

**Protists and Fungi** ▪ *Guided Reading and Study*

## Algal Blooms

*This section describes how the rapid growth of algae affects ocean water and fresh water.*

### Use Target Reading Skills

*As you read, compare and contrast the two types of algal blooms in the table below.*

**Algal Blooms**

Properties	Saltwater Blooms	Freshwater Blooms
<b>Causes</b>	Increase in nutrients or temperature	
<b>Effects</b>		

### Saltwater Blooms

- Circle the letter of each sentence that is true about saltwater algal blooms.
  - Saltwater algal blooms are commonly called red tides.
  - The water is red during a red tide because of toxins produced by the algae.
  - Red tides are never any other color but red.
  - Dinoflagellates and diatoms are two kinds of algae that often cause red tides.
- List two conditions that often cause red tides to occur.
  - \_\_\_\_\_
  - \_\_\_\_\_

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**Algal Blooms** *(continued)*

3. Why are red tides dangerous to people and other organisms?

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**Freshwater Blooms**

- 4. In a process called \_\_\_\_\_ nutrients, such as nitrogen and phosphorus, build up in a lake or pond over time, causing an increase in the growth of algae.
- 5. Complete the following flowchart to show what occurs when algae grow rapidly in a pond or lake.

**Eutrophication**

Algae on the water's surface prevent \_\_\_\_\_  
from reaching plants and other algae underwater. These plants  
\_\_\_\_\_ and sink to the bottom.



\_\_\_\_\_ that break down the remains of the dead  
plants increase in number and use up all the \_\_\_\_\_  
in the water.



Fish and other organisms \_\_\_\_\_ without the  
\_\_\_\_\_ they need to survive.