Worksheet for the Muscle Systems of the Nine Phyla

*Bartek Bzura, Terrence Navin, Ryan McGraw*

1. The monarch’s butterfly system is split into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ sections.

2. List the sections:

3. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ sucks nectar out of flowers.

4. Very powerful muscles that are responsible for flight are located in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5. True or False: The abdomen allows flexibility and stability during flight.

6. True or False: The muscular system of the American lobster contains three types of muscles.

7. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ claw is the lobster’s largest claw.

8. The muscle fibers of a scorpion are intertwined with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

9. The scorpion has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ pairs of segmented legs.

10. The abdomen of the scorpion is separated into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ segments.

11. The tail muscles are separated into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ segments.

12. The muscle system of the starfish is know as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system.

13. In this system, the starfish's tube feet are pressed against a moving object where water enters through the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

14. The orange-footed sea cucumber uses the same muscular system as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

15. The red muscle of a shark is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

16. The white muscle is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

17. The Giraffe's \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ legs are longer than their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ legs.

18. The lion’s mane has a very \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscular system.

19. Jellyfish are mainly composed of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscles.

20. The Jack-Sail-by-the-Wind swims by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

21. Many small \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ aid in catching plankton.

22. True or False: Fire Coral is not actually Coral.

23. True or False: Fire Coral has no muscles.

24. A flatworm has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ layers of muscles.

25. True or false: The tapeworm's muscular system is composed of layers and layers of boxy, wavy, and abstract muscles.

26. True or False: Planarian use the muscles of the body wall to move along.

27. The outer layer of Planeria’s body wall are composed of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscles.

28. The second layer is composed of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscles.

29. Monogenea are small \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organisms.

30. They are usually found on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of fish.

31. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ layer of muscles are closest to the epidermis.

32. The innermost layer of muscle within a leech is called the dorsoventral muscle.

 33. Over \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ species of polychaete worms have been identified so far.

34. True or False: Some polychaete worms can extend up to 3 meters in length.

35. Sponges are the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ form of multicellular animals.

36. True or False: Sponges live in cold water.

37. True or False: A sponge stays in the same spot for its whole lifetime.

38. The snail is composed of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ main parts.

39. Two of these parts are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

40. True or False: Snails have a thick shell composed of one layer.

41. True or False: An octopus has an external skeleton.

42. True or False: An octopus has an internal skeleton.

43. Mussels can live up to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years.

44. True or False: There are millions of species of mussels know.

45. Venus flower basket are know as glass sponges because their bodies are made completely out of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

46. True or False: Venus Flower Baskets have muscles.

47. Roundworms are usually found in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

48. The long muscles are along the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the worm.

49. The color of a threadworm is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

50. True or False: Eelworms are 2 feet long on average.