

Adventures in Aeronautics			
2005 Mathematics			
Learning Standards			
District of Columbia Mathematics			
Grade 3			
Activity/Lesson	State	Standards	
Adventures in Aeronautics	DC	MA.3.NSO-N.2	Represent, compare, and order numbers to 10,000 using various forms, including expanded notation (e.g., $3,206 = 3 \times 1,000 + 2 \times 100 + 6$) and written out in words (e.g., three thousand two-hundred six).
Adventures in Aeronautics	DC	MA.3.NSO-C.10	Demonstrate an understanding of and the ability to use conventional algorithms for the addition and subtraction of up to five-digit whole numbers.
Adventures in Aeronautics	DC	MA.3.NSO-C.11	Add and subtract up to four-digit whole numbers accurately and efficiently.
Adventures in Aeronautics	DC	MA.3.NSO-C.17	Solve simple problems involving multiplication of multidigit whole numbers by one-digit numbers ($2,431 \times 2$).
Adventures in Aeronautics	DC	MA.3.PRA.3	Determine values of variables in simple equations involving addition, subtraction, or multiplication (e.g., $4106 - \text{"triangle"} = 37$, $5 = \text{"circle"} + 3$, and $\text{"square"} - \text{"circle"} = 3$).
Adventures in Aeronautics	DC	MA.3.M.1	Demonstrate an understanding of such attributes as length, area, and weight; select the appropriate type of unit for measuring each attribute using both the U.S. customary and metric systems.
Adventures in Aeronautics	DC	MA.3.M.3	Identify time to the nearest 5 minutes on analog and digital clocks using a.m. and p.m. Compute elapsed time using a clock (e.g., hours and minutes since ...) and using a calendar (e.g., days since ...).
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Grade 4			
Activity/Lesson	State	Standards	
Adventures in Aeronautics	DC	MA.4.NSO-N.1	Exhibit an understanding of the base 10 number system by reading, modeling, and writing whole numbers to at least 100,000; demonstrating an understanding of the values of the digits; and comparing and ordering the numbers.
Adventures in Aeronautics	DC	MA.4.NSO-N.2	Represent, compare, and order numbers to 100,000 using various forms, including expanded notation.

Adventures in Aeronautics	DC	MA.4.NSO-C.14	Demonstrate an understanding of and the ability to use conventional algorithms for the addition and subtraction of multidigit whole numbers.
Adventures in Aeronautics	DC	MA.4.NSO-C.15	Add and subtract up to five-digit numbers accurately and efficiently.
Adventures in Aeronautics	DC	MA.4.NSO-C.17	Select, use, and explain various meanings and models of multiplication and division of whole numbers. Understand and use the inverse relationship between the two operations.
Adventures in Aeronautics	DC	MA.4.NSO-C.19	Demonstrate understanding of and ability to use the conventional algorithms for multiplication of up to a three-digit whole number by a two-digit whole number. Multiply three-digit whole numbers by two-digit whole numbers accurately and efficiently.
Adventures in Aeronautics	DC	MA.4.NSO-C.25	Select and use appropriate operations (addition, subtraction, multiplication, and division) to solve problems, including those involving money.
Adventures in Aeronautics	DC	MA.4.NSO-C.27	Use the relationship between multiplication and division to simplify computations and check results.
Adventures in Aeronautics	DC	MA.4.NSO-E.28	Estimate and compute the sum or difference of whole numbers and positive decimals to two places.
Adventures in Aeronautics	DC	MA.4.NSO-E.29	Estimate the answers to calculations involving addition, subtraction, or multiplication; know when approximation or a rounded solution is appropriate and use it to check the reasonableness of answers.
Adventures in Aeronautics	DC	MA.4.PRA.1	Create, describe, extend, and explain geometric and numeric patterns, including multiplication patterns such as 3, 30, 300, and 3,000; generalize the rule for the pattern and make predictions when given a table of number pairs of a set of data.
Adventures in Aeronautics	DC	MA.4.M.1	Identify and use appropriate metric and U.S. customary units and tools (e.g., ruler, protractor, graduated cylinder, thermometer) to estimate, measure, and solve problems involving length, area, volume, weight, time, angle size, and temperature.
Adventures in Aeronautics	DC	MA.4.M.3	Identify time to the minute on analog and digital clocks using a.m. and p.m. Compute elapsed time using a clock (e.g., hours and minutes since ...) and using a calendar (e.g., days since ...).
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Grade 5			
Activity/Lesson	State	Standards	
Adventures in Aeronautics	DC	MA.5.NSO-N.2	Represent and compare very large (billions) and very small (thousandths) positive numbers in various forms, such as expanded notation without exponents, e.g., $9,724 = (9 \times 1,000) + (7 \times 100) + (2 \times 10) + 4$.
Adventures in Aeronautics	DC	MA.5.NSO-N.4	Compare and order integers (including negative integers) and positive fractions, mixed numbers, decimals, and percents.
Adventures in Aeronautics	DC	MA.5.NSO-C.15	Solve problems involving multiplication and division of any whole number.
Adventures in Aeronautics	DC	MA.5.NSO-C.22	Demonstrate an understanding of how parentheses affect expressions involving addition, subtraction, and multiplication, and use that understanding to solve problems — e.g., $3 \times (4 + 2) = 3 \times 6$.
Adventures in Aeronautics	DC	MA.5.NSO-E.23	Estimate sums and differences of whole numbers, positive fractions, and positive decimals. Estimate products of whole numbers and products of positive decimals with whole numbers. Use a variety of strategies and judge reasonableness of answers.