Exploring the Extreme			
2004 Science			
Grade Level Expectations			
Louisiana Science			
Grade K			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	LA	SCI.K.2	Pose questions that can be answered by using students' own observations and scientific knowledge
Finding the Center of Gravity Using Rulers	LA	SCI.K.3	Predict and anticipate possible outcomes
Finding the Center of Gravity Using Rulers	LA	SCI.K.16	Follow directions using vocabulary such as front/back, above/below, right/left, and next to
Exploring the Extreme			
2004 Science			
Grade Level Expectations			
Louisiana Science			
Grade 1			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	LA	SCI.1.2	Pose questions that can be answered by using students' own observations and scientific knowledge
Finding the Center of Gravity Using Rulers	LA	SCI.1.3	Predict and anticipate possible outcomes
Exploring the Extreme			
2004 Science			
Grade Level Expectations			
Louisiana Science			
Grade 2			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	LA	SCI.2.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Finding the Center of Gravity Using Rulers	LA	SCI.2.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Finding the Center of Gravity Using Rulers	LA	SCI.2.4	Predict and anticipate possible outcomes
Exploring the Extreme			
2004 Science			
Grade Level Expectations			
Louisiana Science			
Grade 3			
Activity/Lesson	**State**	**Standards**	

Finding the Center of Gravity Using Rulers	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Finding the Center of Gravity Using Rulers	LA	SCI.3.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Finding the Center of Gravity Using Rulers	LA	SCI.3.4	Predict and anticipate possible outcomes
Finding the Center of Gravity Using Plumb Lines	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Finding the Center of Gravity Using Plumb Lines	LA	SCI.3.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Changing the Center of Gravity Using Moment Arms	LA	SCI.3.1	Ask questions about objects and events in the environment (e.g., plants, rocks, storms)
Changing the Center of Gravity Using Moment Arms	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Changing the Center of Gravity Using Moment Arms	LA	SCI.3.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Exploring the Extreme			
2004 Science			
Grade Level Expectations			
Louisiana Science			
Grade 4			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Finding the Center of Gravity Using Rulers	LA	SCI.4.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Finding the Center of Gravity Using Rulers	LA	SCI.4.4	Predict and anticipate possible outcomes
Finding the Center of Gravity Using Plumb Lines	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Finding the Center of Gravity Using Plumb Lines	LA	SCI.4.3	Use observations to design and conduct simple investigations or experiments to answer testable questions

Changing the Center of Gravity Using Moment Arms	LA	SCI.4.1	Ask questions about objects and events in the environment (e.g., plants, rocks, storms)
Changing the Center of Gravity Using Moment Arms	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Changing the Center of Gravity Using Moment Arms	LA	SCI.4.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Exploring the Extreme			
2004 Science			
Grade Level Expectations			
Louisiana Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	LA	SCI.5.SI.2	Identify problems, factors, and questions that must be considered in a scientific investigation
Jet Propulsion	LA	SCI.5.SI.14	Develop models to illustrate or explain conclusions reached through investigation
Jet Propulsion	LA	SCI.5.SI.33	Evaluate models, identify problems in design, and make recommendations for improvement
Vectoring	LA	SCI.5.SI.2	Identify problems, factors, and questions that must be considered in a scientific investigation
Vectoring	LA	SCI.5.SI.4	Design, predict outcomes, and conduct experiments to answer guiding questions
Vectoring	LA	SCI.5.SI.8	Use consistency and precision in data collection, analysis, and reporting
Center of Gravity, Pitch, Yaw	LA	SCI.5.SI.14	Develop models to illustrate or explain conclusions reached through investigation
Exploring the Extreme			
2004 Science			
Grade Level Expectations			
Louisiana Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	LA	SCI.6.SI.14	Develop models to illustrate or explain conclusions reached through investigation
Jet Propulsion	LA	SCI.6.SI.33	Evaluate models, identify problems in design, and make recommendations for improvement
Vectoring	LA	SCI.6.SI.2	Identify problems, factors, and questions that must be considered in a scientific investigation
Vectoring	LA	SCI.6.SI.4	Design, predict outcomes, and conduct experiments to answer guiding questions

Vectoring	LA	SCI.6.SI.8	Use consistency and precision in data collection, analysis, and reporting
Center of Gravity, Pitch, Yaw	LA	SCI.6.SI.14	Develop models to illustrate or explain conclusions reached through investigation
Exploring the Extreme			
2004 Science			
Grade Level Expectations			
Louisiana Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	LA	SCI.7.SI.14	Develop models to illustrate or explain conclusions reached through investigation
Jet Propulsion	LA	SCI.7.SI.33	Evaluate models, identify problems in design, and make recommendations for improvement
Jet Propulsion	LA	SCI.7.SI.35	Explain how skepticism about accepted scientific explanations (i.e., hypotheses and theories) leads to new understanding
Vectoring	LA	SCI.7.SI.2	Identify problems, factors, and questions that must be considered in a scientific investigation
Vectoring	LA	SCI.7.SI.4	Design, predict outcomes, and conduct experiments to answer guiding questions
Vectoring	LA	SCI.7.SI.8	Use consistency and precision in data collection, analysis, and reporting
Center of Gravity, Pitch, Yaw	LA	SCI.7.SI.14	Develop models to illustrate or explain conclusions reached through investigation
Fuel Efficiency	LA	SCI.7.SI.11	Construct, use, and interpret appropriate graphical representations to collect, record, and report data (e.g., tables, charts, circle graphs, bar and line graphs, diagrams, scatter plots, symbols)
Fuel Efficiency	LA	SCI.7.SI.16	Use evidence to make inferences and predict trends
Exploring the Extreme			
2004 Science			
Grade Level Expectations			
Louisiana Science			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	LA	SCI.8.SI.14	Develop models to illustrate or explain conclusions reached through investigation
Jet Propulsion	LA	SCI.8.SI.33	Evaluate models, identify problems in design, and make recommendations for improvement
Vectoring	LA	SCI.8.SI.2	Identify problems, factors, and questions that must be considered in a scientific investigation
Vectoring	LA	SCI.8.SI.4	Design, predict outcomes, and conduct experiments to answer guiding questions

Vectoring	LA	SCI.8.SI.8	Use consistency and precision in data collection, analysis, and reporting
Center of Gravity, Pitch, Yaw	LA	SCI.8.SI.14	Develop models to illustrate or explain conclusions reached through investigation
Fuel Efficiency	LA	SCI.8.SI.19	Communicate ideas in a variety of ways (e.g., symbols, illustrations, graphs, charts, spreadsheets, concept maps, oral and written reports, equations)