

Exploring the Extreme			
2005 Mathematics			
Content and Achievement Standards			
North Dakota Mathematics			
Grade 1			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	ND	MA.1.1.4.9	Identify the appropriate tool used to measure length (i.e., ruler), weight (i.e., scale), time (i.e., clock, calendar) and temperature (i.e., thermometer)
Exploring the Extreme			
2005 Mathematics			
Content and Achievement Standards			
North Dakota Mathematics			
Grade 4			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	ND	MA.4.4.5.3	Solve problems with variables
Finding the Center of Gravity Using Plumb Lines	ND	MA.4.4.5.3	Solve problems with variables
Changing the Center of Gravity Using Moment Arms	ND	MA.4.4.5.3	Solve problems with variables
Exploring the Extreme			
2005 Mathematics			
Content and Achievement Standards			
North Dakota Mathematics			
Grade 5			
Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	ND	MA.5.5.1.10	Explain and demonstrate the concept of a percent
Center of Gravity, Pitch, Yaw	ND	MA.5.5.4.1	Estimate and measure length to the nearest eighth inch
Exploring the Extreme			
2005 Mathematics			
Content and Achievement Standards			
North Dakota Mathematics			
Grade 6			
Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	ND	MA.6.6.1.2	Explain and use whole number percents 1 to 100
Center of Gravity, Pitch, Yaw	ND	MA.6.6.1.14	Estimate the results of problems involving whole numbers, fractions, and decimals
Fuel Efficiency	ND	MA.6.6.1.14	Estimate the results of problems involving whole numbers, fractions, and decimals

Fuel Efficiency	ND	MA.6.6.2.6	Draw basic geometric figures using appropriate tools; i.e., circle with a compass, triangle and rectangle with a ruler or straight edge
Fuel Efficiency	ND	MA.6.6.3.1	Collect and organize data, select and use an appropriate display; i.e., a frequency table, a line and bar graph
Fuel Efficiency	ND	MA.6.6.3.6	Make predictions based on trends identified in tables and graphs
Fuel Efficiency	ND	MA.6.6.5.1	Identify and describe patterns represented by tables, graphs, and sequences
Exploring the Extreme			
2005 Mathematics			
Content and Achievement Standards			
North Dakota Mathematics			
Grade 7			
Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	ND	MA.7.7.1.9	Estimate the results of problems involving fractions, decimals, and percents
Fuel Efficiency	ND	MA.7.7.5.1	Create tables and graphs to analyze and describe patterns
Exploring the Extreme			
2005 Mathematics			
Content and Achievement Standards			
North Dakota Mathematics			
Grade 8			
Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	ND	MA.8.8.1.2	Solve real-world problems involving ratio, proportion, and percent