

## Sponge and Cnidarian Question Set

**Introduction:** Scientists have identified and named more than 1.8 million species of animals. It is estimated that there are another 3 million to 30 million more to identify. Animals are classified into two major groups; vertebrates and invertebrates. Invertebrates are classified as animals without a backbone and make up about 97% of all animal species.

Directions: Answer the questions below using the resources on the class website or any of the materials you were given in class, in your notebooks. Number the questions and either use the resources on the class website, the handouts you have been provided, or the links in the titles of the organisms below.

### **Sponges:**

1. What Kingdom and Phylum do sponges belong to?
2. List four different Classes of sponges.
3. How many known species of sponges are there?
4. List five different body shapes that sponges can have.
5. What do sponges eat? How does their structure relate to the types of food they eat?
6. How do sponges eat?
7. What is the name of the specialized cell where food is collected?
8. Define Benthic
9. Define Porifera

### **Cnidarians:**

10. Where does the word Cnidarian come from and what does it mean?
11. Name the four major groups of Cnidarians and list an example of each.
12. Click on the links of each of the four groups of Cnidarians and sketch one example animal from each group.
13. Why are Cnidarians considered simple but deadly?
14. List the two different body types of Cnidarians and sketch an example of each.
15. What is the coiled thread-like stinger that all Cnidarians have called?
16. Describe how the nematocyst protects the animal.
17. Are Cnidarians deadly to humans? Why or why not?
18. What is unique about the life cycle of Cnidarians?
19. Describe what the nervous system of Cnidarians is like?