Review Sheet for Freshwater Test

Vocabulary to Know

freshwater flocs aquifer Hq surface water water cycle DO aeration synergistic watershed permeable chlorination impermeable river basin nitrates point pollution hydrosphere runoff phosphates nonpoint pollution pollutant tributary collection / turbidity acid rain percolation accumulation bioindicators infiltration condensation hardness sedimentation topography evaporation coagulation transpiration filtration estuary groundwater precipitation alum

Be sure you know the following concepts:

- Percentages of water distribution on Earth (saltwater vs. freshwater, types of freshwater)
- Be able to explain and identify the steps in the water cycle
- Water quality standards:
 - o What are the healthy levels for each standard?
 - Which standards are related to each other and affected by each other? (How does temperature affect DO? How do nitrates affect turbidity? How does turbidity affect temperature? How does pH amplify the effect of other pollutants? Etc.)
- What are the major steps in the water treatment process?
- What is the purpose of each step in the water treatment process?
- Know the difference between point and non-point pollution and be able to recognize examples of point and non-point pollution
- Be sure you know the pH of pure water, and why pure water is not usually found on Earth.
- Study the word sets on Quizlet.com related to water and water quality: Freshwater and Water Cycle, Water Quality (Username: kmidkiff Password: voyager8)

Sample Review Questions

- 1. Which example illustrates a point source of water pollution?
 - a. Runoff from roads
 - b. Runoff from farms
 - c. An oil tanker spilling oil into an ocean
 - d. Adding sand to icy roads instead of salt
- 2. Which of the following is NOT a major source of water pollution?
 - a. Human wastes
 - b. Industrial wastes
 - c. Chemical energy
 - d. Chemical runoff

3.	The step in the water treatment proce form is called	ss in	which alum is added to cause sticky globs to	
	a. Aeration	_	Chlorination	
	b. Coagulation	u.	Filtration	
4.	not larger solid particles is called			
	a. Filtrationb. Chlorination		Aeration Coagulation	
5.	Chlorine is added to drinking water in a. Kill disease-carrying microorganism b. Help form sticky globs that are car	se-carrying microorganisms n sticky globs that are caught during filtration ne water for large particles		
	c. Screen the water for large particled. Reduce unpleasant odors and tast			
	u. Reduce dripleasant odors and tast	.C3		
6.	ne use of fertilizers to grow crops can sometimes lead to			
	a decrease in insect populations. an increase in groundwater temperature.			
	c. an increase in nitrate levels.	increase in nitrate levels.		
	d. a decrease in dissolved oxygen lev	els.		
7	7. Plants return water to the atmosphere in a process called			
/.	a. condensation	c.	transpiration	
	b. photosynthesis	d.	evaporation	
0	hich statement best describes a difference between an estuary and a tributary?			
0.	. An estuary has freshwater and a tributary has salt water.			
	b. An estuary leads into a tributary.c. An estuary leads into an ocean an	estuary leads into a tributary. estuary leads into an ocean and a tributary leads to a river.		
	d. An estuary contains groundwater			
9. What are the healthy levels for surface freshwater for each water quality standard? Give the range, or tell whether it should be "low" or "high" for healthy water.				
	pH:			
	dissolved oxygen:			
	nitrates:	_ _		
	phosphates:			
	ammonia:			
	turbidity:			