

What students need to see & know for Lab #6
Mollusks and Annelids

Students should know **domain, kingdom, phylum, and class names** and **bold terms** in lab guide. When doing the dissections, be sure to understand the structures and their functions. Follow the instructions in the lab guide, plus those listed here.

Phylum Mollusca = mollusks (soft-bodied animals)

know common features to compare different Mollusks

work in pairs to dissect the clams according to the directions in the lab guide **Use photo atlas !!**

Molluskan diversity will be shown by observation of the following classes :

Bivalvia (bivalves) this class includes mussels, clams, scallops, clam model
preserved oyster shells, dissection of *Mercenaria* (*Venus*)

Gastropoda (note torsion & spiralling of shell)

preserved *Helix* (= terrestrial snail), *Limax* (= garden slug), *Busycon* (= marine whelk),
Aplysia (= sea hare), Conch shells, observe live snails in terrarium

look at slide of snail **radula** to see rows of teeth; radula is used for chewing & rasping

Polyplacophora several preserved chitons

Cephalopoda preserved *Octopus*, *Loligo* (squid) (do not dissect squids!!), squid model

Compare squid to clam and know squid parts that put squid in its phylum & class (e.g., foot, mantle, tentacles)

Phylum Annelida = annelids (segmented worms)

Class Oligochaeta

dissect earthworm as described in lab guide; be able to identify structures listed in **bold terms**
slide of earthworm c.s. : understand importance of **typhlosole** (inc surface area for absorption)

understand the typhlosole's placement in intestine & coelom

live earthworms can be taken out of terrarium and observed, but please return them (alive) !

Class Polychaeta e.g., preserved *Arenicola*, *Amphitrite* identify to class **see atlas !**

e.g., *Nereis* preserved whole organisms - identify **mouth** and **parapodia (parapodium)**

look at preserved slides of parapodia

Class Hirudinea preserved slides, preserved, and live *Hirudo* (leech)

Compare movement of leeches to that of earthworms and *Planaria* from last week.