

Flight-Testing Newton's Laws			
2007 Mathematics			
Standards			
Oregon Mathematics			
Grades 9-12 (Algebra)			
Activity/Lesson	State	Standards	
Session-10 (1-5)	OR	MA.9-12.H.2A.5	Given a linear function, interpret and analyze the relationship between the independent and dependent variables. Solve for x given f(x) or solve for f(x) given x.
Session-1 (1-17)	OR	MA.9-12.H.2A.5	Given a linear function, interpret and analyze the relationship between the independent and dependent variables. Solve for x given f(x) or solve for f(x) given x.
Session-2 (1-10)	OR	MA.9-12.H.2A.5	Given a linear function, interpret and analyze the relationship between the independent and dependent variables. Solve for x given f(x) or solve for f(x) given x.
Session-3 (1-6)	OR	MA.9-12.H.2A.5	Given a linear function, interpret and analyze the relationship between the independent and dependent variables. Solve for x given f(x) or solve for f(x) given x.
Session-4 (1-11)	OR	MA.9-12.H.2A.5	Given a linear function, interpret and analyze the relationship between the independent and dependent variables. Solve for x given f(x) or solve for f(x) given x.
Session-5 (1-6)	OR	MA.9-12.H.2A.5	Given a linear function, interpret and analyze the relationship between the independent and dependent variables. Solve for x given f(x) or solve for f(x) given x.
Session-6 (1-8)	OR	MA.9-12.H.2A.5	Given a linear function, interpret and analyze the relationship between the independent and dependent variables. Solve for x given f(x) or solve for f(x) given x.
Session-7 (1-5)	OR	MA.9-12.H.2A.5	Given a linear function, interpret and analyze the relationship between the independent and dependent variables. Solve for x given f(x) or solve for f(x) given x.
Session-8 (1-9)	OR	MA.9-12.H.2A.3	Determine the equation of a line given any of the following information: two points on the line, its slope and one point on the line, or its graph. Also, determine an equation of a new line, parallel or perpendicular to a given line, through a given point.
Session-9 (1-7)	OR	MA.9-12.H.2A.5	Given a linear function, interpret and analyze the relationship between the independent and dependent variables. Solve for x given f(x) or solve for f(x) given x.
Flight-Testing Newton's Laws			
2007 Mathematics			
Standards			

Oregon Mathematics			
Grades 9-12 (Advanced Algebra)			
Activity/Lesson	State	Standards	
Session-10 (1-5)	OR	MA.9-12.A.A.2.1	Graph, solve, and analyze inequalities in two variables.
Session-1 (1-17)	OR	MA.9-12.A.A.2.1	Graph, solve, and analyze inequalities in two variables.
Session-2 (1-10)	OR	MA.9-12.A.A.2.1	Graph, solve, and analyze inequalities in two variables.
Session-3 (1-6)	OR	MA.9-12.A.A.2.1	Graph, solve, and analyze inequalities in two variables.
Session-4 (1-11)	OR	MA.9-12.A.A.2.1	Graph, solve, and analyze inequalities in two variables.
Session-5 (1-6)	OR	MA.9-12.A.A.2.1	Graph, solve, and analyze inequalities in two variables.
Session-6 (1-8)	OR	MA.9-12.A.A.2.1	Graph, solve, and analyze inequalities in two variables.
Session-7 (1-5)	OR	MA.9-12.A.A.2.1	Graph, solve, and analyze inequalities in two variables.
Session-8 (1-9)	OR	MA.9-12.A.A.2.1	Graph, solve, and analyze inequalities in two variables.
Session-9 (1-7)	OR	MA.9-12.A.A.2.1	Graph, solve, and analyze inequalities in two variables.

Flight-Testing Newton's Laws

2007 Mathematics

Standards

Oregon Mathematics			
Grades 9-12 (Trigonometry)			
Activity/Lesson	State	Standards	
Session-10 (1-5)	OR	MA.9-12.A.T.1.3	Develop and apply the Law of Sines and the Law of Cosines.
Session-10 (1-5)	OR	MA.9-12.A.T.2.6	Solve problems using linear and angular velocity.
Session-1 (1-17)	OR	MA.9-12.A.T.2.6	Solve problems using linear and angular velocity.
Session-3 (1-6)	OR	MA.9-12.A.T.2.6	Solve problems using linear and angular velocity.
Session-4 (1-11)	OR	MA.9-12.A.T.1.3	Develop and apply the Law of Sines and the Law of Cosines.
Session-5 (1-6)	OR	MA.9-12.A.T.2.6	Solve problems using linear and angular velocity.
Session-6 (1-8)	OR	MA.9-12.A.T.2.6	Solve problems using linear and angular velocity.
Session-7 (1-5)	OR	MA.9-12.A.T.2.6	Solve problems using linear and angular velocity.
Session-8 (1-9)	OR	MA.9-12.A.T.2.6	Solve problems using linear and angular velocity.
Session-9 (1-7)	OR	MA.9-12.A.T.2.6	Solve problems using linear and angular velocity.

Flight-Testing Newton's Laws

2007 Mathematics			
Standards			
Oregon Mathematics			
Grades 9-12 (Calculus)			
Activity/Lesson	State	Standards	
Session-10 (1-5)	OR	MA.9-12.A.C.2.3	Apply derivatives to solve problems in various applications including distance, velocity, and acceleration and optimization problems.
Session-1 (1-17)	OR	MA.9-12.A.C.2.3	Apply derivatives to solve problems in various applications including distance, velocity, and acceleration and optimization problems.
Session-2 (1-10)	OR	MA.9-12.A.C.2.3	Apply derivatives to solve problems in various applications including distance, velocity, and acceleration and optimization problems.
Session-3 (1-6)	OR	MA.9-12.A.C.2.3	Apply derivatives to solve problems in various applications including distance, velocity, and acceleration and optimization problems.
Session-4 (1-11)	OR	MA.9-12.A.C.2.3	Apply derivatives to solve problems in various applications including distance, velocity, and acceleration and optimization problems.
Session-5 (1-6)	OR	MA.9-12.A.C.2.3	Apply derivatives to solve problems in various applications including distance, velocity, and acceleration and optimization problems.
Session-6 (1-8)	OR	MA.9-12.A.C.2.3	Apply derivatives to solve problems in various applications including distance, velocity, and acceleration and optimization problems.
Session-7 (1-5)	OR	MA.9-12.A.C.2.3	Apply derivatives to solve problems in various applications including distance, velocity, and acceleration and optimization problems.
Session-8 (1-9)	OR	MA.9-12.A.C.2.4	Apply formulas to find derivatives both implicitly and explicitly, including using the product, quotient and chain rules.
Session-9 (1-7)	OR	MA.9-12.A.C.2.3	Apply derivatives to solve problems in various applications including distance, velocity, and acceleration and optimization problems.