

Survey of Marine Invertebrates Project

Introduction: By now, you have undoubtedly noticed the huge number of marine invertebrate species that live in the ocean. During the course of this project you will get to know a few of them in depth. Pick out five organisms that belong to the phyla and classes that you are studying in chapter 7. Each of the five organisms must belong to a different phylum or class and not chosen by another member in class. You will have a week to research your species using the textbook, internet, library, etc. When finished, you will have a chance to share with your group what you have learned about your species.

Extra Credit: You may choose an additional five organisms to research and report on. These must be different from the species chosen by anyone else in class.

Phyla and Classes:

- Phylum Porifera
- Phylum Cnidaria
 - Class Hydrozoa
 - Class Scyphozoa
 - Class Anthozoa
- Phylum Ctenophora
- Phylum Platyhelminthes
- Phylum Nemertea
- Phylum Nematoda
- Phylum Annelida
 - Class Polychaeta
- Phylum Mollusca
 - Class Gastropoda
 - Class Bivalvia
 - Class Cephalopoda
 - Class Polyplacophora
- Phylum Arthropoda
 - Subphylum Crustacea
- Phylum Ectoprocta
- Phylum Echinodermata
 - Class Asterozoa
 - Class Ophiurozoa
 - Class Echinozoa
 - Class Holothurozoa
- Phylum Chordata
 - Subphylum Urochordata



Requirements:

For each organism that you choose, create a one-page fact sheet. You will use your textbook, the internet, and your powers of observation to learn all about each particular species. You will need to include the following information for each animal:

1. A picture of your organism
2. The taxonomy of the organism:
 - Domain: All of the organisms in Chapter 7 are eukaryotes and are in the Domain Eukarya.
 - Kingdom:
 - Phylum:
 - Class (if known):
 - Scientific and common name: e.g. Caribbean sea star, *Echinaster sentus*
3. The lifestyle of the organism:
 - Symmetry:
 - For example: Spherical, Asymmetrical, Radial symmetry, or Bilateral symmetry
 - Feeding Strategy:
 - For example: Suspension Feeder, Deposit Feeder, Grazer, Absorption, Predation, or Scavenging
 - Diet: what does it eat?
 - Is it Benthic or Planktonic or Nektonic?
 - Habitat: where in the world does it live?
 - Locomotion:
 - For example: Sessile, Swimming (even if weakly), Crawling (moving along the bottom or other surfaces), or Burrowing (moving within the bottom sediments)

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Grading Key – 50 pts possible

50 pts. – five animals (10 pts. each)

Deduct 1 pt. if they are missing:

- Picture
- Common and scientific name
- Taxonomy (Domain, Kingdom, Phylum, Class (if known))
- Lifestyle (Symmetry, Feeding Strategy, Diet, Benthic/Planktonic/Nektonic?, Habitat, Locomotion)

20 pts. extra credit – if they do five more animals (4 pts. each)

Deduct 1 pt. if they are missing:

- Picture
- Common and scientific name
- Taxonomy (Domain, Kingdom, Phylum, Class (if known))
- Lifestyle (Symmetry, Feeding Strategy, Diet, Benthic/Planktonic/Nektonic?, Habitat, Locomotion)