

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



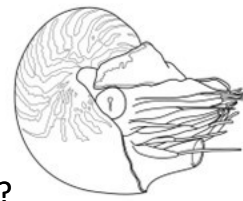
Shape of Life

## SHAPE OF LIFE: MOLLUSCA

1. List 5 mollusks that you see in the first few minutes of the video.
2. According to the narrator, how many species of mollusks exist today? \_\_\_\_\_
3. Mollusks are often the target of predators. Why do predators choose mollusks as a food source? \_\_\_\_\_
4. Most mollusks, such as the abalone, have a \_\_\_\_\_ for movement.
5. To eat, most mollusks have a rasping, sand-paper like tongue called a \_\_\_\_\_.
6. Which structure covers the organs of the mollusk and secretes the shell? \_\_\_\_\_
7. Based on the mollusks that you have seen so far, do all mollusks have an external shell? Which don't?
8. How is the shell of the leafy hornmouth adapted to avoid predation?
9. Describe the foot of the abalone and how it enables movement.
10. How does the cockle use its foot to avoid predation by the moon snail?
11. How does the moon snail use its foot to capture and feed upon a buried cockle?
12. Describe the radula and what it is used for.
13. Which mollusk evolved to leave the bottom of the ocean and swim? \_\_\_\_\_
14. How many tentacles does a nautilus have to capture prey? \_\_\_\_\_



15. How do nautilus swim?



16. Why is the body plan of a nautilus outdated compared to the evolving fish in the sea?

17. To gain speed, what did squid have to sacrifice?

18. Squid today still have a narrow remnant of their shell called a pen. What does this modified shell provide to a squid?



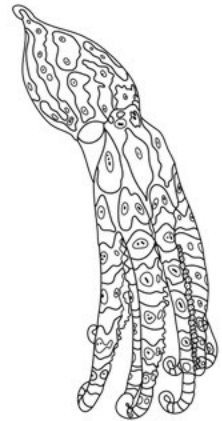
19. How fast can some squid travel? \_\_\_\_\_

20. How are squid superior to the mollusks that came before them?

21. How many blood-pumping hearts does every squid have? \_\_\_\_\_

22. What "impressive weapon" do octopuses possess that sets them apart from other mollusks?

23. How did octopuses change and adapt to survive on the bottom?



24. How does the blue-ringed octopus warn predators of its poison?

25. As you watch the octopuses, how do they use their arms to move?

26. How have mollusks endured for so long under constantly changing environments?

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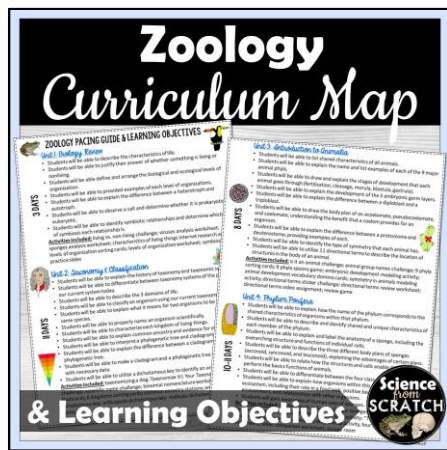
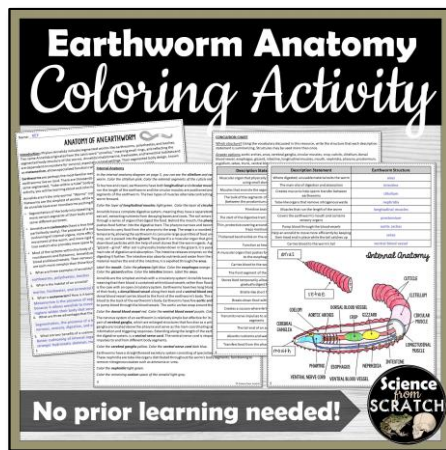
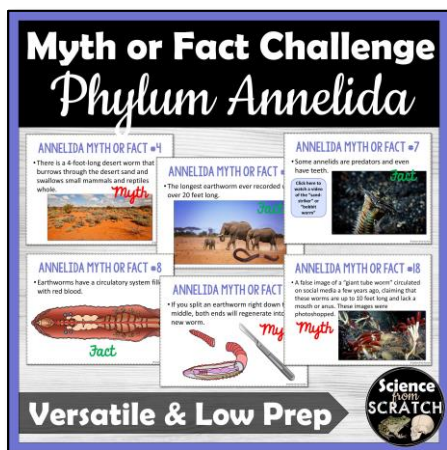
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