

Math Level 3

Skills

Analytical

Contextual

Estimation and Computation (5)

NL.03.EC.01	Add, subtract, multiply and divide negative whole numbers.			
NL.03.EC.02	Solves percent problems (e.g.. Percent*Total=Part, What percent "of" is "x") including percent problems greater than 100%.			
NL.03.EC.03	Write, solve, and estimate solutions to practical addition, subtraction, multiplication and division problems that use fractions, mixed numbers, decimals and percents.			
NL.03.EC.04	Demonstrate identity, commutative, associative, and distributive properties for addition and multiplication			
NL.03.EC.05	Solve ratio and proportion problems.			

Functions and Relationships (7)

NL.03.FR.01	Evaluate an expression, equation, or inequality by substituting values for a variable.			
NL.03.FR.02	Combine like terms to simplify expressions.			
NL.03.FR.03	Write, solve, and explain number sentences that contain multiple occurrences of a single variable.			
NL.03.FR.04	Translate and solve word problems using symbolic expressions, equations, or inequalities.			
NL.03.FR.05	Explain and analyze the patterns found in tables, graphs, rules and formulas (e.g. linear, nonlinear or geometric)			
NL.03.FR.06	Find the slope of a line given 2 points.			
NL.03.FR.07	Write the equation of a line in slope-intercept form.			

Geometry (7)

NL.03.GO.01	Identify angles and solve problems using parallel lines and transversals.			
NL.03.GO.02	Identify and describe congruent and similar figures.			
NL.03.GO.03	Construct a circle with a given diameter or radius.			
NL.03.GO.04	Calculate circumferences and areas of circles.			

NL.03.GO.05	Find the unknown dimensions of a right triangle using the Pythagorean Theorem			
NL.03.GO.06	Model, identify, draw, and describe common three-dimensional figures.			
NL.03.GO.07	Calculate the surface area and volume of a cube and rectangular prism.			
Measurement (4)				
NL.03.MS.01	Solve time problems using information about time zones, and elapsed time.			
NL.03.MS.02	Convert within the standard (inches, feet, and yards) and metric (mm, cm, m) system.			
NL.03.MS.03	Measure area, perimeter, surface area and volume using an appropriate tool in metric and in standard units. (Hands-on)			
NL.03.MS.04	Write and solve rate problems and use appropriate units for the solutions.			
Numeration (4)				
NL.03.NM.01	Convert between fractions, mixed numbers, decimals, and percents.			
NL.03.NM.02	Compare and order whole numbers, fractions, decimals, and integers using inequalities and equalities (models, pictures, symbols and words).			
NL.03.NM.03	Define and demonstrate use of prime and composite numbers.			
NL.03.NM.04	Identify and describe factors and multiples of a number set, including GCF and LCM.			
Problem Solving (4)				
NL.03.PS.01	Evaluate results for appropriateness.			
NL.03.PS.02	Verify accuracy of solutions by using alternative strategies to solve.			
NL.03.PS.03	Maintain a math notebook that expresses goals, successes, and areas for improvement and explains mathematical ideas, solutions, and methods.			
NL.03.PS.04	Apply and use calculations in science, humanities, careers or another personal interest.			
Statistics and Probability (4)				
NL.03.SP.01	Create tree diagrams and sample spaces to determine theoretical probabilities about independent events.			
NL.03.SP.02	Analyze data from tables, charts and graphs to predict an outcome and check for validity and misrepresentation.			
NL.03.SP.03	Collect and display data in circle graphs, histograms, and scatter plots with and without technology.			

NL.SP.03.04	Design and conduct a probability experiment and compare the theoretical to the experimental results and represent the data using percents, ratios, and/or fractions.			
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