Name:		

Chapter 3 Section 2 & 3 Water treatment and pollution

## The Shallows

What's floating in your water, there Kimberly?
Define concentration:
Just a little iron, and some magnesium What does that say about the quality?
Define water quality:
List 2 harmless substances commonly found in water.  1
List 2 harmful substances found in drinking water.  1
How many other molecules could cause disease-ium Following the standards by the EPA  What is the name of the government organization that controls water, air and land quality?  The EPA was established in the year
Why was the EPA established?
Yea the concentration is acceptable – today EPA, come measure the acidity
3 factors that affect water quality 1
2
What does pH measure? to to Water with a low pH is very
Water with a high pH is very
PH must be neutral, 7 would be beautiful Pure water has a pH of

Drinking water must have a pH of	_ to	as set by the EPA.	
The hardness of water, that is tough to clo Magnesium and calcium, clogging my pip			
Hardness of water is defined as the amount of water.		and	_ present in the
What are two drawbacks of hard water?			
Coliform count more than 5%			
The amount of the bacteria the		found in wate	r is referred to as
Where are E. coli found?			
What is the EPA coliform count allowed in dr			_
What does a high coliform count indicate about	ıt drinking wa	ter?	
Don't drink it downwell, do you feel rea			
What disease can result from drinking water w	ith a high coli	form count?	
Hmthere's something in the water Eutrophication from the fertilizer			
Define eutrophication:			
Blocks out the light like a thick sun visor	r		
How does the use of fertilizers in farming incre		_	
While point source pipes dumping sludge Causing this pollution			
Define water pollution:			
The substance causing the water pollution is ca			<u> </u>
List two types of water pollution.  1.	_		
2			

Add the chlorination and then stir with a paddle Kill the microorganisms in this area

The 5 <sup>th</sup> step to treating drinking water is
Why is chlorine added to drinking water?
Air through the water to reduce the smell I'll fix it up. Aeration is a-kinda swell
The 6 <sup>th</sup> step to treating drinking water is
Why is drinking water aerated?
Hmthere's something in the water
Additional substances that may be added to drinking water include  1
2
Plant roots filter and absorb all the metals and chemicals
How do plants help cleanup water pollution?
While bacteria can eat some oil at the time of a spill
How are bacteria used to clean up oil spills?
What is the name of the largest oil spill in history?
How much oil was spilled?
If you reuse the water Yea and cool the water Reuse the water
How can dumping hot water into streams harm the environment?
What is a solution to heated water pollution?
Gosh, I hope they will  Human human waste can really cause some disease One major source of water pollution is  Cholera, cholera - it's such a follower
What is cholera?
How is cholera spread?

Treatment plants, remove all of it please Clean it up, serve it up – give me what I prefer

Two ways to treat human waste water are  1
2
Industrial waste, from factories and mines A second major source of water pollution is
Can cause non point source - where pollution can't be tied
Define nonpoint source pollution:
Chemicals dumped cause a reaction chain Toxic chemicals, let's be sensible
One type of industrial waste water pollution is
List examples of chemical water pollution and label as point or nonpoint source.  1.
2
Smoke and exhaust result in acid rain  Cars and smoke stacksemitting the dispensable
A second type of industrial waste pollution is What does smoke and exhaust pollution cause?
Why is acid rain harmful?
Heat pollution gets some hot hot water And heats it upmore than southern Nicaragua
A third type of industrial waste pollution is What is heat pollution?
Hmthere's something in the water