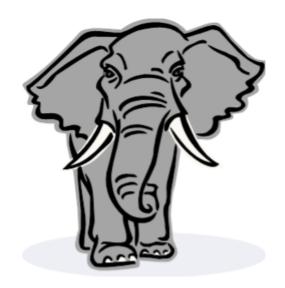
Compare and Contrast

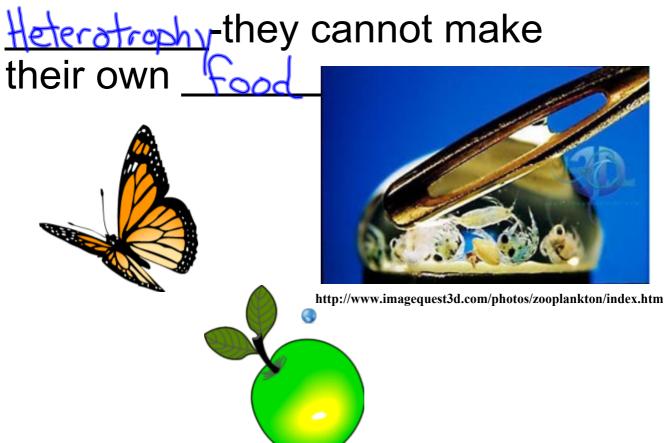




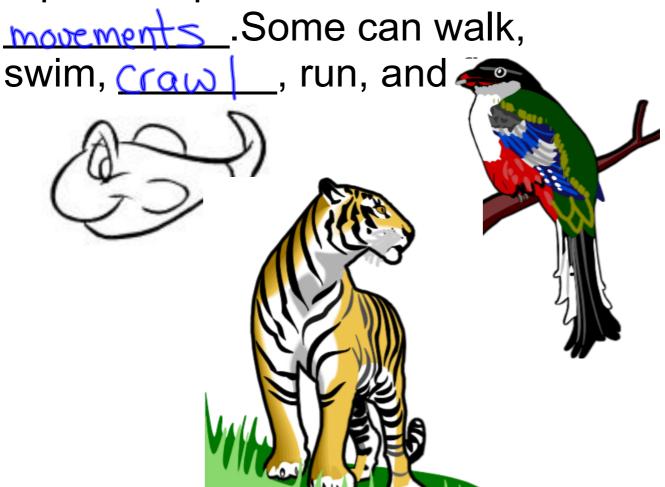


When Linneaus classified animals in the 1700's, he counted 4,236. There are now over a million.

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

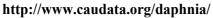


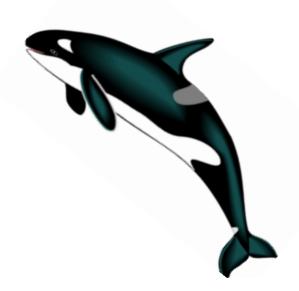
Mobility -They can perform rapid, complex



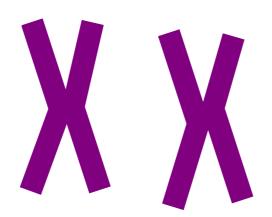
Multicellularity-all animals are molticellular, some are microscopic and some are as big as city buses. There is little <u>difference</u> in cell size.







Diploidy-animals have ______ copies of each chromosome, one from the _____ and one from the mother



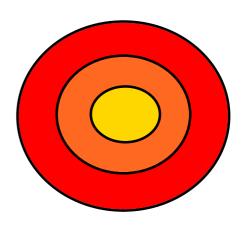
Sexual Reproductionalmost all animals reproduce sexually

Absence of cell wall- of the multicellular organisms only animals without a cell wall

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-<u>outer</u> layer of tissue Mesoderm-<u>middle</u> layer of tissue Endoderm-<u>inner</u> layer of tissue



