

Exploring the Extreme			
2006 Mathematics			
Content Standards			
Idaho Mathematics			
Grade 1			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	ID	MA.1.1.M.2.1.1	Use non-standard tools and units for measuring length, volume (capacity), and weight.
Exploring the Extreme			
2006 Mathematics			
Content Standards			
Idaho Mathematics			
Grade 2			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	ID	MA.2.2.M.2.1.1	Select a tool that can measure a given attribute (ruler – length, cup – volume, balance – weight, clock – time, thermometer – temperature).
Exploring the Extreme			
2006 Mathematics			
Content Standards			
Idaho Mathematics			
Grade 3			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	ID	MA.3.3.M.2.1.1	Select and use appropriate units and tools to make formal measurements of length and temperature in both systems.
Finding the Center of Gravity Using Plumb Lines	ID	MA.3.3.M.2.1.1	Select and use appropriate units and tools to make formal measurements of length and temperature in both systems.
Changing the Center of Gravity Using Moment Arms	ID	MA.3.3.M.2.1.1	Select and use appropriate units and tools to make formal measurements of length and temperature in both systems.
Exploring the Extreme			
2006 Mathematics			
Content Standards			
Idaho Mathematics			
Grade 4			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	ID	MA.4.4.M.2.1.1	Select and use appropriate units and tools to make the formal measurements of length, temperature, and weight in both systems.
Finding the Center of Gravity Using Plumb Lines	ID	MA.4.4.M.2.1.1	Select and use appropriate units and tools to make the formal measurements of length, temperature, and weight in both systems.

Changing the Center of Gravity Using Moment Arms	ID	MA.4.4.M.2.1.1	Select and use appropriate units and tools to make the formal measurements of length, temperature, and weight in both systems.
Exploring the Extreme			
2006 Mathematics			
Content Standards			
Idaho Mathematics			
Grade 5			
Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	ID	MA.5.5.M.1.2.6	Select and use an appropriate method of computation from mental math, paper and pencil, calculator or a combination of the three.
Center of Gravity, Pitch, Yaw	ID	MA.5.5.M.1.3.1	Estimate to predict computation results.
Center of Gravity, Pitch, Yaw	ID	MA.5.5.M.1.3.2	Identify when an estimate is sufficient or when an exact answer is required.
Center of Gravity, Pitch, Yaw	ID	MA.5.5.M.2.1.1	Select and use appropriate units and tools to make formal measurements of length, temperature, weight, and volume (capacity) in both systems.
Exploring the Extreme			
2006 Mathematics			
Content Standards			
Idaho Mathematics			
Grade 6			
Activity/Lesson	State	Standards	
Jet Propulsion	ID	MA.6.6.M.3.1.1	Discuss the meaning and use of variables in simple expressions and equations.
Vectoring	ID	MA.6.6.M.3.1.1	Discuss the meaning and use of variables in simple expressions and equations.
Center of Gravity, Pitch, Yaw	ID	MA.6.6.M.1.2.4	Select and use an appropriate method of computation from mental math, paper and pencil, calculator or a combination of the three.
Center of Gravity, Pitch, Yaw	ID	MA.6.6.M.1.3.1	Estimate to predict computation results.
Fuel Efficiency	ID	MA.6.6.M.1.2.4	Select and use an appropriate method of computation from mental math, paper and pencil, calculator or a combination of the three.
Fuel Efficiency	ID	MA.6.6.M.1.3.1	Estimate to predict computation results.
Fuel Efficiency	ID	MA.6.6.M.3.1.1	Discuss the meaning and use of variables in simple expressions and equations.
Fuel Efficiency	ID	MA.6.6.M.5.1.1	Read and interpret tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables, line plots, and circle graphs.

Fuel Efficiency	ID	MA.6.6.M.5.1.2	Explain and justify stated conclusions drawn from tables, charts, and graphs.
Fuel Efficiency	ID	MA.6.6.M.5.2.1	Collect, organize, and display the data with appropriate notation in tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables and line plots.
Exploring the Extreme			
2006 Mathematics			
Content Standards			
Idaho Mathematics			
Grade 7			
Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	ID	MA.7.7.M.1.2.5	Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three.
Center of Gravity, Pitch, Yaw	ID	MA.7.7.M.1.3.1	Estimate to predict computation results.
Fuel Efficiency	ID	MA.7.7.M.1.2.5	Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three.
Fuel Efficiency	ID	MA.7.7.M.1.3.1	Estimate to predict computation results.
Fuel Efficiency	ID	MA.7.7.M.3.1.1	Use variables in simple expressions and equations.
Fuel Efficiency	ID	MA.7.7.M.3.5.1	Represent a simple set of data in a table, as a graph, and as a mathematical relationship.
Fuel Efficiency	ID	MA.7.7.M.5.1.1	Read and interpret tables, charts, and graphs, including frequency tables, scatter plots, broken line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots.
Fuel Efficiency	ID	MA.7.7.M.5.1.2	Explain conclusions drawn from tables, charts, and graphs.
Fuel Efficiency	ID	MA.7.7.M.5.2.1	Collect, organize, and display data with appropriate notation in tables, charts and graphs, including scatter plots, broken line graphs, line plots, bar graphs, and stem-and-leaf plots.
Exploring the Extreme			
2006 Mathematics			
Content Standards			
Idaho Mathematics			
Grade 8			
Activity/Lesson	State	Standards	

Center of Gravity, Pitch, Yaw	ID	MA.8.8.M.1.2.5	Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three.
Fuel Efficiency	ID	MA.8.8.M.1.2.5	Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three.
Fuel Efficiency	ID	MA.8.8.M.1.2.6	Use a variety of strategies including common mathematical formulas to compute problems drawn from real life situations.
Fuel Efficiency	ID	MA.8.8.M.3.1.1	Use variables in expressions, equations, and inequalities.
Fuel Efficiency	ID	MA.8.8.M.3.5.1	Represent a set of data in a table, as a graph, and as a mathematical relationship.
Fuel Efficiency	ID	MA.8.8.M.5.1.1	Analyze and interpret tables, charts, and graphs, including frequency tables, scatter plots, broken line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots.
Fuel Efficiency	ID	MA.8.8.M.5.1.2	Explain and justify conclusions drawn from tables, charts, and graphs.
Fuel Efficiency	ID	MA.8.8.M.5.2.1	Collect, organize, and display data with appropriate notation in tables, charts, and graphs, including scatter plots, broken line graphs, line plots, bar graphs, histograms, and stem-and-leaf plots.
Fuel Efficiency	ID	MA.8.8.M.5.5.2	Conduct statistical experiments and interpret results using tables, charts, or graphs.