

**Drinking Water Web Quest: You will have two class periods to complete this**

**Go to:** <https://tmwa.com/your-water/water-quality-facts/>

1. What is the source of Reno and Spark's drinking water?
2. Which pollutants are of most concern based on the chart and what levels are acceptable?
3. What are the health effects of the following if the concentrations are too high in our drinking water?
4. What are the nitrate levels?
5. What is the MCL (maximum containment level)?
6. Where did the nitrate come from?

**Go to** <http://water.usgs.gov/edu/mearthgw.html> **and click on what is groundwater**

7. What is ground water

8. Why is their groundwater

**On the left side use the navigator list to chose the correct topic to answer the questions below.**

9. What is an aquifer?

10. What is it called when precipitation adds water to the aquifers?

11. What is a water table?

12. What is a confined aquifer?

**On the left side click on water wells**

13. What is a well?

**On the left side click on groundwater depletion**

14. What is a cone of depression?

15. What is salt water intrusion?

**On the left side click on water quality**

16. What contamination of groundwater is a major concern?

17. How is groundwater naturally contaminated?

18. How is groundwater contaminations caused my humans?

**On the left side click on groundwater contaminates**

19. What are the sources and health effects of mercury?.

21. What are the sources and health effects of volatile organic compounds?

20. What are the sources and health effects of coliform bacteria?

**Go to this link and answer the question below.** [http://www.watershedatlas.org/fs\\_indexwater.html](http://www.watershedatlas.org/fs_indexwater.html)

21. What is a water shed?

22. Is runoff likely to happen in a water shed?

**Go to this link and answer the question below**

[http://oceanservice.noaa.gov/education/kits/estuaries/media/supp\\_estuar09b\\_eutro.html](http://oceanservice.noaa.gov/education/kits/estuaries/media/supp_estuar09b_eutro.html)

23. What nutrients trigger eutrophication?

24. Why is eutrophication bad. Explain in detail (found in paragraph 1)

25. What does eutrophication trigger?

26. What are algae blooms bad?

27. Eutrophication is devastating to what?

**Go to this link** <http://science.howstuffworks.com/reverse-osmosis.htm>

28. What does reverse osmosis remove?

29. Explain how reverse osmosis works.

**Go to this link** <http://www.chemhelper.com/distillation.html>

30. Explain how distillation works.

31. What are advantages to simple distillation?

32. What are disadvantages to simple distillation?

**Go to this link** <https://www.internationalrivers.org/dams-and-water-quality>

33. How do dams damage water?

34. What does the dam create that causes the most problems?

a. What problems occur?

**Go to this link** <http://education.nationalgeographic.org/encyclopedia/dike/>

35. What is a water dike?

**Go to this link** <http://science.howstuffworks.com/engineering/structural/levee.htm>

36. What is a levee?

37. What is the difference between a dike and a levee?

**Go to this link** <http://www.wisegeek.com/what-is-an-aqueduct.htm>

38. What is an aqueduct?

39. What population first used aqueducts?

40. what aqueducts are used in the USA today?