Data:	Namo:
Date	Name

Water Treatment Chemist

This activity was created by Gagan.

Using the ingredients and tools below, draw out what each step will look like in the water treatment process in the tanks on the next page. Is the water clean? What remains in the water at each step? Are there any microorganisms? Dirt? What tools and chemicals are being used?

Disinfectant. Kills Reduces pH of bacteria and other water to assist harmful organisms. Sulphuri with coagulation Chlorine Acid Disinfectant. Coagulant. Allows organic waste to Kills bacteria and improves taste / stick together by odour. altering its charge **Ferric** so that molecules Sulphate Ozone Sodium are attracted to **Bisulfate** Helps remove one another. ozone. **Ultraviolet Light** Disinfectant. Prevents bacteria from reproducing by destroying their DNA. Removes small solids and bacteria. Highly Medium Fine Coarse efficient.

- COAGULATION Hint: Dirty water first enters this phase with algae, sand, bacteria, wood all present in the water.
- 2 **SEDIMENTATION** Hint: Air is pumped into the bottom of the tank causing debris to rise to the top and is removed.

