

Marine Biology Chapter 6: Study Guide

- Vocabulary

Animals	Vertebrates	Vertebrae
Animalia	Backbone	Invertebrates

Sponges

- Vocabulary

Sponges	Osculum	Encrusting sponges
Sessile	Suspension feeders	Glass sponges
Porifera	Filter feeders	Boring sponges
Pore cells/porocytes	Spicules	Coralline sponges
Collar cells	Spongin	Bath sponges

- Know the general characteristics of a sponge including basic structure
- Know the differences between the five types of sponges

Cnidarians

- Vocabulary

Cnidarians	Medusa	Hydrozoans
Radial symmetry	Tentacles	Scyphozoans
Oral surface	Nematocysts	Anthozoans
Aboral surface	Ectoderm	
Polyp	Endoderm	

- Know the general characteristics of a cnidarian including basic structure
- Be able to recognize the two body plans: polyp or medusa
- Know the differences between the three main types of cnidarians
- Know the blue box *The Case of the Killer Cnidarians* on page 110

Bilaterally Symmetrical Worms

- Vocabulary

Bilateral symmetry	Parasites	Segmented worms
Posterior	Tapeworms	Annelids
Anterior	Ribbon worms	Segmentation
Dorsal	Proboscis	Parapodia
Ventral	Nematodes	
Flatworms	Roundworms	

- Know the general characteristics of a bilaterally symmetrical worm
- Know the differences between flatworms, ribbon worms, nematodes and segmented worms
- Know the blue box *How to Discover a New Phylum* on page 114

Molluscs

- Vocabulary

Molluscs	Gastropods	Siphons
Radula	Sea slugs	Byssal threads
Foot	Bivalves	Cephalopods

Funnel

- Know the general characteristics of mollusks
- Know the differences between gastropods, bivalves and cephalopods and be able to give examples of all three

Arthropods

- Vocabulary

Arthropods	Cephalothorax	Compound eyes
Exoskeleton	Abdomen	Horseshoe crabs
Molt	Shrimps	Sea spiders
Crustaceans	Lobsters	Insects
Carapace	Scavengers	
Decapods	Maxillipeds	

- Know the general characteristics of arthropods
- Know the differences between shrimps, crabs, lobsters, horseshoe crabs, sea spiders and marine insects

Echinoderms

- Vocabulary

Echinoderms	Brittle stars	Crinoids
Endoskeleton	Sea urchins	Regeneration
Tube feet	Sea cucumbers	
Sea stars	Evisceration	

- Know the general characteristics of echinoderms
- Know the differences between the five types of echinoderms

Chordates

- Vocabulary

Chordate	Gill slits	Tunicates
Chordates	Notochord	Sea squirts
Nerve cord	Protochordates	Lancelets

- Know the three things that a chordate must have
- Know the two types of invertebrate chordates and what they are called