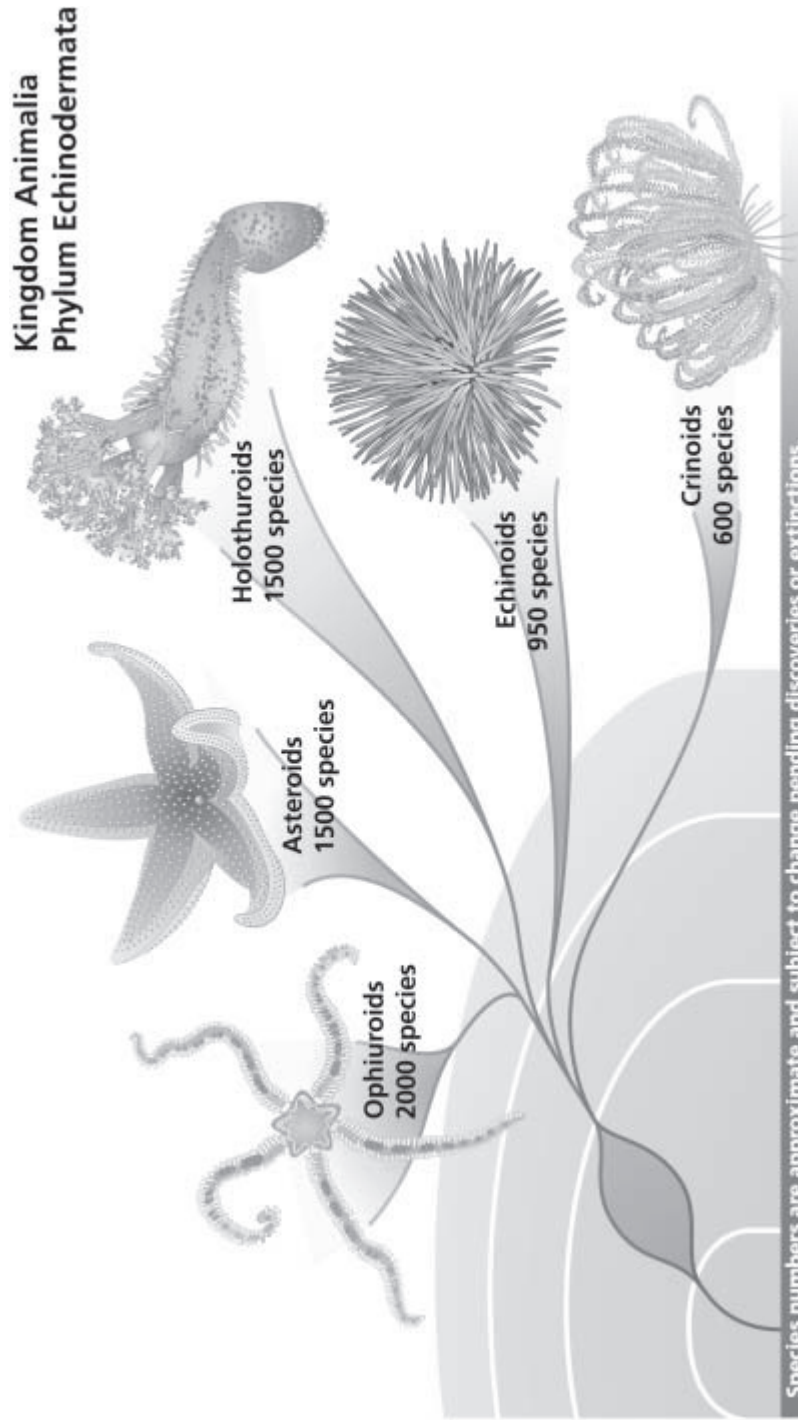


**Master**  
**51**

**Basic Concepts**

**Phylogeny of Echinoderms** *Use with Chapter 29, Section 29.1*



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## Worksheet

## 51

**Phylogeny of Echinoderms** *Use with Chapter 29, Section 29.1*

## Basic Concepts

1. What is the oldest group of living echinoderms? Give an example.  
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\_\_\_\_\_
2. To which class of echinoderms do sea urchins belong?  
\_\_\_\_\_  
\_\_\_\_\_
3. What characteristics of ophiuroids increase the probability that they will escape from the attack of a predator?  
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\_\_\_\_\_
4. To which class are the ophiuroids most closely related? Explain your reasoning.  
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\_\_\_\_\_
5. In what way are sea lilies unique among the echinoderms?  
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\_\_\_\_\_
6. Explain the significance of the “bulge” in the phylogenetic tree during the Paleozoic era.  
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\_\_\_\_\_
7. Why do scientists believe that echinoderms might be the closest invertebrate relatives of the chordates?  
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