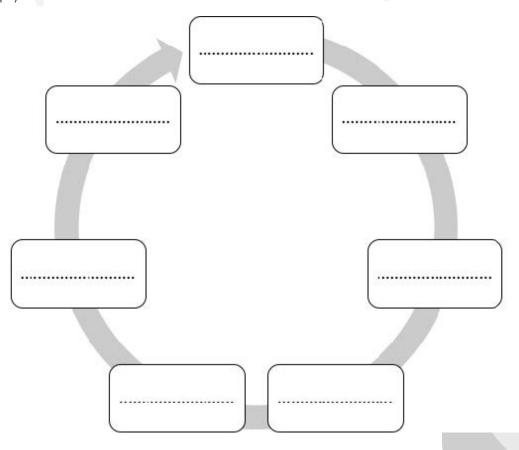
Date:	Name:	

## Water Treatment (page 1 of 2)

This activity was created by Huda.

Try to arrange the steps of water treatment in the correct order. Use the descriptions of each step below to help you!



## **DESCRIPTIONS**

**FILTRATION:** Filters remove any remaining particles in the water as well as dissolved organic matter and any parasites.

**DISSOLVED AIR FILTRATION:** Water is supersaturated with compressed air, making it frothy. Organic matter floats to the top and is removed.

**PROCESSING:** Clean water is pumped out for use. Clumps of particles that were removed from the water are pumped out, and filters are cleaned.

UV DISINFECTION: Ultraviolet light kills any remaining parasites or organisms.

**OZONATION:** Ozone is added to kill the most harmful bacteria. It also improves the taste and smell of the water.

**COAGULATION:** A coagulant is added to the water, which causes larger particles to clump together.

**CHLORINE DISINFECTION:** Chlorine is added to kill some of the bacteria and viruses in the water.

D - +	N I = 100 = 1
Date.	Name.
Date:	1 tarrie:

## Water Treatment: What Went Wrong?

Try to figure out what went wrong with the water treatment in each scenario and how it can be fixed.

As Jenny is filling her cup with water from the tap, she noticies small grey and black clumps in her water. Should she drink the water? What went wrong at the treatment plant?

The directors at the City of Winnipeg begin to notice something's wrong. The water contains small visible particles even though the water treatment process is being followed. The water is being coagulated and filtered. What are they doing wrong?

There have been multiple cases within the city of people getting sick of a parasite/microorganism called cryptosporidium. What went wrong at the plant?