## Mighty Mining Machines

Ontario	
	Grade 4
Strand D: Structures and Mechanisms	
Specific Expectations:	D1.1 assess the impacts of machines and their mechanisms on the daily lives of people in various communities
	D2.1 identify machines that are used in daily life, and describe their purposes
Strand A: STEM Skills and Connections	
Specific Expectations:	A3.1 describe practical applications of science and technology concepts in various occupations, including skilled trades, and how these applications address real-world problems
Grade 8	
Strand D: Structures and Mechanisms	
Specific Expectations:	D2.4 use the scientific terms displacement, force, work, energy, and efficiency to describe everyday experiences
	D2.6 explain the relationship between input and output forces and determine the mechanical advantage of various mechanical systems, including simple machines
	D2.9 describe technological innovations involving mechanical systems that have increased productivity in various industries
Strand A: STEM Skills and Connections	
Specific Expectations:	A3.1 describe practical applications of science and technology concepts in various occupations, including skilled trades, and how these applications address real-world problems