Exploring the Extreme			
2006 Science			
Content Standards			
Idaho Science			
Grade K			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	ID	SCI.K.K.S.1.2.1	Make observations and collect data.
Finding the Center of Gravity Using Rulers	ID	SCI.K.K.S.1.3.1	Measure in non-standard units.
Exploring the Extreme			
2006 Science			
Content Standards			
Idaho Science			
Grade 1			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	ID	SCI.1.1.S.1.2.1	Make observations, collect data, and use data.
Finding the Center of Gravity Using Rulers	ID	SCI.1.1.S.1.3.1	Measure in both standard and non-standard units.
Finding the Center of Gravity Using Rulers	ID	SCI.1.1.S.2.2.1	Describe the position and motion of objects. (ex. revolve, rotate, at rest, float, and fall)
Exploring the Extreme			
2006 Science			
Content Standards			
Idaho Science			
Grade 2			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	ID	SCI.2.2.S.1.2.1	Make observations, record and interpret data.
Finding the Center of Gravity Using Rulers	ID	SCI.2.2.S.1.3.1	Measure in standard and non-standard units.
Finding the Center of Gravity Using Rulers	ID	SCI.2.2.S.1.6.1	Identify questions to be investigated.
Finding the Center of Gravity Using Rulers	ID	SCI.2.2.S.1.6.4	Students are able to communicate observations.
Finding the Center of Gravity Using Rulers	ID	SCI.2.2.S.2.2.1	Explain how force affects the position and motion of objects.
Exploring the Extreme			

2006 Science			
Content Standards			
Idaho Science			
Grade 3			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	ID	SCI.3.3.S.1.2.1	Make observations, collect data and evaluate it.
Finding the Center of Gravity Using Rulers	ID	SCI.3.3.S.1.2.2	Replicate and/or use models.
Finding the Center of Gravity Using Rulers	ID	SCI.3.3.S.1.3.1	Measure changes that occur.
Finding the Center of Gravity Using Rulers	ID	SCI.3.3.S.2.1.1	Use instruments to measure properties.
Finding the Center of Gravity Using Plumb Lines	ID	SCI.3.3.S.1.2.2	Replicate and/or use models.
Finding the Center of Gravity Using Plumb Lines	ID	SCI.3.3.S.1.3.1	Measure changes that occur.
Finding the Center of Gravity Using Plumb Lines	ID	SCI.3.3.S.1.6.5	Make simple predictions based on data.
Changing the Center of Gravity Using Moment Arms	ID	SCI.3.3.S.1.2.1	Make observations, collect data and evaluate it.
Changing the Center of Gravity Using Moment Arms	ID	SCI.3.3.S.1.2.2	Replicate and/or use models.
Changing the Center of Gravity Using Moment Arms	ID	SCI.3.3.S.1.3.1	Measure changes that occur.
Changing the Center of Gravity Using Moment Arms	ID	SCI.3.3.S.1.6.3	Use appropriate tools and techniques to gather and display data.
Changing the Center of Gravity Using Moment Arms	ID	SCI.3.3.S.1.6.5	Make simple predictions based on data.
Exploring the Extreme			
2006 Science			
Content Standards			
Idaho Science			
Grade 4			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	ID	SCI.4.4.S.1.2.1	Make and record observations then analyze and communicate the collected data.

Finding the Center of Gravity Using Rulers	ID	SCI.4.4.S.1.2.2	Define observations and inferences.
Finding the Center of Gravity Using Rulers	ID	SCI.4.4.S.1.2.3	Make, describe and/or use models.
Finding the Center of Gravity Using Rulers	ID	SCI.4.4.S.1.6.3	Use appropriate tools and techniques to gather and display data.
Finding the Center of Gravity Using Rulers	ID	SCI.4.4.S.1.6.5	Make predictions based on data.
Finding the Center of Gravity Using Plumb Lines	ID	SCI.4.4.S.1.2.3	Make, describe and/or use models.
Finding the Center of Gravity Using Plumb Lines	ID	SCI.4.4.S.1.6.5	Make predictions based on data.
Changing the Center of Gravity Using Moment Arms	ID	SCI.4.4.S.1.2.2	Define observations and inferences.
Changing the Center of Gravity Using Moment Arms	ID	SCI.4.4.S.1.2.3	Make, describe and/or use models.
Changing the Center of Gravity Using Moment Arms	ID	SCI.4.4.S.1.6.5	Make predictions based on data.
Exploring the Extreme			
2006 Science			
Content Standards			
Idaho Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	ID	SCI.5.5.S.1.2.1	Use observations and data as evidence on which to base scientific explanations and predictions.
Jet Propulsion	ID	SCI.5.5.S.1.2.3	Use models to explain or demonstrate a concept.
Jet Propulsion	ID	SCI.5.5.S.1.6.1	Write and analyze questions that can be answered by conducting scientific experiments.
Jet Propulsion	ID	SCI.5.5.S.1.6.2	Conduct scientific investigations using a control and a variable.
Jet Propulsion	ID	SCI.5.5.S.1.6.3	Select and use appropriate tools and techniques to gather and display data.
Vectoring	ID	SCI.5.5.S.1.2.3	Use models to explain or demonstrate a concept.
Vectoring	ID	SCI.5.5.S.1.6.1	Write and analyze questions that can be answered by conducting scientific experiments.

