

<b>Adventures in Aeronautics</b>			
<b>2006 Mathematics</b>			
<b>Grade Level and Grade Span Expectations</b>			
<b>Rhode Island Mathematics</b>			
<b>Grade 3</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Adventures in Aeronautics	RI	MA.3.M(N&O)-3-2	Demonstrates understanding of the relative magnitude of numbers from 0 to 999 by ordering whole numbers; by comparing whole numbers to benchmark whole numbers (100, 250, 500, 750); or by comparing whole numbers to each other; and comparing or identifying equivalent positive fractional numbers ( $a/2$ , $a/3$ , $a/4$ where $a$ is a whole number greater than 0 and less than or equal to the denominator) using models, number lines, or explanations.
Adventures in Aeronautics	RI	MA.3.M(N&O)-3-4	Accurately solves problems involving addition and subtraction with regrouping; the concept of multiplication; and addition or subtraction of decimals (in the context of money).
Adventures in Aeronautics	RI	MA.3.M(F&A)-3-4	Demonstrates conceptual understanding of equality by showing equivalence between two expressions using models or different representations of the expressions; or by finding the value that will make an open sentence true (e.g., $2 + \underline{\quad} = 7$ ). (limited to one operation and limited to use addition, subtraction, or multiplication)
Adventures in Aeronautics	RI	MA.3.M(N&O)-3-1	Demonstrates conceptual understanding of rational numbers with respect to: whole numbers from 0 to 999 through equivalency, composition, decomposition, or place value using models, explanations, or other representations; and positive fractional numbers (benchmark fractions: $a/2$ , $a/3$ , $a/4$ , $a/6$ , or $a/8$ , where $a$ is a whole number greater than 0 and less than or equal to the denominator) as a part to whole relationship in area and set models where the number of parts in the whole is equal to the denominator; and decimals (within a context of money) as a part of 100 using models, explanations, or other representations.
<b>Adventures in Aeronautics</b>			
<b>2006 Mathematics</b>			
<b>Grade Level and Grade Span Expectations</b>			
<b>Rhode Island Mathematics</b>			
<b>Grade 4</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	

Adventures in Aeronautics	RI	MA.4.M(N&O)-4-2	Demonstrates understanding of the relative magnitude of numbers from 0 to 999,999 by ordering or comparing whole numbers; and ordering, comparing, or identifying equivalent proper positive fractional numbers; or decimals using models, number lines, or explanations.
Adventures in Aeronautics	RI	MA.4.M(G&M)-4-9	Demonstrates understanding of spatial relationships using location and position by interpreting and giving directions between locations on a map or coordinate grid (first quadrant); plotting points in the first quadrant in context (e.g., games, mapping); and finding the horizontal and vertical distances between points on a coordinate grid in the first quadrant.
Adventures in Aeronautics	RI	MA.4.M(N&O)-4-1	Demonstrates conceptual understanding of rational numbers with respect to: whole numbers from 0 to 999,999 through equivalency, composition, decomposition, or place value using models, explanations, or other representations; and positive fractional numbers (benchmark fractions: $\frac{a}{2}$ , $\frac{a}{3}$ , $\frac{a}{4}$ , $\frac{a}{5}$ , $\frac{a}{6}$ , $\frac{a}{8}$ , or $\frac{a}{10}$ , where $a$ is a whole number greater than 0 and less than or equal to the denominator) as a part to whole relationship in area, set, or linear models where the number of parts in the whole are equal to, and a multiple or factor of the denominator; and decimals as hundredths within the context of money, or tenths within the context of metric measurements (e.g., 2.3 cm) using models, explanations, or other representations.

**Adventures in Aeronautics**

**2006 Mathematics**

**Grade Level and Grade Span Expectations**

<b>Rhode Island Mathematics</b>			
<b>Grade 5</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Adventures in Aeronautics	RI	MA.5.M(N&O)-5-2	Demonstrates understanding of the relative magnitude of numbers by ordering, comparing, or identifying equivalent positive fractional numbers, decimals, or benchmark percents within number formats (fractions to fractions, decimals to decimals, or percents to percents); or integers in context using models or number lines.

Adventures in Aeronautics	RI	MA.5.M(G&M)-5-9	Demonstrates understanding of spatial relationships using location and position by interpreting and giving directions between locations on a map or coordinate grid (all four quadrants); plotting points in four quadrants in context (e.g., games, mapping, identifying the vertices of polygons as they are reflected, rotated, and translated); and determining horizontal and vertical distances between points on a coordinate grid in the first quadrant.
Adventures in Aeronautics	RI	MA.5.M(N&O)-5-1	Demonstrates conceptual understanding of rational numbers with respect to: whole numbers from 0 to 9,999,999 through equivalency, composition, decomposition, or place value using models, explanations, or other representations; and positive fractional numbers (proper, mixed number, and improper) (halves, fourths, eighths, thirds, sixths, twelfths, fifths, or powers of ten (10, 100, 1000)), decimals (to thousandths), or benchmark percents (10%, 25%, 50%, 75% or 100%) as a part to whole relationship in area, set, or linear models using models, explanations, or other representations.