Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The Shape of Life – Sponges

Guided Notes

1. What kingdom are sponges in?
2. What are the 3 branches of science that weave together to give us a good picture of how animals evolved/how they are related?
3. Who came up with the binomial nomenclature “two name naming” system?
4. How long did unicellular life dominate the planet?
5. What are some characteristics of the first animal?
6. Are sponges solid?
7. Do sponges have a particular body shape?
8. Approximately how many species of sponges are there?
9. Where can sponges live?
10. What are some characteristics of animals in general?
11. Diving and observing sponges is one way to learn about them. What is another way that is mentioned?
12. What is special about sponge cells?
13. What happens if a sponge is put through a sieve?
14. What protein helps hold cells together, and makes the soft skeleton of a sponge?
15. What makes up the hard skeleton of a sponge?
16. How can you identify a particular species of sponge?
17. How do sponges get their food?
18. How much water must be pumped through the sponge to get an ounce of food?
19. What are some jobs that sponge cells carry out?
20. What sponge cells have flagella?
21. What is the purpose of the flagella on these cells?
22. Do sponges reproduce sexually or asexually?
23. What is special about the Venus sponge and shrimp?
24. Are all sponges filter feeders?
25. If organisms have only a few difference in their genome, what does that mean?