

Mechanical Advantages of Levers		Grade 8: Systems in Action	
Curriculum Connections	Topic	Structures and Mechanisms	
	Fundamental Concepts	Systems and Interactions	
<p>Description Learn about the three classes of lever and investigate how they help us do work by experimenting with your own levers at home.</p>			
<p>Big Ideas Systems are designed to accomplish tasks</p>		<p>Overall Expectations 3. demonstrate an understanding of different types of systems and the factors that contribute to their safe and efficient operation</p>	
<p>Specific Expectations 3.4 compare, using examples, the scientific definition with the everyday use of the terms work, force, energy, and efficiency 3.6 calculate the mechanical advantage needed without a simple machine divided by force needed with a simple machine of various mechanical systems</p>			