

<b>Flight-Testing Newton's Laws</b>			
<b>2002 Mathematics</b>			
<b>Academic Standards</b>			
<b>Pennsylvania Mathematics</b>			
<b>Grade 11</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Session-10 (1-5)	PA	MA.11.2.8.11.E	Use equations to represent curves (e.g., lines, circles, ellipses, parabolas, hyperbolas).
Session-2 (1-10)	PA	MA.11.2.8.11.E	Use equations to represent curves (e.g., lines, circles, ellipses, parabolas, hyperbolas).
Session-4 (1-11)	PA	MA.11.2.8.11.D	Formulate expressions, equations, inequalities, systems of equations, systems of inequalities and matrices to model routine and non-routine problem situations.
Session-4 (1-11)	PA	MA.11.2.8.11.E	Use equations to represent curves (e.g., lines, circles, ellipses, parabolas, hyperbolas).
Session-5 (1-6)	PA	MA.11.2.8.11.E	Use equations to represent curves (e.g., lines, circles, ellipses, parabolas, hyperbolas).
Session-6 ( 1-8)	PA	MA.11.2.8.11.D	Formulate expressions, equations, inequalities, systems of equations, systems of inequalities and matrices to model routine and non-routine problem situations.
Session-7 (1-5)	PA	MA.11.2.8.11.D	Formulate expressions, equations, inequalities, systems of equations, systems of inequalities and matrices to model routine and non-routine problem situations.
Session-7 (1-5)	PA	MA.11.2.10.11.B	Identify, create and solve practical problems involving right triangles using the trigonometric functions and the Pythagorean Theorem.