**Aquatic Science Spring Final Exam Review**

**Taxonomy to be familiar with:**

Phylum Porifera

 Class Hexactinellida

 Class Calcarea

 Class Demospongiae

Phylum Cnidaria

 Class Anthozoa

 Class Cubozoa

 Class Hydrozoa

 Class Scyphozoa

 Class Staurozoa

Phylum Ctenophora

Phylum Platyhelminthes

Phylum Nemertina

Phylum Gastrotricha

Phylum Rotifera

Phylum Acanthocephala

Phylum Bryozoa

Phylum Nematoda

Phylum Nematomorpha

Phylum Mollusca

 Class Monoplacophora

Class Aplacophora

Class Polyplacophora

Class Bivalvia

 Class Gastropoda

 Class Scaphopoda

 Class Cephalopoda

Phylum Priapulida

Phylum Sipuncula

Phylum Annelida

Phylum Arthropoda

 Class Crustacea

 Class Merostomata

Phylum Echinodermata

 Class Asteroidea

 Class Ophiuroidea

 Class Echinoidea

 Class Crinoidea

 Class Holothuroidea

Phylum Hemichordata

Phylum Chordata

 Subphylum Urochordata

 Subphylum Cephalochordata

 Subphylum Vertabrata

 Class Agnatha

 Class Chorndrichthyes

 Class Osteichthyes

 Class Amphibia

 Class Reptilia

 Order Crocodylia

 Order Squamata

 Order Chelonia

 Class Aves

 Class Mammalia

 Order Cetacea

 Suborder Mysteceti

 Suborder Odondoceti

 Order Pinnipedia

 Order Sirenia

 Order Fissipedia(Carnivora)

 Family Ursidae

 Family Mustelidae

**Vocabulary to be familiar with:**

* Amimal
* Balen
* Bilateral symmetry
* Cartilage
* Chitin
* Cnidoblast
* Countershading
* Cryptic coloration
* Drag
* Echolocation
* Ectotherm
* Endotherm
* Exoskeleton
* Gas exchange
* Gill membranes
* Hermatypic
* Invertebrate
* Lateral line system
* Medusa
* Metamerism
* Molt
* Notochord
* Osmoregulation
* Oxygen revolution
* Phylum
* Polychaeta
* Polyp
* Radial symmetry
* Salt glands
* Schooling
* Suspension feeder
* Swim bladder
* Teleostei
* Tunicate
* Turbulence
* Vertebrate
* Viscosity
* Water vascular system
* Zooxanthellae

**Concepts to be familiar with:**

What makes an animal an animal?

What caused life to finally evolve past primitive bacteria?

What are protozoans?

Which two invertebrate phyla have the most species?

What type of symmetry do Echinoderms have?

What are arthropod skeletons composed of?

What is the evolutionary order of the vertebrates?

What allowed agnathans to evolve into chondrichthyes?

List three differences between chondrichthyes and osteichthyes?

How do water and blood move through fish gills?

Why did we not discuss amphibians in class?

What advancement allowed amphibians to evolve into reptiles?

What are some characteristics of marine turtles?

What are some characteristics of sea snakes?

What are some characteristics of marine birds?
What are some characteristics of cetaceans?

What are some differences between mysticetes and odontocetes?

What is the largest mysticete?

What is the largest odontocete?

What is the largest dolphin?

What is a narwhal?

How long ago did terrestrial mammals begin moving back into the oceans?

What are two differences between penguins and puffins?

Where are polar bears found?

What are three differences between seals and sea lions?

In which habitat are sea otters and purple urchins found?