

Chapter 9 Water Resources [FRQ 2002, 2003, 2015](#)

Module 26

[Where we get our freshwater](#)-Teded.com

Draw and label a groundwater diagram of a confined aquifer.

Would you prefer your drinking water to come from a confined aquifer or unconfined? Why?

What are the potential issues of the Northern High Plains aquifer..... and the Ogallala aquifer?

P297 Figure 26.4

View differences in overuse of pumping of groundwater.

List the 3 major surface water biomes.

Contrast the volume, depth, and surface area of the world's largest lakes.

Analyze the Dust Bowl: What are some human and ecological impacts associated with droughts?

How can human activities worsen the effects of droughts and floods?

Module 28

	A. Residential	B. Industrial	C. Agriculture
Uses			
US %s			
World %s:			
Treatment			
Conservation			

Do the math/diagram analysis	
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Figure 28.5 Who uses the most water per capita per day in their households? Mostly on? Figure 28.6

What are the factors that limit access to clean water in many developing nations?

How does the lack of access to clean water affect people living in developing nations?

How will we determine water availability in the future?

What are the 2 overall trends in water use in the US since 1950?

Chapter 14 Water Pollution
Chapter 14 Water pollution FRQ 2001, 2007, 2012, 2013, 2014 (math)
Module 41

What are 3 reasons scientists are concerned about wastewater as a pollutant?

How does high BOD influence water quality?

What is a dead zone?

Treating Wastewater

	Location	Application	Parts/Stages	Environmental advantages	Environmental disadvantages
Septic System					
Sewage treatment plant					

What are the comparisons between wetlands and wastewater treatment plants?

Module 42
Heavy metals

Metal	Source	Removal	Health effect
Lead			
Arsenic			
Mercury			

Define acid mine drainage.

List the synthetic organic compounds.
Why are these of concern?

Module 43

What are the major sources of oil in the ocean?

What are 3 ways to remediate an oil spill?

Module 44

Toxic sediments in Sydney Harbour <http://www.abc.net.au/catalyst/stories/2917562.htm>

Nonchemical water pollution

POLLUTANT	SOURCE	EFFECTS	SOLUTION
SOLID WASTE			
SEDIMENT			
THERMAL			
NOISE			

Module 45

What are the 2 most important laws governing US water?

Table 45.1 Discuss the 6 MCL of contaminants discussed, and their categories.

How can water pollution legislation take hold in the developing world?

Complete the concept map for Dissolved Oxygen

Water temperature

Shade

Algae

Stagnant Water

Churning water

FIGURE 5.2. REPRESENTATION OF STUDENTS' TENTATIVE MODEL OF DISSOLVED OXYGEN (DO)

