

Exploring Aeronautics			
2004 Mathematics			
State Curriculum			
Maryland Mathematics			
Grade 5			
Activity/Lesson	State	Standards	
Science of Flight	MD	MA.5.4.A.1.a	Collect data by conducting surveys to answer a question
Integrating with Aeronautics	MD	MA.5.1.C.1.a	Represent decimals and mixed numbers on a number line
Integrating with Aeronautics	MD	MA.5.3.B.1.a	Select and use appropriate tools and units
Integrating with Aeronautics	MD	MA.5.4.A.1.d	Organize and display data in double bar graphs
Integrating with Aeronautics	MD	MA.5.4.A.1.e	Organize and display data in line graphs
Integrating with Aeronautics	MD	MA.5.4.A.1.f	Determine the appropriate type of graph to effectively display data
Scientific Method(124-144)	MD	MA.5.4.A.1.a	Collect data by conducting surveys to answer a question
Scientific Method(124-144)	MD	MA.5.4.A.1.b	Organize and display data in stem-and-leaf plots
Scientific Method(124-144)	MD	MA.5.4.A.1.c	Organize and display data in line plots
Scientific Method(124-144)	MD	MA.5.4.A.1.d	Organize and display data in double bar graphs
Scientific Method(124-144)	MD	MA.5.4.A.1.e	Organize and display data in line graphs
Scientific Method(124-144)	MD	MA.5.4.A.1.f	Determine the appropriate type of graph to effectively display data
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2004 Mathematics			
State Curriculum			
Maryland Mathematics			
Grade 6			
Activity/Lesson	State	Standards	
The Resource Center	MD	MA.6.6.A.1.d	Compare and order fractions, decimals alone or mixed together, with and without relational symbols (<, >, =)
The Resource Center	MD	MA.6.6.A.1.e	Compare and order integers
Integrating with Aeronautics	MD	MA.6.1.A.1.b	Interpret and write a rule for a one-operation (+, -, x, ÷) function table
Integrating with Aeronautics	MD	MA.6.1.B.1.a	Write an algebraic expression to represent unknown quantities
Integrating with Aeronautics	MD	MA.6.6.A.1.c	Identify and determine equivalent forms of fractions as decimals, as percents, and as ratios
Integrating with Aeronautics	MD	MA.6.6.C.3.a	Represent ratios in a variety of forms
Integrating with Aeronautics	MD	MA.6.6.C.3.b	Use ratios and unit rates to solve problems

Scientific Method(124-144)	MD	MA.6.4.A.1.a	Organize and display data to make frequency tables
Scientific Method(124-144)	MD	MA.6.4.A.1.b	Organize and display data to make stem-and-leaf plots
Scientific Method(124-144)	MD	MA.6.4.A.1.c	Organize and display data using a back-to-back stem-and-leaf plot
Scientific Method(124-144)	MD	MA.6.4.B.1.a	Interpret frequency tables
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Grade 7			
Activity/Lesson	State	Standards	
The Resource Center	MD	MA.7.1.C.1.a	Represent rational numbers on a number line
The Resource Center	MD	MA.7.6.A.1.d	Compare, order, and describe rational numbers with or without relational symbols (<, >, =)
Integrating with Aeronautics	MD	MA.7.1.B.1.a	Write an algebraic expression to represent unknown quantities
Integrating with Aeronautics	MD	MA.7.1.B.2.a	Write equations and inequalities to represent relationships
Integrating with Aeronautics	MD	MA.7.1.C.1.a	Represent rational numbers on a number line
Integrating with Aeronautics	MD	MA.7.2.A.2.c	Describe the relationship between the legs and hypotenuse of right triangles
Integrating with Aeronautics	MD	MA.7.6.A.1.c	Determine equivalent forms of rational numbers expressed as fractions, decimal, percents, and ratios
Scientific Method(124-144)	MD	MA.7.4.A.1.a	Organize and display data using back-to-back stem-and-leaf plots
Scientific Method(124-144)	MD	MA.7.4.A.1.b	Organize and display data to make circle graphs
Scientific Method(124-144)	MD	MA.7.4.B.1.a	Recognize and analyze faulty interpretation or representation of data
Scientific Method(124-144)	MD	MA.7.4.B.1.b	Determine the best choice of a data display
Scientific Method(124-144)	MD	MA.7.4.B.1.c	Analyze misleading data representation
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Grade 8			
Activity/Lesson	State	Standards	
The Resource Center	MD	MA.8.6.A.1.b	Compare, order, and describe rational numbers with and without relational symbols (<, >, =)
Integrating with Aeronautics	MD	MA.8.1.A.1.c	Determine whether relationships are linear or nonlinear when represented in words, in a table, symbolically, or in a graph
Integrating with Aeronautics	MD	MA.8.1.B.1.a	Write an algebraic expression to represent unknown quantities

Integrating with Aeronautics	MD	MA.8.1.B.1.e	Describe a real-world situation represented by an algebraic expression
Integrating with Aeronautics	MD	MA.8.1.B.2.a	Write equations or inequalities to represent relationships
Integrating with Aeronautics	MD	MA.8.1.B.2.e	Identify equivalent equations
Integrating with Aeronautics	MD	MA.8.1.B.2.g	Write equations and inequalities that describe real-world problems
Scientific Method(124-144)	MD	MA.8.4.A.1.a	Organize and display data to make circle graphs
Scientific Method(124-144)	MD	MA.8.4.A.1.b	Organize and display data to make box-and-whisker plots
Scientific Method(124-144)	MD	MA.8.4.A.1.c	Organize and display data to make a scatter plot
Scientific Method(124-144)	MD	MA.8.4.B.1.e	Analyze multiple box-and-whisker plots using the same scale