

Flight-Testing Newton's Laws			
2004 Mathematics			
Curriculum Framework			
Arkansas Mathematics			
Grades 9-12 (Algebraic Connections)			
Activity/Lesson	State	Standards	
Session-1 (1-17)	AR	MA.9-12.SEI.3.AC.5	Determine and describe, with and without appropriate technology, the resulting change in the perimeter, area, and volume when one or more dimensions change (apply this idea in solving real world problems)
Session-1 (1-17)	AR	MA.9-12.NF.4.AC.5	Identify and apply nonlinear functions to real world situations such as acceleration, area, volume, population, bacteria, compound interest, percent depreciation and appreciation, amortization, geometric sequences, etc.
Session-2 (1-10)	AR	MA.9-12.SEI.3.AC.3	Solve linear formulas and literal equations for a specified variable
Session-7 (1-5)	AR	MA.9-12.SEI.3.AC.3	Solve linear formulas and literal equations for a specified variable
Session-7 (1-5)	AR	MA.9-12.SEI.3.AC.5	Determine and describe, with and without appropriate technology, the resulting change in the perimeter, area, and volume when one or more dimensions change (apply this idea in solving real world problems)
Session-8 (1-9)	AR	MA.9-12.LF.2.AC.6	Determine, using slope, whether a pair of lines are parallel, perpendicular, or neither
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Grades 9-12 (Algebra III)			
Activity/Lesson	State	Standards	
Session-10 (1-5)	AR	MA.9-12.ELF.3.AIII.3	Solve, with and without appropriate technology, equations and real world problems involving exponential and logarithmic expressions graphically, algebraically and numerically
Session-10 (1-5)	AR	MA.9-12.SS.4.AIII.5	Use, with and without appropriate technology, sequences and series to solve real world problems
Session-1 (1-17)	AR	MA.9-12.ELF.3.AIII.3	Solve, with and without appropriate technology, equations and real world problems involving exponential and logarithmic expressions graphically, algebraically and numerically
Flight-Testing Newton's Laws			
2004 Mathematics			
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Arkansas Mathematics			
Grades 9-12 (Pre-Calculus Including Trigonometry)			
Activity/Lesson	State	Standards	

Session-10 (1-5)	AR	MA.9-12.ELF.2.PCT.3	Solve graphically, algebraically and numerically, with and without appropriate technology, equations and real world problems involving exponential and logarithmic expressions
Session-10 (1-5)	AR	MA.9-12.C.3.PCT.3	Solve, with and without appropriate technology, real world problems involving conic sections
Session-10 (1-5)	AR	MA.9-12.OT.6.PCT.2	Solve real world problems applying the Law of Sines and the Law of Cosines and appropriate technology when needed
Session-7 (1-5)	AR	MA.9-12.SS.4.PCT.5	Use, with and without appropriate technology, sequences and series to solve real world problems