

Exploring the Extreme			
2004 Mathematics			
Grade Level Expectations			
Louisiana Mathematics			
Grade 2			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	LA	MA.2.28	Generate questions that can be answered by collecting and analyzing data
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Louisiana Mathematics			
Grade 4			
Activity/Lesson	State	Standards	
Changing the Center of Gravity Using Moment Arms	LA	MA.4.22	Select and use the appropriate standard units of measure, abbreviations, and tools to measure length and perimeter (i.e., in., cm, ft., yd., mile, m, km), area (i.e., square inch, square foot, square centimeter), capacity (i.e., fl. oz., cup, pt., qt., gal., l, ml), weight/mass (i.e., oz., lb., g, kg, ton), and volume (i.e., cubic cm, cubic in.)
Changing the Center of Gravity Using Moment Arms	LA	MA.4.44	Represent the relationship in an input-output situation using a simple equation, graph, table, or word description
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Grade 5			
Activity/Lesson	State	Standards	
Vectoring	LA	MA.5.21	Measure angles to the nearest degree
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Louisiana Mathematics			
Grade 6			
Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	LA	MA.6.13	Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers
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Grade 8			
Activity/Lesson	State	Standards	
Vectoring	LA	MA.8.39	Analyze and make predictions from discovered data patterns
Center of Gravity, Pitch, Yaw	LA	MA.8.3	Estimate the answer to an operation involving rational numbers based on the original numbers
Fuel Efficiency	LA	MA.8.16	Explain and formulate generalizations about how a change in one variable results in a change in another variable