Exploring Aeronautics			
2007 Mathematics			
Learning Results: Parameters for Essential Instruction			
Maine Mathematics			
Grade 5			
Activity/Lesson	**State**	**Standards**	
The Resource Center	ME	MA.5.A.1.c	Compare and order numbers up to 10 million.
The Resource Center	ME	MA.5.A.5.a	Compare, order, read, round, and interpret decimals with up to three decimal places.
The Resource Center	ME	MA.5.A.6.a	Place positive and negative integers on a number line or scale.
The Resource Center	ME	MA.5.A.6.b	Compare and order positive and negative integers.
Integrating with Aeronautics	ME	MA.5.B.2	Students read, construct, and interpret line graphs.
Integrating with Aeronautics	ME	MA.5.D.3	Students use tables, rules, diagrams, and graphs to represent and analyze the relationship between quantities.
Integrating with Aeronautics	ME	MA.5.A.1.c	Compare and order numbers up to 10 million.
Integrating with Aeronautics	ME	MA.5.A.5.a	Compare, order, read, round, and interpret decimals with up to three decimal places.
Integrating with Aeronautics	ME	MA.5.A.6.a	Place positive and negative integers on a number line or scale.
Integrating with Aeronautics	ME	MA.5.A.6.b	Compare and order positive and negative integers.
Scientific Method(124-144)	ME	MA.5.B.2	Students read, construct, and interpret line graphs.
Exploring Aeronautics			
2007 Mathematics			
Learning Results: Parameters for Essential Instruction			
Maine Mathematics			
Grade 6			
Activity/Lesson	**State**	**Standards**	
The Resource Center	ME	MA.6.A.2	Students express fractions greater than 0 as decimals and compare positive numbers that are written as fractions and decimals and place them on the number line.
Integrating with Aeronautics	ME	MA.6.A.2	Students express fractions greater than 0 as decimals and compare positive numbers that are written as fractions and decimals and place them on the number line.
Integrating with Aeronautics	ME	MA.6.A.4.a	Use ratios to describe relationships between quantities.
Integrating with Aeronautics	ME	MA.6.D.1.a	Create and evaluate expressions using whole numbers.
Integrating with Aeronautics	ME	MA.6.D.1.b	Create and evaluate expressions using positive fractions including decimals.
Integrating with Aeronautics	ME	MA.6.D.2.a	Solve equations of the form ax +/- b = c where a, b, and c are whole numbers.
Integrating with Aeronautics	ME	MA.6.D.3.a	Use tables, formulas and graphs to analyze constant difference (additive) relationships.

Scientific Method(124-144)	ME	MA.6.B.2	Students read and interpret pie charts.
Exploring Aeronautics			
2007 Mathematics			
Learning Results: Parameters for Essential Instruction			
Maine Mathematics			
Grade 7			
Activity/Lesson	**State**	**Standards**	
The Resource Center	ME	MA.7.A.1.b	Compare signed rational numbers and place them on the number line.
The Resource Center	ME	MA.7.A.3.a	Use ratios to compare quantities and use comparison to solve problems.
Integrating with Aeronautics	ME	MA.7.A.1.b	Compare signed rational numbers and place them on the number line.
Integrating with Aeronautics	ME	MA.7.A.3.a	Use ratios to compare quantities and use comparison to solve problems.
Integrating with Aeronautics	ME	MA.7.D.1.a	Create and evaluate expressions using integers.
Integrating with Aeronautics	ME	MA.7.D.1.b	Create and evaluate expressions using rational numbers.
Scientific Method(124-144)	ME	MA.7.B.1.a	Create tables, pictograms, bar graphs, line graphs, pie charts, stem and leaf plots, box and whiskers plots, and histograms using pencil and paper and electronic technologies.
Scientific Method(124-144)	ME	MA.7.B.1.b	Draw conclusions based on graphs and charts including tables, pictograms, bar graphs, line graphs, pie charts, stem and leaf plots, box and whiskers plots, and histograms.
Exploring Aeronautics			
2007 Mathematics			
Learning Results: Parameters for Essential Instruction			
Maine Mathematics			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Tools of Aeronautics(257-326)	ME	MA.8.B.4.b	Use an understanding of relative frequency to make and test conjectures about results of experiments and simulations.
The Tools of Aeronautics	ME	MA.8.B.4.b	Use an understanding of relative frequency to make and test conjectures about results of experiments and simulations.
The Resource Center	ME	MA.8.A.1.c	Understand the set of real numbers as containing the rational numbers and the irrational number. Use square roots.
Science of Flight	ME	MA.8.B.4.b	Use an understanding of relative frequency to make and test conjectures about results of experiments and simulations.
Integrating with Aeronautics	ME	MA.8.B.3	Students use the mean, median, mode, range, and quartiles to solve problems involving raw data and information from data displays.
Integrating with Aeronautics	ME	MA.8.C.3	Students know and use the Pythagorean Theorem.

Integrating with Aeronautics	ME	MA.8.A.1.c	Understand the set of real numbers as containing the rational numbers and the irrational number. Use square roots.
Integrating with Aeronautics	ME	MA.8.D.1.a	Create and evaluate expressions using real numbers.
Integrating with Aeronautics	ME	MA.8.D.1.b	Add and subtract linear expressions.
Integrating with Aeronautics	ME	MA.8.D.1.c	Apply the properties of the real number system, including distributive and associative laws, to create equivalent expressions.
Scientific Method(124-144)	ME	MA.8.B.3	Students use the mean, median, mode, range, and quartiles to solve problems involving raw data and information from data displays.