



# Invertebrates - Animals without Backbones

Sci  
D

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**Animals** can be **classified**, or grouped together, by the things they have in common, like by how they act, where they live, or how they look. Scientists separate animals into **two main groups** called **vertebrates** and **invertebrates**.

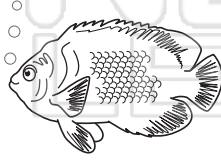
**Vertebrates** are animals that have a **backbone**. There are 5 major groups:



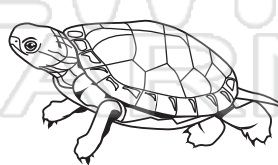
birds



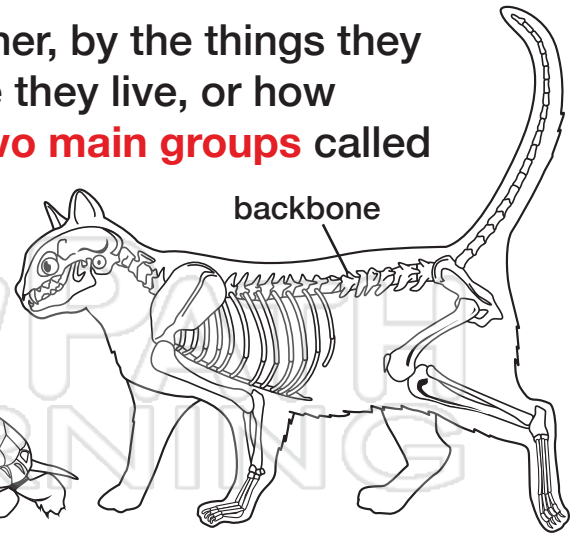
amphibians



fish



reptiles



mammals

Invertebrates have living cells called...



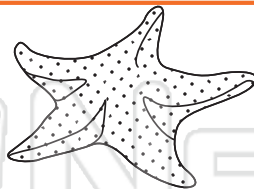
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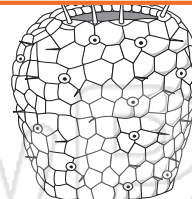
### arthropods

Include insects, crabs, centipedes, millipedes & spiders. Arthropods have skeletons on the outside of their bodies. They have **segmented bodies & jointed legs**.



### echinoderms

Include starfish, sea urchins & sand dollars. Echinoderms live in the ocean and show **radial symmetry**.



### sponges

Sponges remain in one place for most of their life cycle, attached to rocks underwater.

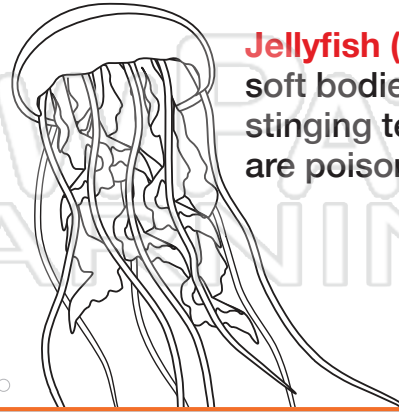
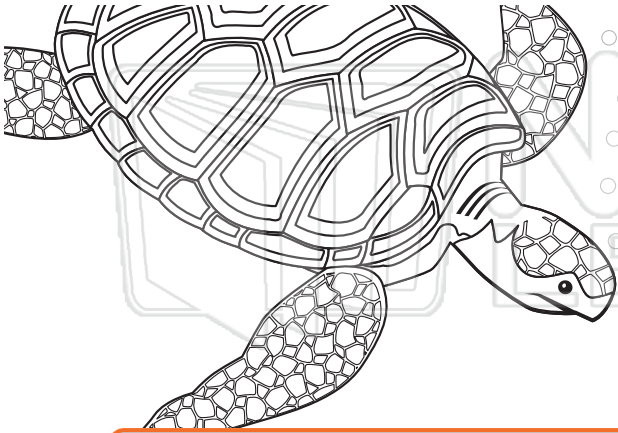
### cnidarians

Include hydra, sea anemones & jellyfish. All cnidarians have **stinging cells** which they use to catch food.



