Project Summary

Technology is becoming increasingly common in today's classroom. There are numerous applications available for use with computers that support the Ontario curriculum expectations. In addition computer interfaces such as Smart Board have made these applications even more accessible to students and teachers. This project attempts to take advantage of these applications and incorporate them into a Grade 8 unit of study on Fluids. We have modified existing lesson plans in order to integrate resources from the web (including gizmos) to provide a number of ways to demonstrate the properties and uses of fluids in a safe and efficient manner. This series of three lesson plans and a culminating activity address the following focus questions: 1) What factors affect the flow rate and viscosity of a fluid? 2) How can the mass to volume relationship (volume) of a fluid be determined? 3) What is the relationship between temperature, volume, and pressure in gas? and 4) How do distance, temperature, resistance, or fluid type (density) affect the flow of a fluid through a pipeline?

This project is not intended to be a comprehensive unit on fluids. It demonstrates how some computer applications can be incorporated can be used to further classroom learning.