

<b>Exploring Aeronautics</b>			
<b>2006 Mathematics</b>			
<b>Content Standards</b>			
<b>Idaho Mathematics</b>			
<b>Grade 5</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Fundamentals of Aeronautics (145-176)	ID	MA.5.5.M.5.1.1	Read and interpret tables, charts, bar graphs, and line graphs.
Fundamentals of Aeronautics (145-176)	ID	MA.5.5.M.5.1.2	Estimate and judge reasonableness of results. Use appropriate vocabulary.
Fundamentals of Aeronautics (145-176)	ID	MA.5.5.M.5.2.1	Collect, organize, and display the data with appropriate notation in tables, charts, bar graphs, and line graphs.
Wings(177-208)	ID	MA.5.5.M.2.1.5	Calculate the perimeter of polygons and the area of rectangles and squares.
Wings(177-208)	ID	MA.5.5.M.4.1.6	Explain the difference between perimeter and area of a polygon.
The Resource Center	ID	MA.5.5.M.1.1.1	Read, write, compare, and order whole numbers through millions and decimal numbers through thousandths.
The Resource Center	ID	MA.5.5.M.1.1.8	Estimate and judge reasonableness of results. Use appropriate vocabulary.
Science of Flight	ID	MA.5.5.M.2.1.1	Select and use appropriate units and tools to make formal measurements of length, temperature, weight, and volume (capacity) in both systems.
Science of Flight	ID	MA.5.5.M.2.1.2	Estimate length, time, weight, temperature, and volume (capacity) in real-world problems using standard units.
Science of Flight	ID	MA.5.5.M.5.2.1	Collect, organize, and display the data with appropriate notation in tables, charts, bar graphs, and line graphs.
Integrating with Aeronautics	ID	MA.5.5.M.1.1.1	Read, write, compare, and order whole numbers through millions and decimal numbers through thousandths.
Integrating with Aeronautics	ID	MA.5.5.M.1.2.6	Select and use an appropriate method of computation from mental math, paper and pencil, calculator or a combination of the three.
Integrating with Aeronautics	ID	MA.5.5.M.1.3.1	Estimate and judge reasonableness of results. Estimate to predict computation results.
Integrating with Aeronautics	ID	MA.5.5.M.1.3.2	Identify when an estimate is sufficient or when an exact answer is required.
Integrating with Aeronautics	ID	MA.5.5.M.2.1.1	Select and use appropriate units and tools to make formal measurements of length, temperature, weight, and volume (capacity) in both systems.
Integrating with Aeronautics	ID	MA.5.5.M.2.1.2	Estimate length, time, weight, temperature, and volume (capacity) in real-world problems using standard units.
Scientific Method(124-144)	ID	MA.5.5.M.5.1.1	Read and interpret tables, charts, bar graphs, and line graphs.

Scientific Method(124-144)	ID	MA.5.5.M.5.1.2	Estimate and judge reasonableness of results. Use appropriate vocabulary.
Scientific Method(124-144)	ID	MA.5.5.M.5.2.1	Collect, organize, and display the data with appropriate notation in tables, charts, bar graphs, and line graphs.
<b>Exploring Aeronautics</b>			
<b>2006 Mathematics</b>			
<b>Content Standards</b>			
<b>Idaho Mathematics</b>			
<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Fundamentals of Aeronautics (145-176)	ID	MA.6.6.M.5.1.1	Read and interpret tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables, line plots, and circle graphs.
Wings(177-208)	ID	MA.6.6.M.2.1.4	Given the formulas, find the perimeter or circumference and area of triangles, circles and parallelograms (all kinds).
Wings(177-208)	ID	MA.6.6.M.2.1.6	Solve problems involving perimeter and area of rectangles.
The Resource Center	ID	MA.6.6.M.1.1.1	Compare magnitudes and relative magnitudes of positive rational numbers, including whole numbers through billions, fractions, and decimals.
The Resource Center	ID	MA.6.6.M.1.1.3	Locate the position of integers on a number line.
The Resource Center	ID	MA.6.6.M.1.1.8	Estimate and judge reasonableness of results. Use appropriate vocabulary.
Science of Flight	ID	MA.6.6.M.5.1.2	Explain and justify stated conclusions drawn from tables, charts, and graphs.
Science of Flight	ID	MA.6.6.M.5.2.1	Collect, organize, and display the data with appropriate notation in tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables and line plots.
Integrating with Aeronautics	ID	MA.6.6.M.1.1.3	Locate the position of integers on a number line.
Integrating with Aeronautics	ID	MA.6.6.M.1.1.6	Solve problems using the 4-step process of problem solving (explore, plan, solve, and examine).
Integrating with Aeronautics	ID	MA.6.6.M.1.2.4	Select and use an appropriate method of computation from mental math, paper and pencil, calculator or a combination of the three.
Integrating with Aeronautics	ID	MA.6.6.M.3.1.1	Discuss the meaning and use of variables in simple expressions and equations.
Integrating with Aeronautics	ID	MA.6.6.M.3.1.2	Translate simple word statements into algebraic equations.
Integrating with Aeronautics	ID	MA.6.6.M.5.2.1	Collect, organize, and display the data with appropriate notation in tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables and line plots.
Scientific Method(124-144)	ID	MA.6.6.M.5.1.1	Read and interpret tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables, line plots, and circle graphs.

