

8th Grade Activities

From to Place to Place – Students will design a distribution system to get water from the water treatment plant to homes. Depending on how students design the system, they may need some type of “force” to move the water. The vocabulary includes gravity, hydraulics, pressure, PSI, and velocity. Students will learn how a distribution system works, how to read a map of the distribution system, how to calculate how fast water can get to their home and what the layout of water mains says about the population of an area. **Standards: S8P3**

Water Quality - Students will learn about some water quality measures such as temperature, pH, turbidity, conductivity, alkalinity, and dissolved oxygen. The students will work together with field kits to test a water sample. The DO (dissolved oxygen) test, which is the Winkler Method does an excellent job of illustrating the formation of a precipitate. Other field tests do a good job of illustrating a chemical change that is then measured colorimetrically. **Standards: S8P1**