Ecto

Skin

Eyes

Nervous System Meso

Muscles

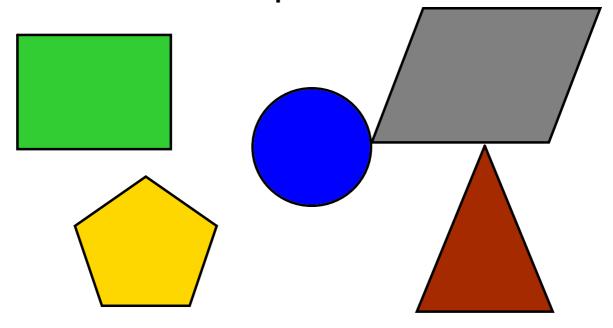
Skeleton

Glands

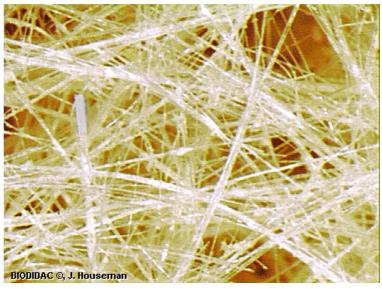
Veins

Endo

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

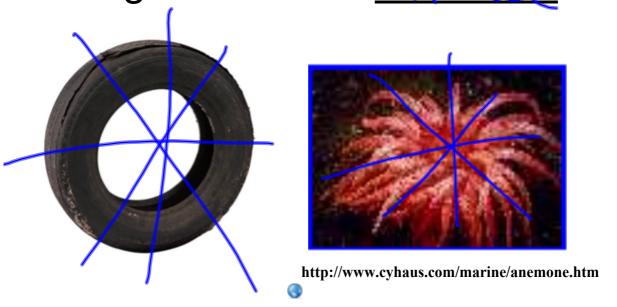


Asymmetrical- irregular in shape

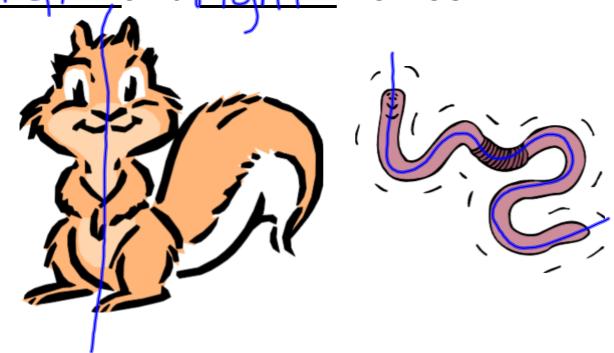


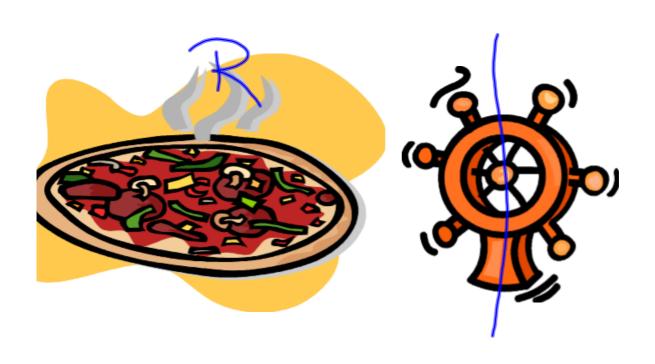
http://cas.bellarmine.edu/tietjen/images/HEXA004P.GIF

Radial symmetry- body parts all arranged around a central axis

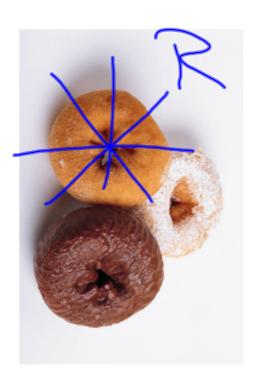


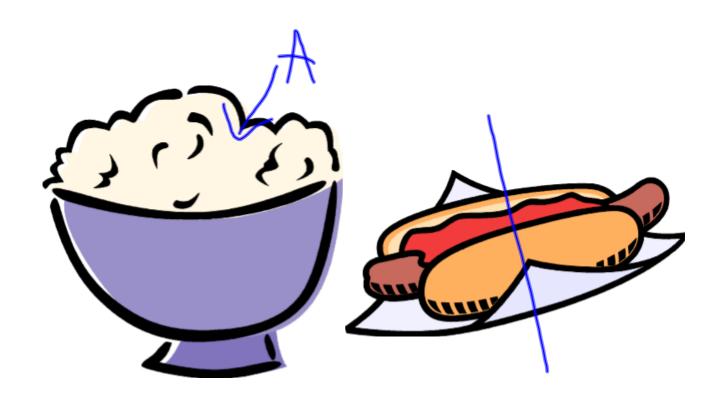
Bilateral Symmetry- distinct left and ciaht halves

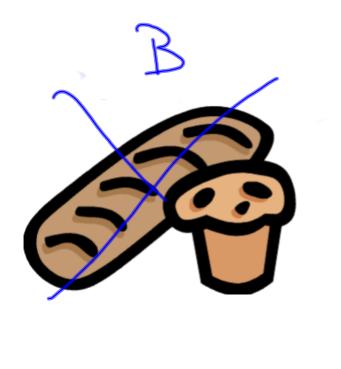






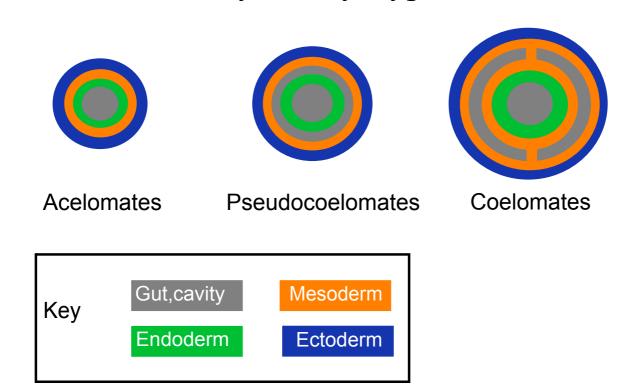




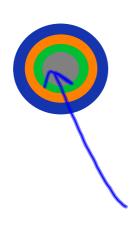




Bilaterally symmertrical animals have one of three basic body plans. Body Cavity Types



Acelomates- animals with no body cavity

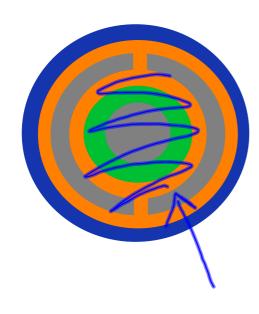


The space between the gut and the wall is completely filled with tissue.

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



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