Scientific Method(124-144)	ID	MA.6.6.M.5.1.2	Explain and justify stated conclusions drawn from tables, charts, and graphs.
Scientific Method(124-144)	ID	MA.6.6.M.5.1.3	Estimate and judge reasonableness of results. Use appropriate vocabulary and notations.
Scientific Method(124-144)	ID	MA.6.6.M.5.2.1	Collect, organize, and display the data with appropriate notation in tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables and line plots.
<b>Exploring Aeronautics</b>			
<b>2006 Mathematics</b>			
<b>Content Standards</b>			
<b>Idaho Mathematics</b>			
<b>Grade 7</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Fundamentals of Aeronautics (145-176)	ID	MA.7.7.M.5.1.1	Read and interpret tables, charts, and graphs, including frequency tables, scatter plots, broken line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots.
Wings(177-208)	ID	MA.7.7.M.2.1.4	Given the formulas, find the perimeter, circumference, or area of triangles, circles, and quadrilaterals.
Wings(177-208)	ID	MA.7.7.M.2.1.6	Solve problems involving perimeter and area of rectangles and triangles.
The Resource Center	ID	MA.7.7.M.1.1.1	Compare magnitudes and relative magnitudes of rational numbers, including integers, fractions, and decimals.
The Resource Center	ID	MA.7.7.M.1.1.3	Locate the position of rational numbers on a number line.
The Resource Center	ID	MA.7.7.M.1.1.8	Estimate and judge reasonableness of results. Use appropriate vocabulary.
Science of Flight	ID	MA.7.7.M.5.1.2	Explain conclusions drawn from tables, charts, and graphs.
Science of Flight	ID	MA.7.7.M.5.2.1	Collect, organize, and display data with appropriate notation in tables, charts and graphs, including scatter plots, broken line graphs, line plots, bar graphs, and stem-and-leaf plots.
Integrating with Aeronautics	ID	MA.7.7.M.1.1.2	Solve problems requiring the conversion between simple decimals, fractions, ratios, and percents.
Integrating with Aeronautics	ID	MA.7.7.M.1.1.3	Locate the position of rational numbers on a number line.
Integrating with Aeronautics	ID	MA.7.7.M.1.2.5	Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three.
Integrating with Aeronautics	ID	MA.7.7.M.1.3.1	Estimate and judge reasonableness of results. Estimate to predict computation results.
Integrating with Aeronautics	ID	MA.7.7.M.1.3.2	Explain when estimation is appropriate and describe the usefulness of an estimate as opposed to an exact answer.

