

# “What Makes a Quality Lake?”

## DVD Questions



Name: \_\_\_\_\_ Class Period: \_\_\_\_\_ Date: \_\_\_\_\_

1. The rapid growth in Florida’s population has affected many lakes. List three changes that have occurred in Florida lakes due to rapid population growth.

- a.
- b.
- c.

2. Lakes have many different uses in Florida. List several examples of these uses.

3. List key concept ideas for the following words:

- A. Algae –
- B. Eutrophication –
- C. Nitrogen –
- D. Nutrient enrichment --
- E. Phosphorous –

4. There are four trophic state categories used to describe lakes. Define each of them briefly.

- A. Oligotrophic:
- B. Mesotrophic:
- C. Eutrotrophic:
- D. Hypertrophic:

5. Explain the effects of nitrogen and phosphorous on a lake's water quality:

6. Describe how water flush rates affect the nutrient levels in a lake.



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7. Several different factors can affect the sedimentation rates in a lake. Please discuss how the following two factors might influence sedimentation.

Increased nutrients:

Flushing rate:

8. Humans can have a direct impact on lakes. Examples include housing development, recreational boating activities, industry, agriculture and aquaculture. What are some of the changes that occur in lakes due to human impact?

9. Water clarity in a lake can be affected by various factors. Explain how the following two factors can change water clarity.

- An increase in the abundance of algae \_\_\_\_\_.
- Increased nutrient levels -- \_\_\_\_\_

10. Fill in the blanks:

The presence of aquatic plants will generally not improve water quality unless at least \_\_\_\_\_% of the bottom is covered with submersed plants.

A eutrophic lake is not a \_\_\_\_\_ lake. Instead it is a \_\_\_\_\_ lake.