Name:	VIVI	71	T,	Date:	Class:
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Introduction to Water Chemistry Worksheet

Vocabulary Definitions

- 1. contamination: The presence of a minor component in another chemical or mixture.
- 2. purification: To make something pure or to cleanse.
- 3. remediation: To correct something that has gone bad or defective.

Questions

- 1. List three processes that happen during the water cycle:
 - condensation
 - evaporation
 - infiltration

- sublimation
- precipitation
- evapotranspiration
- 2. List three large-scale methods for purifying drinking water:
 - reverse osmosis
 - ultra-filtration
 - electro-deionization
- 3. Describe how activated carbon works:

As contaminants pass through the activated carbon, they adsorb onto the pores so only clean water passes through.

- 4. List five major sources of water contamination:
 - leaking sewage
 - underground fuel storage tank leaks
 - pesticides
 - landfills and dumps
 - industrial waste
- 5. Of the three remediation options discussed in the presentation (pump-and-treat, permeable reactive barrier, and nanoparticle injection), which do you think is the best and why?

This is more of an opinion than a right or wrong answer. There are advantages and disadvantages to all of the different methods.