

### Cnidaria

no of openings	1
symmetry	radial
digestion	gastrovascular cavity
tentacles	release poison and hook prey
Reproduction	polyp - medusa
classes	Hydrozoa - Scyphozoa - Anthozoa
<b>Hydrozoa</b>	freshwater cnidaria such as hydra
<b>scyphozoa</b>	jellyfish
<b>Anthozoa</b>	sea anemones and corals

### Sponges

feeding	filter feeders
tissues and organs?	absent
nervous system?	absent
sclerocytes	cells that produce spicules
spicules	needle like structures that give rigidity and form
reproduction	fragmentation - budding - gemmulation
symmetry	asymmetrical
digestion	intracellular

### Arthropod Classification

<b>crustaceans</b>	5 pairs of legs, crabs 2 pairs of antennae, 2 compound eyes, swimmerettes (swimming & reproduction)
<b>arachnids</b>	6 pairs of appendages, no antennae, have a cephalothorax, and a spinneret (produces silk) spiders, scorpions
<b>myriapods</b>	many legs, one pair of antennae centipede
<b>Insects</b>	3 pairs of legs, 1 pair of antennae, 2 pairs of wings, compound eyes bees, mosquitoes

### Annelids

body type	segmented
digestive system	made of a crop and gizzard
Setae	Bristles located on each segment that aids in motion
clitellum	a swollen saddle like part of the body that allows fertilization
Classes	oligochaeta - polychaeta - hirudinea
<b>Oligochaeta</b>	terrestrial worms earthworms
<b>polychaeta</b>	marine worms that decompose organic waste into CO2 bristle worms
<b>Hirudinea</b>	leeches

### Rotifers

Symmetry	bilateral
cavity	pseudocoelomates
motion	cilia are present for locomotion and feeding

### Nematodes

symmetry	bilateral
digestive tract	present
cavity	pseudocoelomates
body shape	tapered ends

### Nematode Classification

<b>Trichinella</b>	causes trichinosis	infects humans through the consumption of undercooked meat
<b>Hookworms</b>		infects humans who walk barefoot on contaminated soil
<b>Ascaris</b>	causes ascariasis	infects humans through unwashed vegetables
<b>Pinworms</b>	commonly affects children	access the body through contaminated toys in the mouth
<b>Filarial Worms</b>	reside in mosquitoes, cause elephantiasis	live in the lymphatic system



Arthropods	
body composition	head - thorax - abdomen
thorax	the body part between the head and abdomen
exoskeleton	made of chitin
movement	by appendages that can grow by molting
respiration	Gills (aquatic) - book lungs (spiders) - tracheal tubes (beetles)
Excretory organ	Malpighian Tubules
Classes	crustaceans - arachnids - myriapods - insects
mouthparts	sponging/licking, siphoning, piercing/sucking, chewing
complete metamorphosis	egg - larva - pupa - adult
incomplete metamorphosis	egg - nymph - adult
inactive stage of metamorphosis	pupa

Flatworms	
symmetry	bilateral
cavity	acoelomates
body shape	flattened
excretory system	made of a network of tubules and flame cells

Flatworms (cont)		
Classes	turbellarians - trematodes - cestodes	
<b>Turbellarians</b>	free living freshwater flatworms	Ex: Planaria
<b>Trematodes</b>	parasitic and live within the host's blood	Ex: schistosoma (blood flukes)
<b>Cestodes</b>	parasitic worms with segmented bodies	Ex: tapeworms

Molluscs		
cavity	coelomates	
movement	muscular foot	
openings	2	
digestive tract	present	
mantle	a membrane that surrounds the organs and produces CaCO <sub>3</sub>	
Radula	rasping organ for feeding	
Classes	Bivalves - cephalopods - Gastropods	
<b>Gastropods</b>	foot located under the organism	Ex: Snail
<b>Bivalves</b>	shells are made of 2 parts	Ex: Oyster
<b>Cephalopods</b>	no foot, but have tentacles	Ex: Octopus

Echinoderms		
embryological development	deutrostomes	
habitat	marine	
skeleton	endoskeleton made of interlocking CaCO <sub>3</sub>	
water vascular system	central ring canal and radial canals	
movement	tubular feet	
symmetry (adult)	radial	
symmetry (larva)	bilateral	
<b>Asteroidea</b>	reproduces by regeneration	starfish
<b>Ophiuroidea</b>		brittle star
<b>Echinoidea</b>	have aristotle's lantern - are eaten by otters (mouthpart)	sea urchins
<b>Holothuroidea</b>	respiratory tree	sea cucumber
<b>concentri-cycloidea</b>		sea daisy



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Published 10th March, 2024.

Last updated 10th March, 2024.

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