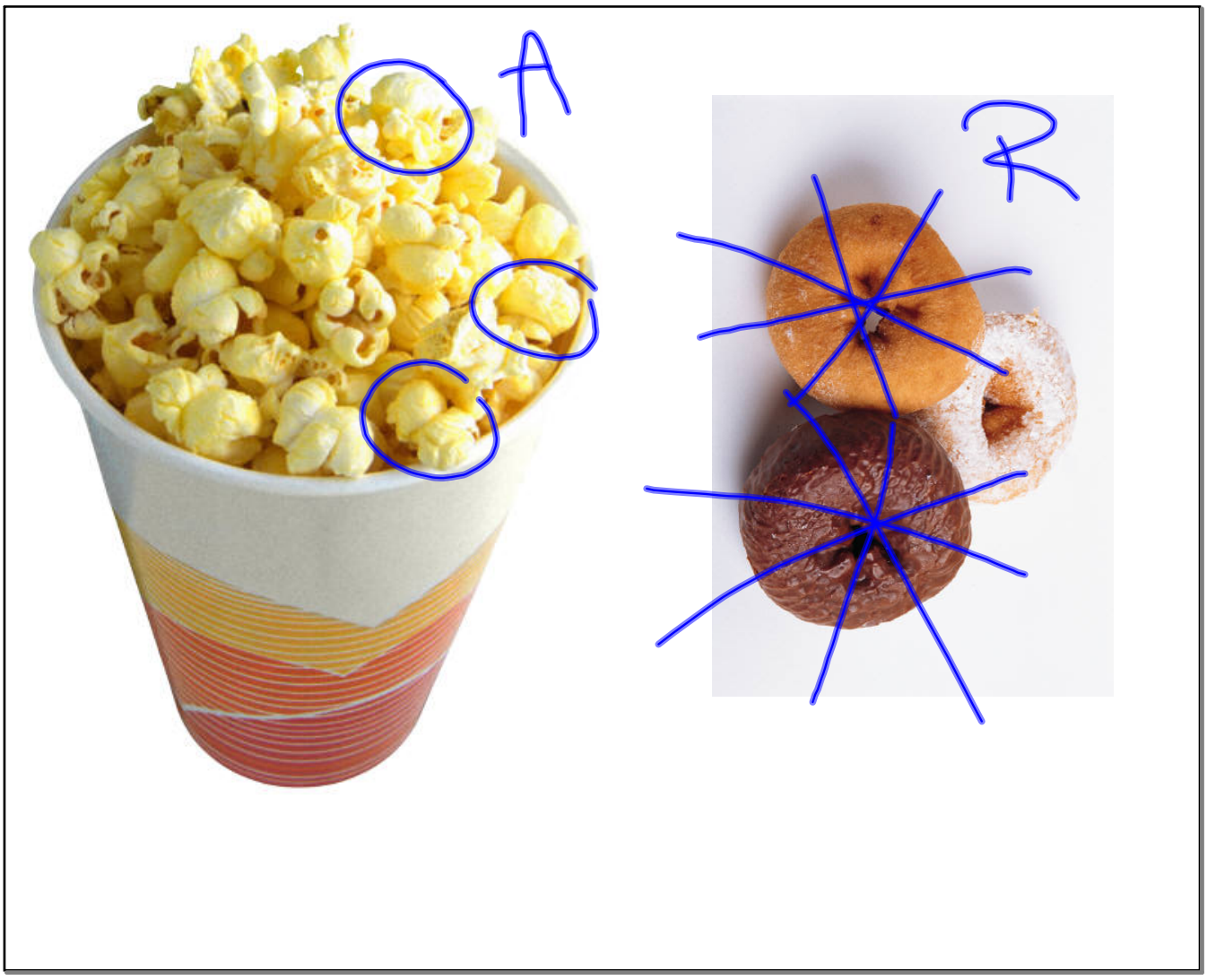

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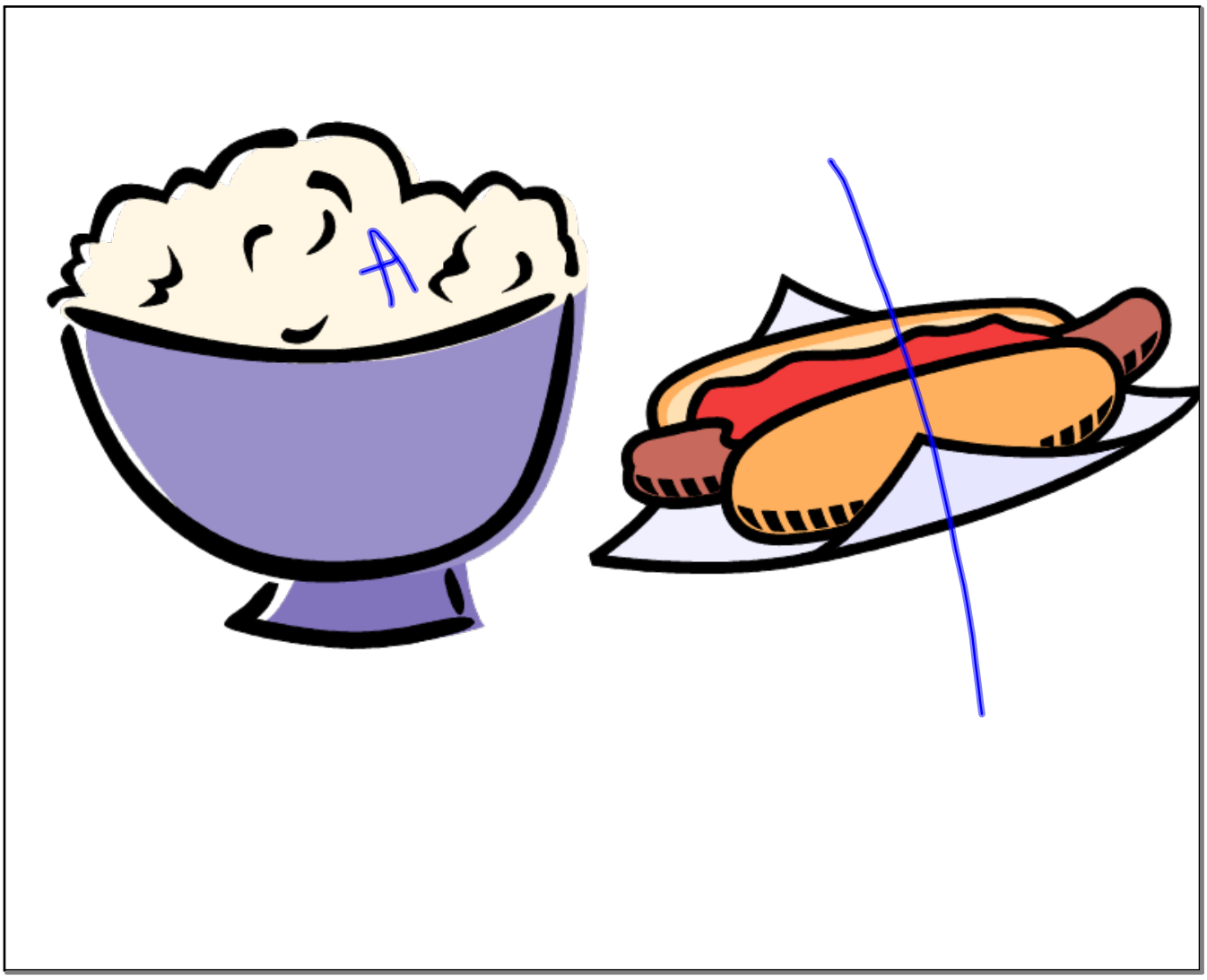

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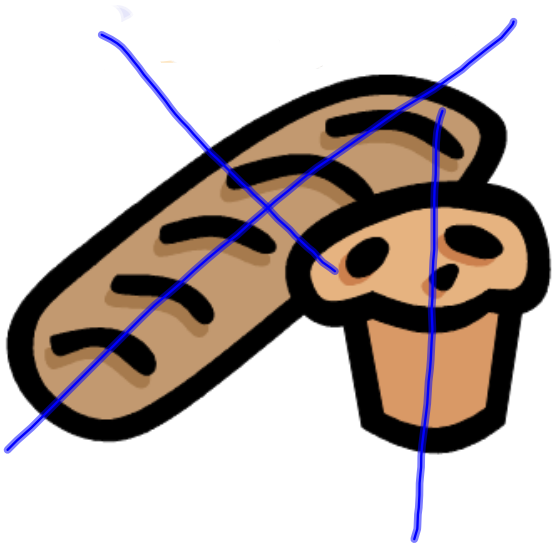

