Exploring the Extreme			
2008 Science			
Content Standards			
Wyoming Science			
Grades K-4			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	WY	SCI.K-4.SC4.1.b	Concepts are taught within the context of the following Unifying Concepts and Processes of Science: Evidence, models, and explanations
Finding the Center of Gravity Using Rulers	WY	SCI.K-4.SC4.1.10	Position and Motion of Objects: Students demonstrate that pushing and pulling can change the position and motion of objects.
Finding the Center of Gravity Using Rulers	WY	SCI.K-4.SC4.2.2.1	Students use the inquiry process to conduct simple scientific investigations: Collect and organize data.
Finding the Center of Gravity Using Rulers	WY	SCI.K-4.SC4.2.2.4	Students use the inquiry process to conduct simple scientific investigations: Pose or identify questions and make predictions.
Finding the Center of Gravity Using Rulers	WY	SCI.K-4.SC4.2.2.5	Students use the inquiry process to conduct simple scientific investigations: Conduct investigations to answer questions and check predictions.
Finding the Center of Gravity Using Rulers	WY	SCI.K-4.SC4.2.3	Students identify and use appropriate scientific equipment.
Finding the Center of Gravity Using Plumb Lines	WY	SCI.K-4.SC4.1.b	Concepts are taught within the context of the following Unifying Concepts and Processes of Science: Evidence, models, and explanations
Finding the Center of Gravity Using Plumb Lines	WY	SCI.K-4.SC4.1.d	Concepts are taught within the context of the following Unifying Concepts and Processes of Science: Measurement
Finding the Center of Gravity Using Plumb Lines	WY	SCI.K-4.SC4.1.10	Position and Motion of Objects: Students demonstrate that pushing and pulling can change the position and motion of objects.
Finding the Center of Gravity Using Plumb Lines	WY	SCI.K-4.SC4.2.2.4	Students use the inquiry process to conduct simple scientific investigations: Conduct investigations to answer questions and check predictions.
Finding the Center of Gravity Using Plumb Lines	WY	SCI.K-4.SC4.2.3	Students identify and use appropriate scientific equipment.
Changing the Center of Gravity Using Moment Arms	WY	SCI.K-4.SC4.1.b	Concepts are taught within the context of the following Unifying Concepts and Processes of Science: Evidence, models, and explanations
Changing the Center of Gravity Using Moment Arms	WY	SCI.K-4.SC4.1.d	Concepts are taught within the context of the following Unifying Concepts and Processes of Science: Measurement

Changing the Center of Gravity Using Moment Arms	WY	SCI.K-4.SC4.1.10	Position and Motion of Objects: Students demonstrate that pushing and pulling can change the position and motion of objects.
Changing the Center of Gravity Using Moment Arms	WY	SCI.K-4.SC4.2.1	Students research answers to science questions and present findings through appropriate means.
Changing the Center of Gravity Using Moment Arms	WY	SCI.K-4.SC4.2.2.1	Students use the inquiry process to conduct simple scientific investigations: Collect and organize data.
Changing the Center of Gravity Using Moment Arms	WY	SCI.K-4.SC4.2.2.4	Students use the inquiry process to conduct simple scientific investigations: Conduct investigations to answer questions and check predictions.
Changing the Center of Gravity Using Moment Arms	WY	SCI.K-4.SC4.2.3	Students identify and use appropriate scientific equipment.
Exploring the Extreme			
2008 Science			
Content Standards			
Wyoming Science			
Grades 5-8			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	WY	SCI.5-8.SC8.1.b	Concepts are taught within the context of the following Unifying Concepts and Processes of Science: Evidence, models, and explanations
Jet Propulsion	WY	SCI.5-8.SC8.1.14	Effects of Motions and Forces: Students describe motion of an object by position, direction, and speed, and identify the effects of force and inertia on an object.
Jet Propulsion	WY	SCI.5-8.SC8.2.2.2	Students use inquiry to conduct scientific investigations: Collect, organize, and analyze and appropriately represent data.
Vectoring	WY	SCI.5-8.SC8.1.b	Concepts are taught within the context of the following Unifying Concepts and Processes of Science: Evidence, models, and explanations
Vectoring	WY	SCI.5-8.SC8.1.14	Effects of Motions and Forces: Students describe motion of an object by position, direction, and speed, and identify the effects of force and inertia on an object.
Vectoring	WY	SCI.5-8.SC8.2.2.2	Students use inquiry to conduct scientific investigations: Collect, organize, and analyze and appropriately represent data.
Vectoring	WY	SCI.5-8.SC8.2.2.4	Students use inquiry to conduct scientific investigations: Clearly and accurately communicate the result of the investigations.

Vectoring	WY	SCI.5-8.SC8.2.3	Students clearly and accurately communicate the result of their own work, as well as information obtained from other sources.
Center of Gravity, Pitch, Yaw	WY	SCI.5-8.SC8.1.b	Concepts are taught within the context of the following Unifying Concepts and Processes of Science: Evidence, models, and explanations
Center of Gravity, Pitch, Yaw	WY	SCI.5-8.SC8.1.14	Effects of Motions and Forces: Students describe motion of an object by position, direction, and speed, and identify the effects of force and inertia on an object.
Fuel Efficiency	WY	SCI.5-8.SC8.2.2.3	Draw conclusions based on evidence and make connections to applied scientific concepts.