

Name \_\_\_\_\_ Block 1 3 4 5

# *Water quality:* **PROPERTIES**

Make sure to have at least 3 facts that help you understand each property AND write at least two questions you could answer from each poster.

<b>PROPERTY</b>	<b>IMPORTANT FACTS</b>	<b>AT LEAST 2 QUESTIONS</b>
<b>COLOR</b>		
<b>DISSOLVED OXYGEN</b>		
<b>PH</b>		
<b>TURBIDITY</b>		
<b>SEDIMENT</b>		
<b>HARDNESS</b>		
<b>TEMPERATURE</b>		

# Read, answer, & DEFEND

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Circle the correct answer, then in the space beside the question, explain your reasoning for selecting that answer choice, **PROVING** it is correct.

Many home cleaning products contain phosphates. If wastewater containing excess phosphates drains into a pond, the phosphates encourage the growth of algae. How might this change in a pond's ecosystem affect the quality of life for other living things in the pond?

- A. Other water plants might have less light to help them grow.
- B. Some algae produce toxins, so the water could be poisoned.
- C. Fish, like carp, that eat algae will have more food.
- D. all of these

Near which type of community might you expect excess nitrate in the water?

- A. mountain towns near headwaters
- B. fishing villages
- C. dairy farms
- D. industrial areas

Some factors affecting water quality include clarity, chlorophyll level, and dissolved \_\_\_\_\_.

- A. hydrogen
- B. helium
- C. sunlight
- D. oxygen

Eutrophication is a process in which a body of water receives too many nutrients. This, in turn, triggers excessive plant and algae growth. Often, when the plants and algae die, oxygen-consuming decomposers begin to flourish in the water. This decreases the amount of oxygen in the water, causing fish and other aquatic animals to suffocate and die.

Which of the following is the most likely cause of eutrophication?

- A. acid rain falling into a body of water
- B. dumping sewage and agricultural wastes into a body of water
- C. diverting water from a natural body of water to a city's public water supply
- D. introducing an exotic species into a body of water

What effect does turbidity have on an aquatic system?

- A. It has no effect on water temperature but impairs photosynthesis.
- B. It increases water temperature and impairs photosynthesis.
- C. It has no effect on water temperature and can suffocate fish eggs and insect larvae.
- D. It decreases water temperature & increases plant growth