

Exploring the Extreme			
2008 Science			
Curriculum Standards			
Tennessee Science			
Grade K			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	TN	SCI.K.GLE 0007.Inq.2	Ask questions, make logical predictions, plan investigations, and represent data.
Finding the Center of Gravity Using Rulers	TN	SCI.K.GLE 0007.11.1	Explore different ways that objects move.
Exploring the Extreme			
2008 Science			
Curriculum Standards			
Tennessee Science			
Grade 1			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	TN	SCI.1.GLE 0107.Inq.2	Ask questions, make logical predictions, plan investigations, and represent data.
Finding the Center of Gravity Using Rulers	TN	SCI.1.GLE 0107.11.1	Investigate how forces (push, pull) can move an object or change its direction.
Exploring the Extreme			
2008 Science			
Curriculum Standards			
Tennessee Science			
Grade 2			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	TN	SCI.2.GLE 0207.Inq.2	Ask questions, make logical predictions, plan investigations, and represent data.
Exploring the Extreme			
2008 Science			
Curriculum Standards			
Tennessee Science			
Grade 3			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	TN	SCI.3.GLE 0307.Inq.1	Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data.
Finding the Center of Gravity Using Rulers	TN	SCI.3.GLE 0307.Inq.2	Select and use appropriate tools and simple equipment to conduct an investigation.

Finding the Center of Gravity Using Plumb Lines	TN	SCI.3.GLE 0307.Inq.1	Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data.
Finding the Center of Gravity Using Plumb Lines	TN	SCI.3.GLE 0307.Inq.2	Select and use appropriate tools and simple equipment to conduct an investigation.
Finding the Center of Gravity Using Plumb Lines	TN	SCI.3.GLE 0307.Inq.4	Identify and interpret simple patterns of evidence to communicate the findings of multiple investigations.
Changing the Center of Gravity Using Moment Arms	TN	SCI.3.GLE 0307.Inq.1	Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data.
Changing the Center of Gravity Using Moment Arms	TN	SCI.3.GLE 0307.Inq.2	Select and use appropriate tools and simple equipment to conduct an investigation.
Exploring the Extreme			
2008 Science			
Curriculum Standards			
Tennessee Science			
Grade 4			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	TN	SCI.4.GLE 0407.Inq.1	Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data.
Finding the Center of Gravity Using Rulers	TN	SCI.4.GLE 0407.Inq.2	Select and use appropriate tools and simple equipment to conduct an investigation.
Finding the Center of Gravity Using Rulers	TN	SCI.4.GLE 0407.Inq.4	Identify and interpret simple patterns of evidence to communicate the findings of multiple investigations.
Finding the Center of Gravity Using Rulers	TN	SCI.4.GLE 0407.11.1	Recognize that the position of an object can be described relative to other objects or a background.
Finding the Center of Gravity Using Plumb Lines	TN	SCI.4.GLE 0407.Inq.1	Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data.
Finding the Center of Gravity Using Plumb Lines	TN	SCI.4.GLE 0407.Inq.2	Select and use appropriate tools and simple equipment to conduct an investigation.
Finding the Center of Gravity Using Plumb Lines	TN	SCI.4.GLE 0407.Inq.4	Identify and interpret simple patterns of evidence to communicate the findings of multiple investigations.
Finding the Center of Gravity Using Plumb Lines	TN	SCI.4.GLE 0407.11.1	Recognize that the position of an object can be described relative to other objects or a background.

Changing the Center of Gravity Using Moment Arms	TN	SCI.4.GLE 0407.Inq.1	Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data.
Changing the Center of Gravity Using Moment Arms	TN	SCI.4.GLE 0407.Inq.2	Select and use appropriate tools and simple equipment to conduct an investigation.
Changing the Center of Gravity Using Moment Arms	TN	SCI.4.GLE 0407.11.1	Recognize that the position of an object can be described relative to other objects or a background.
Exploring the Extreme			
2008 Science			
Curriculum Standards			
Tennessee Science			
Grade 5			
Activity/Lesson	State	Standards	
Jet Propulsion	TN	SCI.5.GLE 0507.Inq.1	Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data.
Vectoring	TN	SCI.5.GLE 0507.Inq.1	Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data.
Vectoring	TN	SCI.5.GLE 0507.Inq.2	Select and use appropriate tools and simple equipment to conduct an investigation.
Exploring the Extreme			
2008 Science			
Curriculum Standards			
Tennessee Science			
Grade 6			
Activity/Lesson	State	Standards	
Jet Propulsion	TN	SCI.6.GLE 0607.Inq.2	Use appropriate tools and techniques to gather, organize, analyze, and interpret data.
Jet Propulsion	TN	SCI.6.GLE 0607.Inq.5	Communicate scientific understanding using descriptions, explanations, and models.
Jet Propulsion	TN	SCI.6.GLE 0607.T/E.2	Know that the engineering design process involves an ongoing series of events that incorporate design constraints, model building, testing, evaluating, modifying, and retesting.
Vectoring	TN	SCI.6.GLE 0607.Inq.1	Design and conduct open-ended scientific investigations.
Vectoring	TN	SCI.6.GLE 0607.Inq.2	Use appropriate tools and techniques to gather, organize, analyze, and interpret data.

