

Adventures in Aeronautics			
2007 Mathematics			
Academic Standards			
Minnesota Mathematics			
Grade 3			
Activity/Lesson	State	Standards	
Adventures in Aeronautics	MN	MA.3.3.1.1.5	Compare and order whole numbers up to 100,000.
Adventures in Aeronautics	MN	MA.3.3.1.2.2	Use addition and subtraction to solve real-world and mathematical problems involving whole numbers. Use various strategies, including the relationship between addition and subtraction, the use of technology, and the context of the problem to assess the reasonableness of results.
Adventures in Aeronautics	MN	MA.3.3.1.2.4	Solve real-world and mathematical problems involving multiplication and division, including both "how many in each group" and "how many groups" division problems.
Adventures in Aeronautics	MN	MA.3.3.1.2.5	Use strategies and algorithms based on knowledge of place value, equality and properties of addition and multiplication to multiply a two- or three-digit number by a one-digit number. Strategies may include mental strategies, partial products, the standard algorithm, and the commutative, associative, and distributive properties.
Adventures in Aeronautics	MN	MA.3.3.2.1.1	Create, describe, and apply single-operation input-output rules involving addition, subtraction and multiplication to solve problems in various contexts.
Adventures in Aeronautics	MN	MA.3.3.3.2.1	Understand perimeter as a measurable attribute of real-world and mathematical objects. Use various tools to measure distances. Use half units when measuring distances.
Adventures in Aeronautics	MN	MA.3.3.3.2.3	Measure distances around objects.
Adventures in Aeronautics	MN	MA.3.3.3.3.1	Tell time to the minute, using digital and analog clocks. Determine elapsed time to the minute.
Adventures in Aeronautics	MN	MA.3.3.1.2.1	Add and subtract multi-digit numbers, using efficient and generalizable procedures based on knowledge of place value, including standard algorithms.
Adventures in Aeronautics			
2007 Mathematics			
Academic Standards			
Minnesota Mathematics			
Grade 4			
Activity/Lesson	State	Standards	
Adventures in Aeronautics	MN	MA.4.4.1.1.2	Use an understanding of place value to multiply a number by 10, 100 and 1000.

Adventures in Aeronautics	MN	MA.4.4.1.1.3	Multiply multi-digit numbers, using efficient and generalizable procedures, based on knowledge of place value, including standard algorithms.
Adventures in Aeronautics	MN	MA.4.4.1.1.4	Estimate products and quotients of multi-digit whole numbers by using rounding, benchmarks and place value to assess the reasonableness of results.
Adventures in Aeronautics	MN	MA.4.4.1.1.5	Solve multi-step real-world and mathematical problems requiring the use of addition, subtraction and multiplication of multi-digit whole numbers. Use various strategies, including the relationship between operations, the use of technology, and the context of the problem to assess the reasonableness of results.
Adventures in Aeronautics	MN	MA.4.4.1.2.2	Locate fractions on a number line. Use models to order and compare whole numbers and fractions, including mixed numbers and improper fractions.
Adventures in Aeronautics	MN	MA.4.4.1.2.5	Compare and order decimals and whole numbers using place value, a number line and models such as grids and base 10 blocks.
Adventures in Aeronautics	MN	MA.4.4.2.1.1	Create and use input-output rules involving addition, subtraction, multiplication and division to solve problems in various contexts. Record the inputs and outputs in a chart or table.
Adventures in Aeronautics	MN	MA.4.4.2.2.1	Understand how to interpret number sentences involving multiplication, division and unknowns. Use real-world situations involving multiplication or division to represent number sentences.
Adventures in Aeronautics	MN	MA.4.4.2.2.2	Use multiplication, division and unknowns to represent a given problem situation using a number sentence. Use number sense, properties of multiplication, and the relationship between multiplication and division to find values for the unknowns that make the number sentences true.
Adventures in Aeronautics			
2007 Mathematics			
Academic Standards			
Minnesota Mathematics			
Grade 5			
Activity/Lesson	State	Standards	
Adventures in Aeronautics	MN	MA.5.5.1.1.4	Solve real-world and mathematical problems requiring addition, subtraction, multiplication and division of multi-digit whole numbers. Use various strategies, including the inverse relationships between operations, the use of technology, and the context of the problem to assess the reasonableness of results.