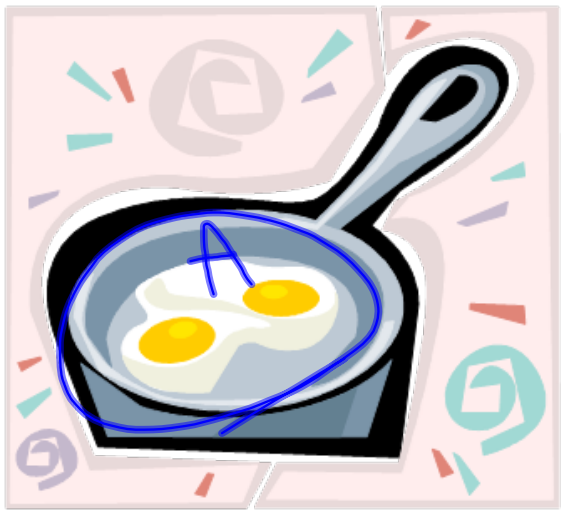

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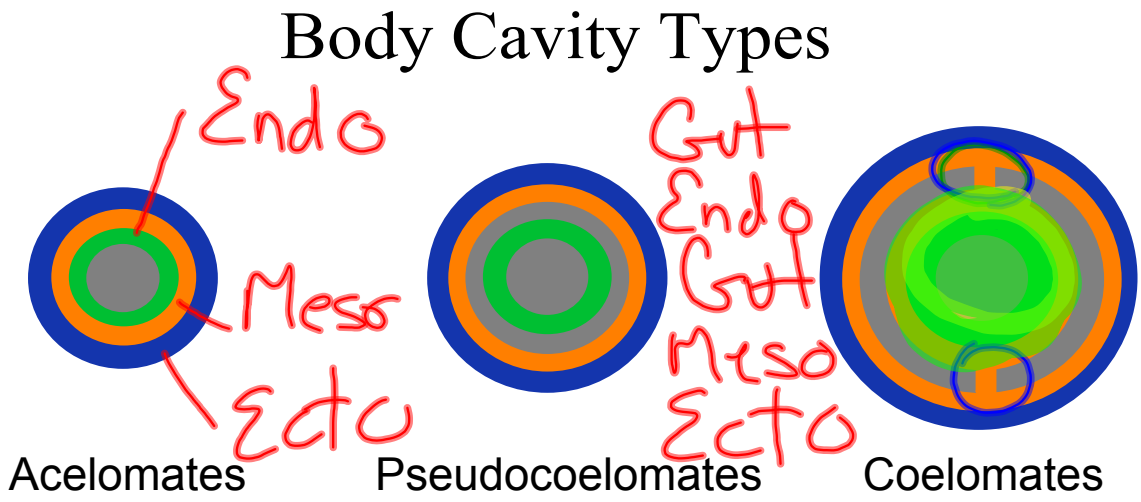
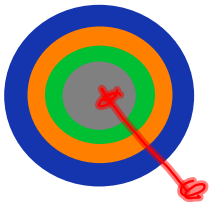
Bilaterally symmertrical animals have one of three basic body plans.



Key

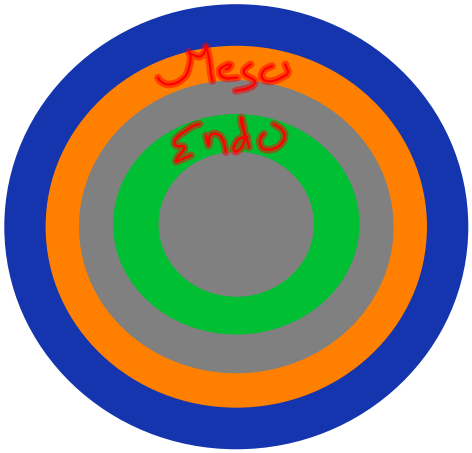
- Gut,cavity
- Mesoderm
- Endoderm
- Ectoderm

Acelomates- animals with no body cavity



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

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



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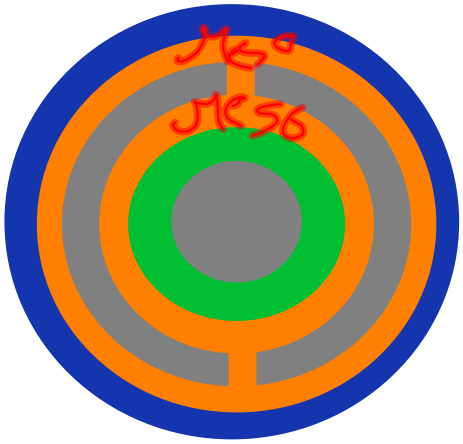
Coelomates- a body cavity located entirely within the mesoderm.



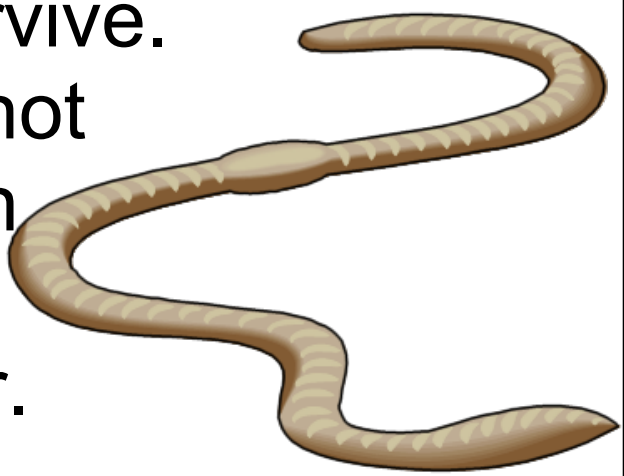
The gut and other organs are suspended in the coelom.

Advanced organism show segmentation.

Where is the segmentation in humans?

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?



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