

Pulleys		Grade 4: Pulleys and Gears	
Curriculum Connections	Topic	Structures and Mechanisms	
	Fundamental Concepts	Systems and Interactions	
<p>Description Use household items to investigate how pulley systems can influence the relationships between force and distance as they relate to the concept of work.</p>			
<p>Big Ideas Pulleys and gears change the speed, direction, and motion of, and force exerted on, moving objects</p>		<p>Overall Expectations 2. investigate ways in which pulleys and gears modify the speed and direction of, and the force exerted on, moving objects</p>	
<p>Specific Expectations 2.2 use scientific inquiry/experimentation skills to investigate changes in force, distance, speed, and direction in pulley and gear systems 2.3 use technological problem-solving skills to design, build and test a pulley or gear system that performs a specific task</p>			