

Let's Go to Work		Grade 8: Systems in Action	
Curriculum Connections	Topic	Structures and Mechanisms	
	Fundamental Concepts	Systems and Interactions	
<p>Description In physics the term “work” means something different than the way we use it in everyday life. In this activity you will learn what we mean when we use the term in physics and will explore how to calculate it.</p>			
<p>Big Ideas All systems include an input and an output</p>		<p>Overall Expectations</p> <ol style="list-style-type: none"> investigate a working system and the ways in which components of the system contribute to its desired function; demonstrate an understanding of different types of systems and the factors that contribute to their safe and efficient operation 	
<p>Specific Expectations</p> <p>2.2 investigate the work done in a variety of everyday activities and record the findings quantitatively</p> <p>3.4 compare, using examples, the scientific definition with the everyday use of the terms work, force, energy, and efficiency</p> <p>3.5 understand and use the formula $\text{work} = \text{force} \times \text{distance}$ to establish the relationship between work, force, and resistance moved parallel to the force in simple systems</p>			