Scientific Method(124-144)	ID	MA.7.7.M.5.1.1	Read and interpret tables, charts, and graphs, including frequency tables, scatter plots, broken line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots.
Scientific Method(124-144)	ID	MA.7.7.M.5.1.2	Explain conclusions drawn from tables, charts, and graphs.
Scientific Method(124-144)	ID	MA.7.7.M.5.1.3	Estimate and judge reasonableness of results. Use appropriate vocabulary and notations.
Scientific Method(124-144)	ID	MA.7.7.M.5.2.1	Collect, organize, and display data with appropriate notation in tables, charts and graphs, including scatter plots, broken line graphs, line plots, bar graphs, and stem-and-leaf plots.
<b>Exploring Aeronautics</b>			
<b>2006 Mathematics</b>			
<b>Content Standards</b>			
<b>Idaho Mathematics</b>			
<b>Grade 8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Fundamentals of Aeronautics (145-176)	ID	MA.8.8.M.5.1.1	Analyze and interpret tables, charts, and graphs, including frequency tables, scatter plots, broken line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots.
Fundamentals of Aeronautics (145-176)	ID	MA.8.8.M.5.1.3	Estimate and judge reasonableness of results. Use appropriate vocabulary and notations.
Wings(177-208)	ID	MA.8.8.M.2.1.3	Compare the differences and relationships among measures of perimeter, area, and volume (capacity) within both systems.
Wings(177-208)	ID	MA.8.8.M.2.1.4	Given the formulas, find the circumference, perimeter, or area of triangles, circles, and quadrilaterals, and the volume and surface area of rectangular prisms.
Wings(177-208)	ID	MA.8.8.M.2.1.6	Solve problems involving area of circles and the perimeter and area of rectangles and triangles.
Tools of Aeronautics(257-326)	ID	MA.8.8.M.5.4.1	Model situations of probability using simulations.
The Tools of Aeronautics	ID	MA.8.8.M.5.4.1	Model situations of probability using simulations.
The Resource Center	ID	MA.8.8.M.1.1.1	Compare magnitudes and relative magnitudes of rational numbers, including integers, fractions, decimals, percents, and absolute values.
The Resource Center	ID	MA.8.8.M.1.1.3	Locate the position of rational numbers and positive real numbers on a number line.
The Resource Center	ID	MA.8.8.M.1.1.8	Estimate and judge reasonableness of results. Use appropriate vocabulary.
Science of Flight	ID	MA.8.8.M.5.1.2	Explain and justify conclusions drawn from tables, charts, and graphs.

Science of Flight	ID	MA.8.8.M.5.2.1	Collect, organize, and display data with appropriate notation in tables, charts, and graphs, including scatter plots, broken line graphs, line plots, bar graphs, histograms, and stem-and-leaf plots.
Science of Flight	ID	MA.8.8.M.5.4.1	Model situations of probability using simulations.
Integrating with Aeronautics	ID	MA.8.8.M.1.1.2	Use rational numbers, including percents and ratios, and pi to solve problems.
Integrating with Aeronautics	ID	MA.8.8.M.1.1.3	Locate the position of rational numbers and positive real numbers on a number line.
Integrating with Aeronautics	ID	MA.8.8.M.1.2.5	Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three.
Integrating with Aeronautics	ID	MA.8.8.M.1.3.1	Estimate and judge reasonableness of results. Estimate to predict computation results.
Integrating with Aeronautics	ID	MA.8.8.M.1.3.2	Identify when estimation is appropriate and apply to problem solving situations.
Scientific Method(124-144)	ID	MA.8.8.M.5.1.1	Analyze and interpret tables, charts, and graphs, including frequency tables, scatter plots, broken line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots.
Scientific Method(124-144)	ID	MA.8.8.M.5.1.2	Explain and justify conclusions drawn from tables, charts, and graphs.
Scientific Method(124-144)	ID	MA.8.8.M.5.1.3	Estimate and judge reasonableness of results. Use appropriate vocabulary and notations.
Scientific Method(124-144)	ID	MA.8.8.M.5.2.1	Collect, organize, and display data with appropriate notation in tables, charts, and graphs, including scatter plots, broken line graphs, line plots, bar graphs, histograms, and stem-and-leaf plots.
Scientific Method(124-144)	ID	MA.8.8.M.5.5.2	Conduct statistical experiments and interpret results using tables, charts, or graphs.