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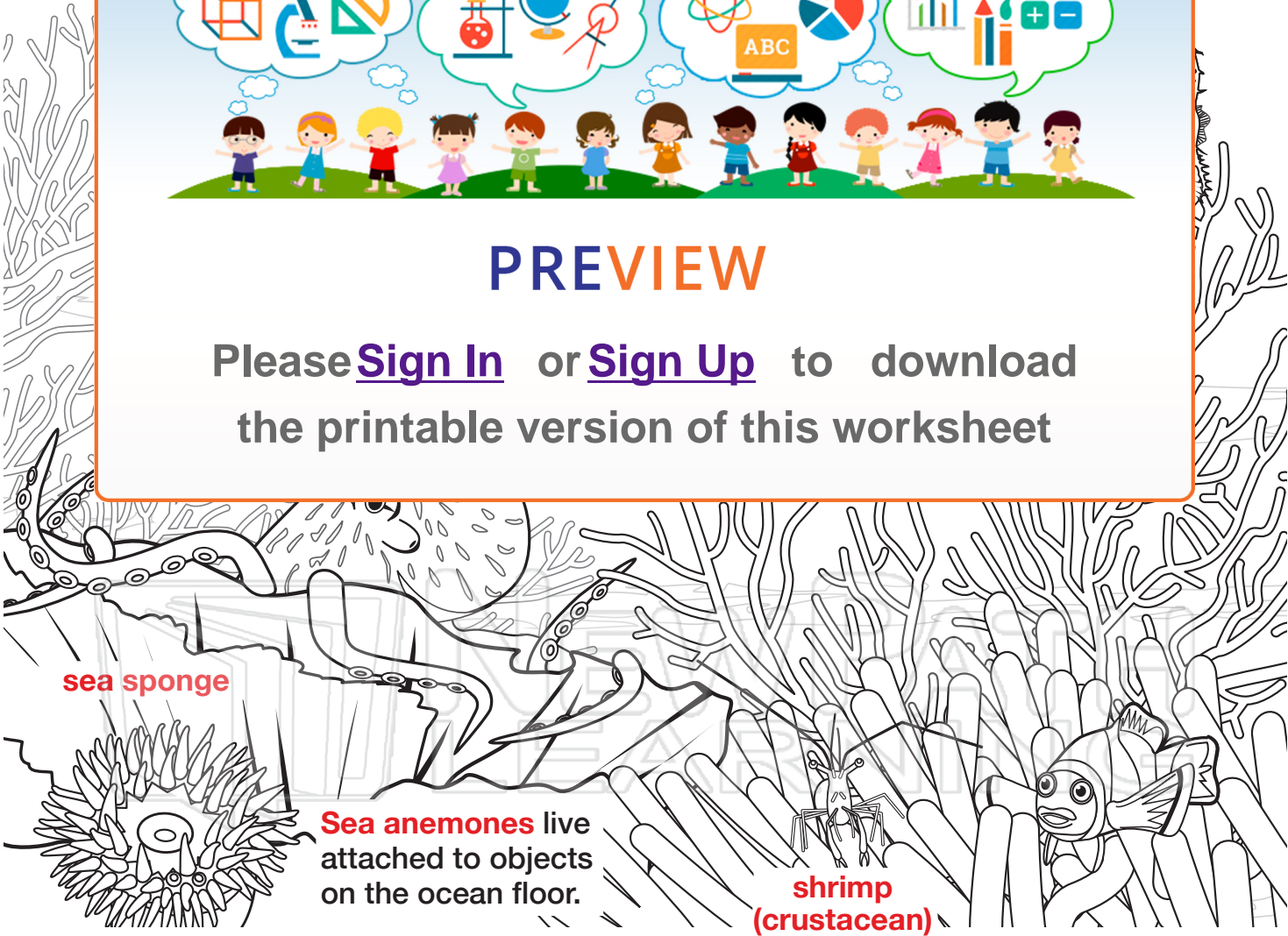
Many invertebrates live in water. **Coral reefs** live in warm, shallow sea waters. Coral reefs provide a protective living environment for a large variety of vertebrate and **invertebrate marine life**.



**Jellyfish (cnidarian)** have soft bodies and long stinging tentacles that are poisonous.

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**sea sponge**

**Sea anemones** live attached to objects on the ocean floor.

**shrimp (crustacean)**



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Draw animals in this ocean habitat.  
Label them with the group of **invertebrates** they belong to.



