Zoologist \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Animal Diversity Webquest**

*Go to the Animal Diversity Web website –* [*http://animaldiversity.ummz.umich.edu*](http://animaldiversity.ummz.umich.edu)

**Part A: Click on “Annelida”**

1. What are 2 examples?
2. What is segmentation also called?
3. What is the advantage to having segments?
4. Describe the circulatory system.
5. Describe the nervous system.
6. Where can members of this phylum be found?

*Click “Home”*

**Part B: Click on “Ecinodermata”**

1. How many echinoderms are living today?
2. Describe the habitat of echinoderms.
3. What type of symmetry do they show?
4. Echinoderms have an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ skeleton.
5. Describe their water vascular system.
6. Are echinoderms mostly hermaphrodites? (*Yes* or *No*).
7. Why do echinoderms move?
8. What do echinoderms eat?
9. What is their role in their ecosystem?

*Click “Home”*

**Part C: Click on “Porifera”**

1. How many living species are known worldwide?
2. Do sponges have specialized cells? (*Yes* or *No*).
3. Do sponges have tissues? (*Yes* or *No*).
4. Describe sponge asexual reproduction.
5. Describe sponge sexual reproduction.
6. What is the sponge habitat?
7. What is sponges role in its ecosystem?

*Click “Home”*

**Part D: Click “Actinopterygii”**

1. What are the largest and most successful group of fishes and makes up more than half of all living vertebrates?
2. Describe ray-finned fishes’ geographic range.
3. Describe 3 sensory systems of ray-finned fish.
4. What are the 4 major types of mating systems ray-finned fishes exhibit? Describe.
5. What is the average lifespan for a minnow? Large mouth bass? Rockfish?
6. Describe the ray-finned fishes role in its environment.
7. What are the positive and negative economic importance for ray-finned fish and humans.

*Click “Home”*

**Part E: Click “Reptilia”**

1. What are amniotes?
2. What are 4 characteristics common to all reptiles?

*Click “Home”*

**Part F: Click “Aves”**

1. What are 6 characteristics common to all modern birds?

*Click “Home”*

**Part G: Click “Insecta”**

1. What animals account for the vast majority of animal species on earth?
2. What are 5 characteristics most insects share?
3. How do insects exchange gasses?
4. Describe an insect’s nervous system.
5. Describe insect’s internal fertilization.
6. How are insects important to humans?

*Click “Home”*

**Part H: Click “Cnidaria”**

1. What type of symmetry do cnidarian’s show?
2. Do they have tissues? Organs?
3. What is a medusa?
4. What is a polyp?
5. What are nematocysts?

*Click “Home”*

**Part I: Click “Mammals”**

1. What 3 characteristics do mammals have that no other animals have?
2. Name 3 functions of mammalian hair:
3. Mammals are characterized by their highly differentiated \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. Mammals have \_\_\_\_\_\_\_ chambered hearts.
5. What are the three major groups of mammals? Describe.
6. What percentage of mammals are monogamous? What does it mean to be monogamous?
7. Describe one way that mammals communicate with each other.
8. What role do mammals play in their ecosystem?

*Click “Home”*