

LAB 6: DIVERSITY—INVERTEBRATE ANIMALS

PURPOSE: Learn the characteristics of different groups of animals

Goals for all specimens viewed today:

- * Be able to identify any specimen by name, phylum, kingdom.
- * Characterize each phylum by anatomical features for classification (Table 27.1)
- * For each specimen define specific features of anatomy, life cycle and habit.

p. 377-381 Kingdom Animalia: Introduction and classification
SKIP PHYLUM PORIFERA (SPONGES)

p. 384-387 Section 27.3 Phylum Cnidaria

- ___ view Cnidarian diversity
- ___ sample living *Hydra sp.* in watchglass, including plenty of water (*do not make slide of Hydra sp.*)
- ___ feed *Daphnia sp.* (a small crustacean)
- ___ demonstration slide of hydra cross-section (compare to Fig. 27.5)

SKIP OBELIA

p. 388-391 Section 27.4 Phylum Platyhelminthes (flatworms)

SKIP DIVERSITY OF FLATWORMS

- ___ sample living *Planaria sp.* in watchglass, cover bottom with water
- ___ feed egg yolk
- ___ demonstration slide of *Planaria sp.* cross-section showing pharynx internally
- ___ Table 27.5 SKIP PHYLUM NEMOTODA (ROUNDWORMS)
- ___ Table page 393: Cnidaria and Platyhelminthes only.

Good review: p. 394 #1,4-9, 12-14, 18, 19.

*note: above 2 groups are acoelomate. Following 2 groups are coelomate.

p. 395 Introduction to coelomate animals

p. 396-402 Section 28.1 Phylum Mollusca (mollusks)

- ___ view Molluscan diversity
- ___ view anatomy of clam at your desk **do not cut and handle very gently**
- ___ view anatomy of squid (demo at bench)
- ___ Table 28.2 SKIP PHYLUM ANNELIDA (SEGMENTED WORMS)

p. 409-411 Section 28.3 Phylum Arthropoda

- ___ view diversity of arthropods
- ___ dissect crayfish at your desk SKIP ANATOMY OF GRASSHOPPER
- ___ Table 28.6: crayfish only

Good review: p. 418 #1-8, 12