Vectoring	TN	SCI.6.GLE 0607.Inq.5	Communicate scientific understanding using descriptions, explanations, and models.
Vectoring	TN	SCI.6.GLE 0607.T/E.2	Know that the engineering design process involves an ongoing series of events that incorporate design constraints, model building, testing, evaluating, modifying, and retesting.
Center of Gravity, Pitch, Yaw	TN	SCI.6.GLE 0607.Inq.5	Communicate scientific understanding using descriptions, explanations, and models.
Exploring the Extreme			
2008 Science			
Curriculum Standards			
Tennessee Science			
Grade 7			
Activity/Lesson	State	Standards	
Jet Propulsion	TN	SCI.7.GLE 0707.Inq.2	Use appropriate tools and techniques to gather, organize, analyze, and interpret data.
Jet Propulsion	TN	SCI.7.GLE 0707.Inq.5	Communicate scientific understanding using descriptions, explanations, and models.
Jet Propulsion	TN	SCI.7.GLE 0707.T/E.2	Know that the engineering design process involves an ongoing series of events that incorporate design constraints, model building, testing, evaluating, modifying, and retesting.
Vectoring	TN	SCI.7.GLE 0707.Inq.1	Design and conduct open-ended scientific investigations.
Vectoring	TN	SCI.7.GLE 0707.Inq.5	Communicate scientific understanding using descriptions, explanations, and models.
Vectoring	TN	SCI.7.GLE 0707.T/E.2	Know that the engineering design process involves an ongoing series of events that incorporate design constraints, model building, testing, evaluating, modifying, and retesting.
Center of Gravity, Pitch, Yaw	TN	SCI.7.GLE 0707.Inq.5	Communicate scientific understanding using descriptions, explanations, and models.
Fuel Efficiency	TN	SCI.7.GLE 0707.Inq.5	Communicate scientific understanding using descriptions, explanations, and models.
Exploring the Extreme			
2008 Science			
Curriculum Standards			
Tennessee Science			
Grade 8			
Activity/Lesson	State	Standards	

Jet Propulsion	TN	SCI.8.GLE 0807.Inq.2	Use appropriate tools and techniques to gather, organize, analyze, and interpret data.
Jet Propulsion	TN	SCI.8.GLE 0807.Inq.5	Communicate scientific understanding using descriptions, explanations, and models.
Jet Propulsion	TN	SCI.8.GLE 0807.T/E.2	Know that the engineering design process involves an ongoing series of events that incorporate design constraints, model building, testing, evaluating, modifying, and retesting.
Vectoring	TN	SCI.8.GLE 0807.Inq.1	Design and conduct open-ended scientific investigations.
Vectoring	TN	SCI.8.GLE 0807.Inq.2	Use appropriate tools and techniques to gather, organize, analyze, and interpret data.
Vectoring	TN	SCI.8.GLE 0807.Inq.5	Communicate scientific understanding using descriptions, explanations, and models.
Vectoring	TN	SCI.8.GLE 0807.T/E.2	Know that the engineering design process involves an ongoing series of events that incorporate design constraints, model building, testing, evaluating, modifying, and retesting.
Center of Gravity, Pitch, Yaw	TN	SCI.8.GLE 0807.Inq.5	Communicate scientific understanding using descriptions, explanations, and models.
Center of Gravity, Pitch, Yaw	TN	SCI.8.GLE 0807.T/E.2	Know that the engineering design process involves an ongoing series of events that incorporate design constraints, model building, testing, evaluating, modifying, and retesting.
Fuel Efficiency	TN	SCI.8.GLE 0807.Inq.5	Communicate scientific understanding using descriptions, explanations, and models.