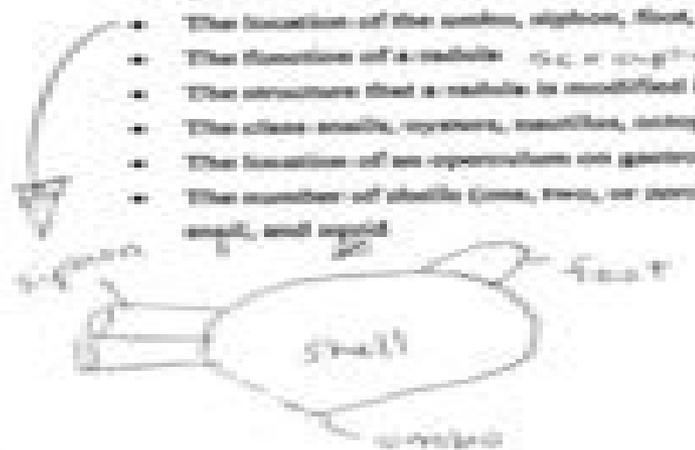


Unit 5 Zoology Study Guide

- How many species, roughly, are there in phylum Mollusca? ~100,000
- What are the two main regions of a mollusk body? head-foot + visceral mass
- Which part of a Mollusk secretes the shell? mantle
- What is the function of the radula? scraping
- most Gastropods are snails, slugs, and nudibranchs.
- What is the term for the 180 degree twisting that occurs in snails? torsion
- What is the name of the part of a mollusk that seals the gastropod shell? operculum
- clams, oysters, and mussels are members of the class Bivalvia.
- The most complex Mollusks belong to class Cephalopoda.
- How do cephalopods locate prey? eyes
- Vertebrate eyes and cephalopod eyes are very similar. This is an example of convergent evolution.
- Chromatophores are pigment cells of cephalopods.
- Scapulopoda are the tooth shells.
- Mollusks have a wide variety of body forms and fill many different niches. This is an example of adaptive radiation.
- adductor muscles close the bivalve shell. (from clam lab)
- Monoplacophora is a mollusk class that was only known as fossils until 1951.

Other Things to Know:

- The scientific name of the Eastern Oyster: *Crassostrea virginica*
- The scientific name of the Northern Quahog: *Mercaenaria mercenaria*
- The location of the mantle, siphon, foot, and shell of a bivalve
- The function of a radula: scraping
- The structure that a radula is modified into in cephalopods: beak
- The class snails, oysters, nautilus, octopus, nudibranch, slug, and clam belong to Mollusca
- The location of an operculum on gastropods: "trap door"
- The number of shells (one, two, or none) and class of the following: nudibranch, clam, nautilus, octopus, scallop, snail, and squid



oyster, clam = bivalve
 octopus, nautilus = cephalopod
 nudibranch, slug = gastropod

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