

Building Strong Mines

Nova Scotia	
Grade 7	
Engineering Structures	
<p><u>Outcomes:</u> Learners will test the strength and efficiency of shapes and materials used in construction.</p>	<p><u>Indicators:</u></p> <ul style="list-style-type: none"> • Evaluate the strength of a variety of shapes and materials • Evaluate the applications of shapes and materials used in construction • Investigate properties of materials used in construction
<p>Learners will test various forces affecting structures.</p>	<ul style="list-style-type: none"> • Investigate forces that act on and within structures • Test structures to determine failure points • Analyse forces that lead to structural failure
<p>Learners will construct a structure in response to a design challenge.</p>	<ul style="list-style-type: none"> • Apply concepts of shapes, forces, strength, stability and efficiency to a design challenge • Evaluate materials in relation to a design challenge • Implement a plan for a structural design challenge • Test a constructed structure according to design challenge criteria