Your Drinking Water From the Source to Your Tap Video Middle School Worksheet

Instructions: Watch the video to help you answer the below questions. Questions will cover concepts from the video as well as from class.

Question 1: How do you use water at home?

Question 2: What is a watershed?

Question 3: The City of Raleigh has a Watershed Protection Program to contribute funds to conservation easements and conservation projects that protect our drinking water source. These projects conserve land to make sure the land around the streams, creeks, and lakes stay in a natural condition. These projects occur within our water supply watersheds. How does conserving land improve water quality?

Question 4: What organization created, owns, and operates Falls Lake?

Question 5: Which of the following is not a reason the reservoir Falls Lake was created?

A. Wildlife habitatB. RecreationC. Flood control

D. Hydroelectric power plantE. Water QualityF. Water Supply

Question 6: How does Falls Lake help prevent flooding of downstream communities?

Question 7: Falls Lake provides 80% of Raleigh Water's drinking water. What is the other source of water?

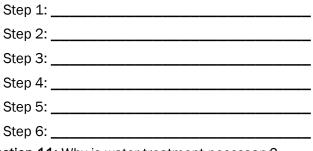
- A. Lake Raleigh
- B. Lake Johnson
- C. Lake Lynn
- D. Lake Benson

Question 8: Do you think Falls Lake contains freshwater or saltwater?

Question 9: How many gallons of water a day does Raleigh Water provide to the City of Raleigh and surrounding areas?

- A. 10,000 gallons
- B. 52 million gallons
- C. 100 million gallons
- D. 500 million gallons

Question 10: What are the steps of water treatment used by Raleigh Water?



Question 11: Why is water treatment necessary?

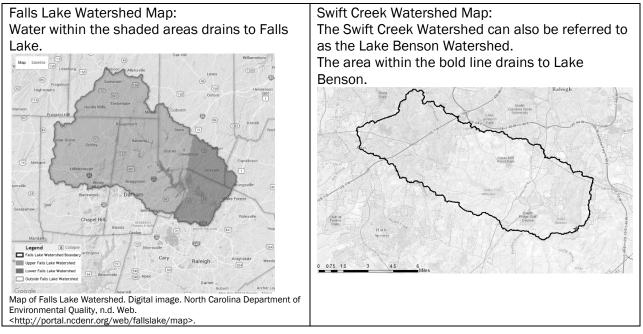
Question 12: The pH of Raleigh Water's finished water (the water that has been cleaned at the water treatment plant and is ready to drink) is 8.42. Is this pH acidic or basic?

Question 13: Which has higher turbidity: lake water or drinking water?

Question 14: What is something interesting you learned from the video?

Additional Information

Maps:



Glossary:

- **Conservation Easement**: Land that is permanently protected from being developed. A land trust or government will hold the conservation easement.
- **Finished water**: Finished water, also known as treated water, is water that has been cleaned at the water treatment plant. This water is ready for customers to drink!
- Water Distribution System: Just as the name sounds, a water distribution system is how treated water is distributed to customers. Distribution systems include pipes, storage tanks, fire hydrants, water valves. Through Raleigh Water's distribution system, water is provided to Garner, Raleigh, Knightdale, Rolesville, Wake Forest, Wendell, and Zebulon.
- Watershed: An area where all the rain or water drains to the same place. The water could drain to a stream, river, lake, or ocean. The watershed is typically named after the waterbody where the water drains. It is similar to a bowl that collects water. The term watershed is synonymous with the term basin.