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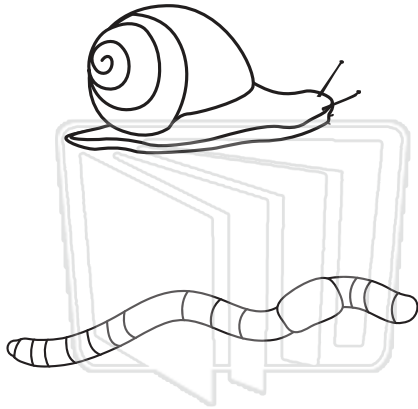


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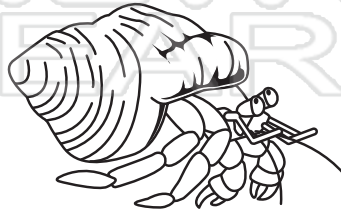
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Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

Draw a line to match each animal with the correct group.



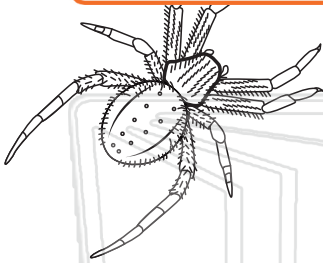
worms



sponges

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arthropods

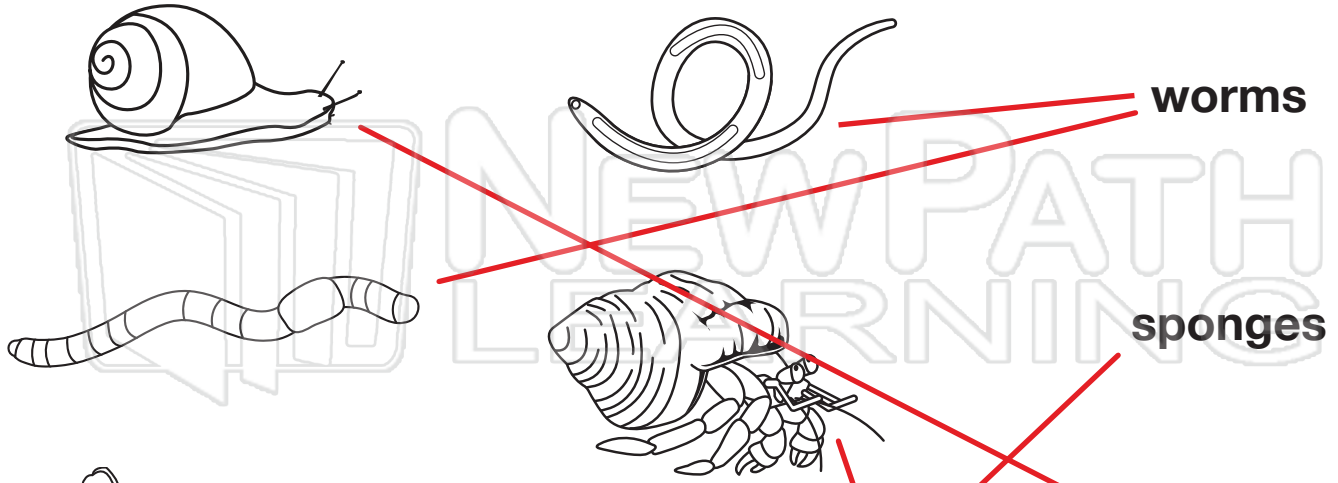
These animals are all \_\_\_\_\_ because they do not have \_\_\_\_\_.





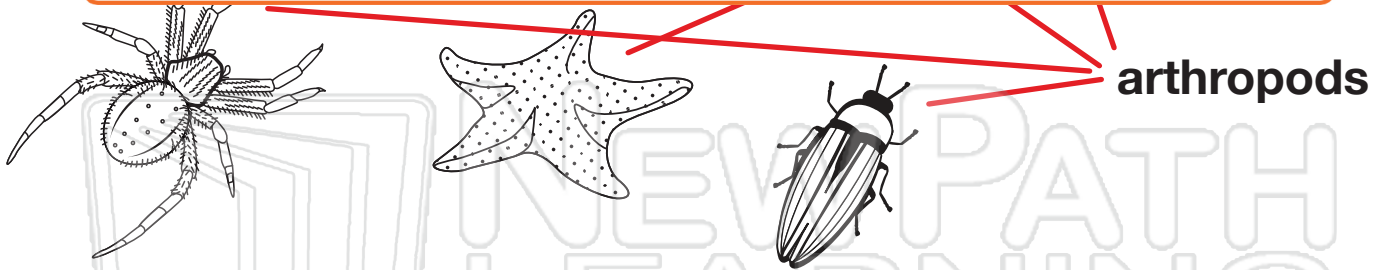
## Answer Key

Draw a line to match each animal with the correct group.



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These animals are all invertebrates because they do not have backbones.