

<b>Flight-Testing Newton's Laws</b>			
<b>2005 Mathematics</b>			
<b>Learning Standards</b>			
<b>District of Columbia Mathematics</b>			
<b>Grades 9-12 (Algebra I)</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Session-10 (1-5)	DC	MA.AI.P.4	Translate between different representations of functions and relations: graphs, equations, sets of ordered pairs (scatter plots), verbal, and tabular.
Session-10 (1-5)	DC	MA.AI.P.14	Solve everyday problems (e.g., compound interest and direct and inverse variation problems) that can be modeled using linear or quadratic functions. Apply appropriate graphical or symbolic methods to the solution.
Session-7 (1-5)	DC	MA.AI.P.4	Translate between different representations of functions and relations: graphs, equations, sets of ordered pairs (scatter plots), verbal, and tabular.
<b>Flight-Testing Newton's Laws</b>			
<b>2005 Mathematics</b>			
<b>Learning Standards</b>			
<b>District of Columbia Mathematics</b>			
<b>Grades 9-12 (Algebra II)</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Session-10 (1-5)	DC	MA.AII.P.8	Explore matrices and their operations, including using them to solve systems of linear equations. Apply to solutions of everyday problems.
Session-10 (1-5)	DC	MA.AII.P.10	Solve everyday problems that can be modeled using polynomial, rational, exponential, logarithmic, and step functions; absolute values; and square roots. Apply appropriate graphical, tabular, or symbolic methods to the solution. Include compound interest, exponential growth and decay, and direct and inverse variation problems.
Session-1 (1-17)	DC	MA.AII.P.8	Explore matrices and their operations, including using them to solve systems of linear equations. Apply to solutions of everyday problems.
<b>2005 Mathematics</b>			
<b>Learning Standards</b>			
<b>District of Columbia Mathematics</b>			
<b>Grades 9-12 (Precalculus and Trigonometry)</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Session-10 (1-5)	DC	MA.PCT.P.3	Use matrices to solve systems of linear equations. Apply to the solution of everyday problems.

Session-10 (1-5)	DC	MA.PCT.M.2	Use dimensional analysis for unit conversion and to confirm that expressions and equations make sense.
Session-3 (1-6)	DC	MA.PCT.G.1	Demonstrate an understanding of the laws of sines and cosines. Use the laws to solve for the unknown sides or angles in triangles. Determine the area of a triangle given the length of two adjacent sides and the measure of the included angle.