

<b>Learning to Fly: The Wright Brother's Adventure</b>			
<b>2006 Mathematics</b>			
<b>Program of Studies</b>			
<b>Kentucky Mathematics</b>			
<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Wright Brothers: 1902 Glider	KY	MA.6.MA-6-M-S-MPA2	read and use measurement tools (e.g., rulers, scales, protractors, angle rulers)
1903: Powered Flight	KY	MA.6.MA-6-M-S-MPA4	estimate and find angle measures and segment measures
1903: Powered Flight	KY	MA.6.MA-6-M-S-MPA5	estimate measurements in standard units, including fractions and decimals
1903: Powered Flight	KY	MA.6.MA-6-M-S-SM2.a	estimate, compare and convert (meaning to make ballpark comparisons/not memorize conversion factors between U.S. and metric) units of measurement for length, weight/mass and volume/capacity within the U.S. customary system and within the metric system (length (e.g., parts of an inch, inches, feet, yards, miles, millimeters, centimeters, meters, kilometers))
1903: Powered Flight	KY	MA.6.MA-6-M-S-SM2.b	estimate, compare and convert (meaning to make ballpark comparisons/not memorize conversion factors between U.S. and metric) units of measurement for length, weight/mass and volume/capacity within the U.S. customary system and within the metric system (weight/mass (e.g., pounds, tons, grams, kilograms))
1903: Powered Flight	KY	MA.6.MA-6-M-S-SM2.c	estimate, compare and convert (meaning to make ballpark comparisons/not memorize conversion factors between U.S. and metric) units of measurement for length, weight/mass and volume/capacity within the U.S. customary system and within the metric system (volume/capacity (e.g., cups, pints, quarts, gallons, milliliters, liters))
1903: Powered Flight	KY	MA.6.MA-6-DAP-S-DR1	select an appropriate graph to represent given data and justify the selection
1903: Powered Flight	KY	MA.6.MA-6-DAP-S-DR3	compare data from various types of graphs
1903: Powered Flight	KY	MA.6.MA-6-DAP-S-DR4	relate different representations of data (e.g., tables, graphs, diagrams, plots)
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<b>2006 Mathematics</b>			
<b>Program of Studies</b>			
<b>Kentucky Mathematics</b>			
<b>Grade 7</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	

Wright Brothers: 1902 Glider	KY	MA.7.MA-7-M- S-MPA1	read and use measurement tools (e.g., rulers, scales, protractors, angle rulers)
1902: Success at Last	KY	MA.7.MA-7- NPO-U-3	computing fluently and making reasonable estimates with fractions, decimals, percents and integers increases the ability to solve realistic problems encountered in everyday life.
1902: Success at Last	KY	MA.7.MA-7- NPO-S-E1	estimate and mentally compute to solve real-world and/or mathematical problems with fractions, decimals, percents and integers, checking for reasonable and appropriate computational results
1903: Powered Flight	KY	MA.7.MA-7- NPO-S-NO1	develop addition, subtraction, multiplication and division of integers both concretely and symbolically (mental, pencil and paper, calculators)
1903: Powered Flight	KY	MA.7.MA-7- NPO-S-NO3	add, subtract, multiply, divide and apply order of operations (including positive whole number exponents) with fractions, decimals and integers to solve real-world problems
1903: Powered Flight	KY	MA.7.MA-7-M- U-3	measurements are determined by using appropriate techniques, tools, formulas and degree of accuracy needed for the situation.
1903: Powered Flight	KY	MA.7.MA-7-M- S-MPA2	estimate and find angle measures and segment measures
1903: Powered Flight	KY	MA.7.MA-7- DAP-S-DR2	select an appropriate graph to represent given data and justify its use
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<b>Grade 8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Wright Brothers: 1902 Glider	KY	MA.8.MA-8-M- S-MPA1	read and use measurement tools (e.g., rulers, scales, protractors, angle rulers, CBL/CBRs)
1902: Success at Last	KY	MA.8.MA-8- NPO-U-3	computing fluently and making reasonable estimates with fractions, decimals, percents and integers increases the ability to solve realistic problems encountered in everyday life.
1902: Success at Last	KY	MA.8.MA-8-M- S-SM1	provide examples of and apply money, time and U.S. Customary and metric units of measurement to solve real-world problems
1902: Success at Last	KY	MA.8.MA-8- DAP-S-DR3	compare similar data from various types of graphs

1903: Powered Flight	KY	MA.8.MA-8-NPO-S-E1	estimate to solve real-world and/or mathematical problems with rational numbers and common irrational numbers, checking for reasonable and appropriate computational results
1903: Powered Flight	KY	MA.8.MA-8-NPO-S-RP2	derive and use formulas for various rates (e.g., distance/time, miles per hour)
1903: Powered Flight	KY	MA.8.MA-8-M-U-3	measurements are determined by using appropriate techniques, tools, formulas and degree of accuracy needed for the situation.
1903: Powered Flight	KY	MA.8.MA-8-M-S-MPA2	estimate and find angle measures and segment measures
1903: Powered Flight	KY	MA.8.MA-8-M-S-MPA8	estimate measurements in standard units in real world and/or mathematical situations
1903: Powered Flight	KY	MA.8.MA-8-M-S-SM1	provide examples of and apply money, time and U.S. Customary and metric units of measurement to solve real-world problems
1903: Powered Flight	KY	MA.8.MA-8-AT-S-PRF4	interpret and explain relationships between tables, graphs, verbal rules and equations, using technology as appropriate
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<b>Kentucky Mathematics</b>			
<b>Grades 9-12</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
New Data	KY	MA.9-12.MA- HS-NPO-S- NO12	develop fluency in operations with real numbers and matrices, using mental computation or paper-and-pencil calculations for simple cases and calculators and/or computers for more complicated cases
1902: Success at Last	KY	MA.9-12.MA- HS-DAP-S- CDS10	compare data sets using graphs and summary statistics
1903: Powered Flight	KY	MA.9-12.MA- HS-NPO-U-3	computing fluently and accurately with real numbers and making reasonable estimates increases the ability to solve realistic problems encountered in everyday life.
1903: Powered Flight	KY	MA.9-12.MA- HS-NPO-S-E1	use calculators appropriately and regularly make estimations without a calculator to detect potential errors
1903: Powered Flight	KY	MA.9-12.MA- HS-NPO-S-E2	estimate solutions to problems with real numbers (including very large and very small quantities) in both realistic and mathematical situations
1903: Powered Flight	KY	MA.9-12.MA- HS-M-U-3	measurements are determined by using appropriate techniques, tools, formulas and degree of accuracy needed for the situation.

1903: Powered Flight	KY	MA.9-12.MA- HS-M-S-SM5	compare and contrast the use of US Customary and metric systems of measurement
1903: Powered Flight	KY	MA.9-12.MA- HS-AT-S-E117	write and solve linear sentences, describing real-world situations by using and relating formulas, tables, graphs and equations