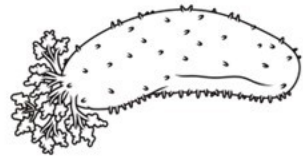


Name: _____



SHAPE OF LIFE: ECHINODERMATA

1. What are some familiar echinoderms that you see recognized in the first minute of the video?



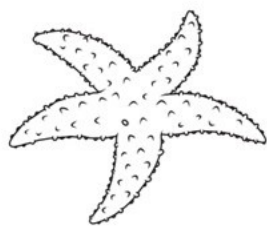
2. What type of symmetry do sea stars and other echinoderms have?

3. If you curl the 5 arms of a sea star up, which sphere-like echinoderm does it resemble?

4. If you turn an urchin on its side and stretch it out, which tube-like echinoderm results?

5. How many bony platelets make up the endoskeleton of a sea star? _____

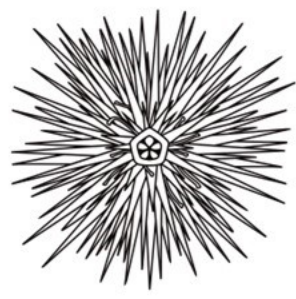
6. What joins the bone platelets together, allowing the arms to extend and flex, as well as to lock in place for hours if necessary?



7. Describe the nervous system of an echinoderm.

8. What do urchins eat?

9. How do urchins know where they are going in the water?

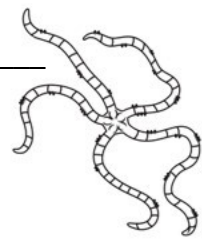


10. Describe how the sea urchin eats kelp.

11. True or False: Sea cucumbers are sessile, unable to move along the sea floor. _____

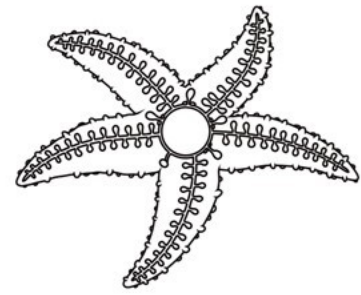
12. How do sea cucumbers eat?

13. Which echinoderms form a fuzzy carpet along the sea floor? _____



14. How do brittle stars eat?

15. How do the tube feet extend to walk the sea star along the ocean floor?



16. What do the sensory tube feet at the tip of each arm sense? _____

17. What additional sensory organ is located at the tip of each arm? What can it sense?

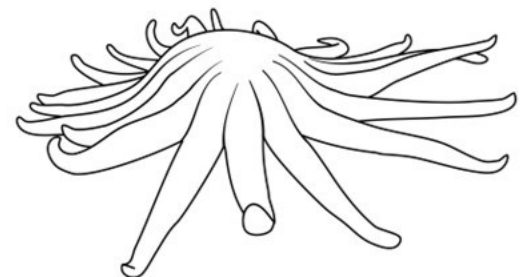
18. How do sea stars eat? Describe the process in detail, explaining how different structures of the echinoderm play a role in the process.



19. How many arms can *Pycnopodia* have? _____

20. Which prey does *Pycnopodia* hunt? _____

21. In their marine habitats, are echinoderms successful or unsuccessful animals?



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LOOKING FOR MORE ZOOLOGY RESOURCES?

Myth or Fact Challenge Phylum Echinodermata

ECHINODERMATA MYTH OR FACT #1
• Starfish are a type of fish. **Myth**

ECHINODERMATA MYTH OR FACT #2
• The prey of a sea star is too large to fit in their mouth, so they shoot their stomach out to digest the food externally. **Fact**

ECHINODERMATA MYTH OR FACT #3
• Echinoderms have an exoskeleton. **Myth**

ECHINODERMATA MYTH OR FACT #4
• Sea urchins have teeth. **Fact**

ECHINODERMATA MYTH OR FACT #5
• Echinoderms can regenerate a missing or ray. **Fact**

ECHINODERMATA MYTH OR FACT #6
• Sea urchin and sea cucumber meat is toxic to humans. **Myth**

ECHINODERMATA MYTH OR FACT #7
• Echinoderms can regenerate a missing or ray. **Fact**

ECHINODERMATA MYTH OR FACT #8
• Echinoderms can regenerate a missing or ray. **Fact**

ECHINODERMATA MYTH OR FACT #9
• Echinoderms can regenerate a missing or ray. **Fact**

ECHINODERMATA MYTH OR FACT #10
• Echinoderms can regenerate a missing or ray. **Fact**

Versatile & Low Prep

Sea Star Anatomy Coloring Activity

ANATOMY OF A SEA STAR

See Star, External Anatomy

See Star, Internal Anatomy

Miller-Nelson System

No prior learning needed!

Zoology Curriculum Map & Learning Objectives

ZOOLOGY PACING GUIDE & LEARNING OBJECTIVES

Unit 1: Zoology Basics

Unit 2: Taxonomy & Classification

Unit 3: Introduction to Domestic

Unit 4: Phylum Protista

& Learning Objectives

MANY THANKS TO THE AMAZING ARTISTS WHOSE WORK IS INCORPORATED INTO THIS RESOURCE:

