

<b>Learning to Fly: The Wright Brother's Adventure</b>			
<b>2006 21st Century Mathematics</b>			
<b>Standards and Objectives</b>			
<b>West Virginia 21st Century Mathematics</b>			
<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
1901: The First Improvement	WV	MA.6.M.O.6.3. 3	apply the concepts of parallel, perpendicular, intersecting, and skew lines to real-world situations (i.e. roads and routes).
1901: The First Improvement	WV	MA.6.M.O.6.5. 4	determine combinations and permutations of given real-world situations by multiple strategies, including creating lists.
1903: Powered Flight	WV	MA.6.M.O.6.1. 4	analyze and solve real-world problems involving addition, subtraction, multiplication and division of whole numbers, fractions, mixed numbers, decimals, integers, and justify the reasonableness by estimation.
1903: Powered Flight	WV	MA.6.M.O.6.5. 1	collect, organize, display, read, interpret and analyze real-world data using appropriate graphs and tables (with and without technology).
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<b>West Virginia 21st Century Mathematics</b>			
<b>Grade 7</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
1900: Kitty Hawks	WV	MA.7.M.O.7.2. 9	identify a real life problem involving proportionality; make a hypothesis as to the outcome; develop, justify, and implement a method to collect, organize, and analyze data; generalize the results to make a conclusion; compare the hypothesis and the conclusion; present the project using words, graphs, drawings, models, or tables.
1902: Success at Last	WV	MA.7.M.O.7.1. 5	analyze and solve grade-appropriate real-world problems with whole numbers, integers, decimals, fractions and percents including problems involving discounts, interest, taxes, tips, percent increase or decrease, and justify solutions including using estimation and reasonableness.
1903: Powered Flight	WV	MA.7.M.O.7.5. 3	collect, organize, graphically represent, and interpret data displays including frequency distributions, line-plots, scatter plots, box and whiskers, and multiple-line graphs.

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<b>Standards and Objectives</b>			
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<b>Grade 8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
The Society	WV	MA.8.M.O.8.2.10	identify a real life problem involving change over time; make a hypothesis as to the outcome; develop, justify, and implement a method to collect, organize, and analyze data; generalize the results to make a conclusion; compare the hypothesis and the result of the investigation; present the problem using words, graphs, drawings, models, or tables.
1900: Kitty Hawks	WV	MA.8.M.O.8.4.2	solve problems involving missing measurements in plane and solid geometric figures using formulas and drawings including irregular figures, models or definitions.
1901: The First Improvement	WV	MA.8.M.O.8.2.2	identify proportional relationships in real-world situations, then find and select an appropriate method to determine the solution; justify the reasonableness of the solution.
1902: Success at Last	WV	MA.8.M.O.8.4.2	solve problems involving missing measurements in plane and solid geometric figures using formulas and drawings including irregular figures, models or definitions.
1902: Success at Last	WV	MA.8.M.O.8.5.2	compare the experimental and theoretical probability of a given situation (including compound probability of a dependent and independent event).
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<b>Grades 9-12 (Algebra I)</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
The Society	WV	MA.9-12.M.O.A1.2.2	create and solve multi-step linear equations, absolute value equations, and linear inequalities in one variable, (with and without technology); apply skills toward solving practical problems such as distance, mixtures or motion and judge the reasonableness of solutions.