

# Cheatography

## Animal Diversity Cheat Sheet by katiefocht25 (katiefocht) via cheatography.com/132231/cs/31285/

### Characteristics of Animals

eukaryotic  
multicellular  
lack cell wall  
heterotrophic  
mostly sex reprod  
diverse & complex developmental strats  
- gastrulation, symmetry, germ tissue

### animal body plans: tissues

ectoderm outermost covers embryos surface  
endoderm innermost, digestive tube  
mesoderm middle, connective tissues

### animal phylogeny- 'body plans'

combine morphological, molecular, fossil data  
~ 35 animal phyla  
**body plan** set of morphological and developmental traits  
symmetry, tissues, body cavities

### animal body plans: body cavities

coelomate true coelom  
pseudocoelomate "fake" coelom  
acoelomate no coelom

### General points of agreement

animals share a common ancestor  
sponges are basal animals  
eumetazoa clade with true tissues  
most animals are bilaterians  
- 3 clades

### animal body plans: gastrulation

cleavage rapid cell division in zygotes  
blastula embryonic stage of multicellular hollow ball from cleavage  
gastrula embryonic stage of dif. tissue layers created thru gastrulation  
blastopore: opening on embryo.. usually becomes anus

### protostomy vs deuterostomy

PROTOSTOMY	DEUTEROSTOMY
mouth first	anus first
sprial determinate	radial inderterminate
molluscs	chordates
bottom 8	middle 3



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