

<b>Exploring Aeronautics</b>			
<b>2003 Mathematics</b>			
<b>Course of Study</b>			
<b>Alabama Mathematics</b>			
<b>Grade 5</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
The Resource Center	AL	MA.5.5	Identify numbers less than zero by extending the number line.
Integrating with Aeronautics	AL	MA.5.2.1	Solve problems involving basic operations on whole numbers, including addition and subtraction of seven-digit numbers, multiplication with two-digit multipliers, and division with two-digit divisors. Estimating products and quotients
Integrating with Aeronautics	AL	MA.5.4.4	Estimating sums and differences of fractions
Integrating with Aeronautics	AL	MA.5.5	Identify numbers less than zero by extending the number line.
Integrating with Aeronautics	AL	MA.5.14.2	Using given measures of central tendency (mean, median, and mode) to analyze data
Scientific Method(124-144)	AL	MA.5.14.1	Evaluating different representations of the same data to determine how well each representation shows important aspects of the data
Scientific Method(124-144)	AL	MA.5.14.2	Using given measures of central tendency (mean, median, and mode) to analyze data
<b>Exploring Aeronautics</b>			
<b>2003 Mathematics</b>			
<b>Course of Study</b>			
<b>Alabama Mathematics</b>			
<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Wings(177-208)	AL	MA.6.7.1	Solve problems involving perimeter and area of parallelograms and rectangles. Estimating perimeter and area
The Resource Center	AL	MA.6.1.1	Comparing rational numbers written as fractions, decimals, mixed numbers, and percents
Science of Flight	AL	MA.6.9	Convert units of length, weight, or capacity within the same system (customary or metric).
Integrating with Aeronautics	AL	MA.6.2.1	Solve problems involving decimals, percents, fractions, and proportions.
Integrating with Aeronautics	AL	MA.6.8.1	Using different forms of notation to symbolize ratios and rates
Integrating with Aeronautics	AL	MA.6.9	Convert units of length, weight, or capacity within the same system (customary or metric).
Integrating with Aeronautics	AL	MA.6.10	Interpret information from bar graphs, line graphs, and circle graphs.
Scientific Method(124-144)	AL	MA.6.10	Interpret information from bar graphs, line graphs, and circle graphs.
<b>Exploring Aeronautics</b>			

<b>2003 Mathematics</b>			
<b>Course of Study</b>			
<b>Alabama Mathematics</b>			
<b>Grade 7</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
The Resource Center	AL	MA.7.6.2	Graphing solution sets of inequalities on a number line
Science of Flight	AL	MA.7.13.3	Modeling the probability of events through simulations with random numbers
Integrating with Aeronautics	AL	MA.7.4.1	Recognizing the relationships between numerical patterns in tables and their respective graphs in the coordinate plane
Integrating with Aeronautics	AL	MA.7.5.1	Exhibiting understanding of a variable as an unknown quantity
Integrating with Aeronautics	AL	MA.7.6.1	Solve one- and two-step equations. Solving inequalities in one variable
Integrating with Aeronautics	AL	MA.7.6.2	Graphing solution sets of inequalities on a number line
<b>Exploring Aeronautics</b>			
<b>2003 Mathematics</b>			
<b>Course of Study</b>			
<b>Alabama Mathematics</b>			
<b>Grade 8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Wings(177-208)	AL	MA.8.10	Find the perimeter and area of regular and irregular plane figures.
Wings(177-208)	AL	MA.8.11.1	Estimating surface area and volume of solid figures
Wings(177-208)	AL	MA.8.11.3	Developing formulas for determining surface area and volume of rectangular prisms, cylinders, and pyramids
Wings(177-208)	AL	MA.8.12.3	Finding the ratios of the perimeters and areas of similar triangles, trapezoids, and parallelograms
Tools of Aeronautics(257-326)	AL	MA.8.14.4	Determining the probability of an event through simulation
The Tools of Aeronautics	AL	MA.8.14.4	Determining the probability of an event through simulation
Science of Flight	AL	MA.8.14.4	Determining the probability of an event through simulation
Integrating with Aeronautics	AL	MA.8.7.2	Verifying the Pythagorean Theorem
Integrating with Aeronautics	AL	MA.8.7.3	Applying the Pythagorean Theorem to determine if a triangle is a right triangle
Integrating with Aeronautics	AL	MA.8.7.4	Applying the Pythagorean Theorem to find the missing length of a side of a right triangle
Integrating with Aeronautics	AL	MA.8.7.5	Calculating distances on the coordinate plane using the Pythagorean Theorem