Vectoring	ID	SCI.5.5.S.1.6.2	Conduct scientific investigations using a control and a variable.
Vectoring	ID	SCI.5.5.S.1.6.6	Compare alternative explanations and predictions.
Center of Gravity, Pitch, Yaw	ID	SCI.5.5.S.1.2.3	Use models to explain or demonstrate a concept.
Exploring the Extreme			
2006 Science			
Content Standards			
Idaho Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	ID	SCI.6.6.S.1.2.3	Use models to explain or demonstrate a concept.
Jet Propulsion	ID	SCI.6.6.S.1.6.1	Write and analyze questions that can be answered by conducting scientific experiments.
Jet Propulsion	ID	SCI.6.6.S.1.6.2	Conduct scientific investigations using a control and variables. Repeat same experiment using alternate variables.
Jet Propulsion	ID	SCI.6.6.S.1.6.6	Communicate scientific procedures and explanations.
Vectoring	ID	SCI.6.6.S.1.2.3	Use models to explain or demonstrate a concept.
Vectoring	ID	SCI.6.6.S.1.6.1	Write and analyze questions that can be answered by conducting scientific experiments.
Vectoring	ID	SCI.6.6.S.1.6.2	Conduct scientific investigations using a control and variables. Repeat same experiment using alternate variables.
Vectoring	ID	SCI.6.6.S.1.6.4	Use evidence to analyze data in order to develop descriptions, explanations, predictions, and models.
Vectoring	ID	SCI.6.6.S.1.6.6	Communicate scientific procedures and explanations.
Center of Gravity, Pitch, Yaw	ID	SCI.6.6.S.1.2.3	Use models to explain or demonstrate a concept.
Center of Gravity, Pitch, Yaw	ID	SCI.6.6.S.1.3.2	Measure in both U.S. Customary and International System of Measurement (metric system) units with an emphasis on the metric system.
Fuel Efficiency	ID	SCI.6.6.S.1.2.3	Use models to explain or demonstrate a concept.
Fuel Efficiency	ID	SCI.6.6.S.1.3.2	Measure in both U.S. Customary and International System of Measurement (metric system) units with an emphasis on the metric system.
Fuel Efficiency	ID	SCI.6.6.S.1.6.4	Use evidence to analyze data in order to develop descriptions, explanations, predictions, and models.

Exploring the Extreme			
2006 Science			
Content Standards			
Idaho Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	ID	SCI.7.7.S.1.2.2	Use observations to make defendable inferences.
Jet Propulsion	ID	SCI.7.7.S.1.2.3	Use models to explain or demonstrate a concept.
Jet Propulsion	ID	SCI.7.7.S.1.6.1	Identify controls and variables used in scientific investigations.
Jet Propulsion	ID	SCI.7.7.S.1.6.2	Use appropriate tools and techniques to gather and display data.
Jet Propulsion	ID	SCI.7.7.S.1.6.6	Communicate and defend scientific procedures and explanations.
Vectoring	ID	SCI.7.7.S.1.2.2	Use observations to make defendable inferences.
Vectoring	ID	SCI.7.7.S.1.2.3	Use models to explain or demonstrate a concept.
Vectoring	ID	SCI.7.7.S.1.6.1	Identify controls and variables used in scientific investigations.
Vectoring	ID	SCI.7.7.S.1.6.6	Communicate and defend scientific procedures and explanations.
Center of Gravity, Pitch, Yaw	ID	SCI.7.7.S.1.2.3	Use models to explain or demonstrate a concept.
Fuel Efficiency	ID	SCI.7.7.S.1.2.3	Use models to explain or demonstrate a concept.
Exploring the Extreme			
2006 Science			
Content Standards			
Idaho Science			
Grades 8-9 (8th & 9th Grade Physical Science)			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	ID	SCI.8-9.8-9.PS.1.2.2	Develop models to explain concepts or systems.
Jet Propulsion	ID	SCI.8-9.8-9.PS.1.6.4	Formulate scientific explanations and models using logic and evidence.
Jet Propulsion	ID	SCI.8-9.8-9.PS.1.6.6	Communicate and defend a scientific argument.
Vectoring	ID	SCI.8-9.8-9.PS.1.2.2	Develop models to explain concepts or systems.
Vectoring	ID	SCI.8-9.8-9.PS.1.6.2	Utilize the components of scientific problem solving to design, conduct, and communicate results of investigations.
Vectoring	ID	SCI.8-9.8-9.PS.1.6.6	Communicate and defend a scientific argument.
Center of Gravity, Pitch, Yaw	ID	SCI.8-9.8-9.PS.1.2.2	Develop models to explain concepts or systems.
Fuel Efficiency	ID	SCI.8-9.8-9.PS.1.2.2	Develop models to explain concepts or systems.

Fuel Efficiency	ID	SCI.8-9.8-9.PS.1.6.6	Communicate and defend a scientific argument.
Fuel Efficiency	ID	SCI.8-9.8-9.PS.1.8.1	Analyze technical writing, graphs, charts, and diagrams.