

Exploring the Extreme			
2006 Science			
Grade Level and Grade Span Expectations			
Rhode Island Science			
Grades K-2			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	RI	SCI.K-2.PS3 (K-2)-7b	predicting the direction an object will or will not move if a force is applied to it.
Exploring the Extreme			
2006 Science			
Grade Level and Grade Span Expectations			
Rhode Island Science			
Grades 3-4			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	RI	SCI.3-4.PS3 (3-4)-7b	describing change in position relative to other objects or background.
Finding the Center of Gravity Using Plumb Lines	RI	SCI.3-4.PS3 (3-4)-7b	describing change in position relative to other objects or background.
Changing the Center of Gravity Using Moment Arms	RI	SCI.3-4.PS3 (3-4)-7b	describing change in position relative to other objects or background.
Exploring the Extreme			
2006 Science			
Grade Level and Grade Span Expectations			
Rhode Island Science			
Grades 7-8			
Activity/Lesson	State	Standards	
Jet Propulsion	RI	SCI.7-8.PS3 (7-8)-8a	measuring distance and time for a moving object and using those values as well as the relationship $s=d/t$ to calculate speed and graphically represent the data.
Jet Propulsion	RI	SCI.7-8.PS3 (7-8)-8b	solving for any unknown in the expression $s=d/t$ given values for the other two variables.
Vectoring	RI	SCI.7-8.ESS1 (7-8)-3c	investigating the effect of flowing water on landforms (e.g. stream table, local environment).
Vectoring	RI	SCI.7-8.PS3 (7-8)-8a	measuring distance and time for a moving object and using those values as well as the relationship $s=d/t$ to calculate speed and graphically represent the data.
Vectoring	RI	SCI.7-8.PS3 (7-8)-8b	solving for any unknown in the expression $s=d/t$ given values for the other two variables.

Vectoring	RI	SCI.7-8.PS3 (7-8)-8d	making and testing predictions on how unbalanced forces acting on objects change speed or direction of motion, or both.
Center of Gravity, Pitch, Yaw	RI	SCI.7-8.PS3 (7-8)-8a	measuring distance and time for a moving object and using those values as well as the relationship $s=d/t$ to calculate speed and graphically represent the data.
Center of Gravity, Pitch, Yaw	RI	SCI.7-8.PS3 (7-8)-8b	solving for any unknown in the expression $s=d/t$ given values for the other two variables.
Fuel Efficiency	RI	SCI.7-8.PS3 (7-8)-8a	measuring distance and time for a moving object and using those values as well as the relationship $s=d/t$ to calculate speed and graphically represent the data.