

Water Use, Management, and Pollution Concept Questions

1. What are the three major categories of water use? From what point in the cycle is water generally withdrawn for use? How is it withdrawn and used?
2. a) How does deforestation affect the water cycle?
b) What is the effect of paving on the water cycle?
3. Experts agree that we need more water. Two ways of getting more water are to increase water supply and to reduce our demand. Compare the potential of each one.
4. How can water demands be reduced in industry, agriculture, and households?
5. How does water use by sector differ between rich and poor countries?
6. What are some ways you can use less water in your personal life? What effect will those actions have long term?
7. Suggest some ways we get the general public to conserve water?
8. Why do you think the typical Canadian uses use so much more water than people in nearly every other country?
9. Consider the methods of increasing our water supply we discussed in class. Identify the two you think are most feasible and give your reasons for saying so.
10. Outline the events that transform a lake from oligotrophic to eutrophic.
11. Why is the natural condition of most bodies of water to be oligotrophic?
12. Describe the causes of cultural eutrophication.
13. Describe the role of wetlands in preventing eutrophication.
14. How can BOD be used as a measure of water quality?
15. Describe two ways the results of eutrophication can be addressed. Suggest some challenges of each one.
16. Imagine a small stream flows near the school grounds at KVHS. Before reaching the school grounds, it flows through a deciduous woods. The class decides to monitor and study the stream's flow patterns and quality as it flows through the woods and the school grounds. Describe the results you would expect to find in the two areas.