



DIMENSIONU MATH CURRICULUM - ELEMENTARY GRADES

Level D	Level E	Level F	Level G
<p>Number and Operations</p> <ul style="list-style-type: none"> Place Value Compare Whole Numbers Equivalent Number Forms Fractions as Part/Whole Fractions as Part/Group Compare Fractions Equivalent Fractions Use Symbols to Compare Multiplication Division Multiply/Divide Properties of Addition Properties of Multiplication Multiplication Facts Division Facts Add/Subtract Whole Numbers Add Even/Odd Numbers Estimate in Problem Solving Estimate to Check Results <p>Algebra</p> <ul style="list-style-type: none"> Patterns/Number Sequences Properties of Operations Relationships as Equations <p>Geometry</p> <ul style="list-style-type: none"> Describe Figures Characteristics of Figures <p>Measurement</p> <ul style="list-style-type: none"> Use Units of Measure Convert Units 	<p>Number and Operations</p> <ul style="list-style-type: none"> Place Value Compare Numbers Decimals as Part/Whole Equivalent Number Forms Equivalent Fractions Apply Fractions Equivalent Decimals/Fractions Multiply/Divide Inverse Operations Problem-Solving Methods Properties of Multiplication Multiples of 10/100 Add/Subtract Numbers Multiply Even/Odd Numbers Multiply Divide Round Whole Numbers Estimate to Check Results Add/Subtract Fractions Add/Subtract Decimals <p>Algebra</p> <ul style="list-style-type: none"> Patterns Analyze Patterns/Functions Properties of Operations Equations/Inequalities <p>Geometry</p> <ul style="list-style-type: none"> Characteristics of Figures <p>Measurement</p> <ul style="list-style-type: none"> Identify Angles Use Units of Measure Standard Units Calculate Elapsed Time Convert Units Find Area 	<p>Number and Operations</p> <ul style="list-style-type: none"> Compare Numbers Equivalent Fractions Improper Fractions Find Factors Prime/Composite Numbers Multiply Divide Estimate to Check Results Estimate with Fractions Estimate with Decimals Find Common Factors/GCF Find Multiples/LCM Add/Subtract Fractions <p>Algebra</p> <ul style="list-style-type: none"> Describe Patterns Order of Operations Variables/Equations Translate to Algebra Substitute for Variables Solve Equations <p>Geometry</p> <ul style="list-style-type: none"> Interior Angles Classify Figures <p>Measurement</p> <ul style="list-style-type: none"> Convert Measurements Find Perimeter Find Surface Area/Volume <p>Data Analysis and Probability</p> <ul style="list-style-type: none"> Find the Mean Possible Outcomes Likelihood of an Event Predict Probability 	<p>Number and Operations</p> <ul style="list-style-type: none"> Fractions/Decimals/Percents Equiv. Rational Numbers Compare Numbers Cross Multiplication Find Percent/Rate Fractions/Unlike Denominators Mixed Numbers/Unlike Denominators Properties of Addition Properties of Multiplication Inverse Operations Estimate Percents Estimate to Check Results <p>Algebra</p> <ul style="list-style-type: none"> Analyze Patterns Use Variables in Expressions Translate to Algebra Solve Linear Eq. <p>Geometry</p> <ul style="list-style-type: none"> Classify Figures <p>Measurement</p> <ul style="list-style-type: none"> Measurement Systems Equiv. Customary Units Equiv. Metric Units Find Area/Volume Find Lengths w/Area/Volume Equiv. Ratios/Proportions Solve Proportions Find Rates <p>Data Analysis and Probability</p> <ul style="list-style-type: none"> Frequency Tables Mean/Median/Mode Find Possible Outcomes Find Probability



DIMENSIONU MATH CURRICULUM - SECONDARY GRADES

Level G	Level H	Level I	Level Algebra
<p>Number and Operations Fractions/Decimals/Percents Equiv. Rational Numbers Compare Numbers Cross Multiplication Find Percent/Rate Fractions/Unlike Denominators Mixed Numbers/Unlike Denominators Properties of Addition Properties of Multiplication Inverse Operations Estimate Percents Estimate to Check Results</p> <p>Algebra Analyze Patterns Use Variables in Expressions Translate to Algebra Solve Linear Eq.</p> <p>Geometry Classify Figures</p> <p>Measurement Measurement Systems Equiv. Customary Units Equiv. Metric Units Find Area/Volume Find Lengths w/Area/Volume Equiv. Ratios/Proportions Solve Proportions Find Rates</p> <p>Data Analysis and Probability Frequency Tables Mean/Median/Mode Find Possible Outcomes Find Probability</p>	<p>Number and Operations Rational/Irrational Numbers Solve Percent Problems Find Common Factors/GCF Find Multiples/LCM Find Prime Factorization Perfect Squares Rational Numbers Properties of Addition Properties of Multiplication Inverse Relationships Order of Operations</p> <p>Algebra Linear/Nonlinear Funct. Represent Funct. w/Eq. Add/Subtract Monomials Translate to Algebra Equivalent Alg. Expressions Solve Multi-Step Eq. Solve Inequalities Solve Eq./Inequalities</p> <p>Geometry Similar Figures</p> <p>Measurement Convert Capacities Convert Mass Convert Unit Prices/Money Diameter/Radius Find Surface Area Find Volume Scale Factors of Length Find Rates</p> <p>Data Analysis and Probability Find Range Estimate Using Samples</p>	<p>Number and Operations Percents <1% and >100% Exponents of Zero/Negative Values Square Roots</p> <p>Algebra Represent Funct. w/Eq. Translate to Inequalities Multiply/Divide Monomials Add/Subtract Polynomials Multiply Polynomials Divide Polynomials Solve Systems of Eq. Linear Eq./Funct./Slope Solve Multi-Step Inequalities</p> <p>Geometry Intercepts/Slope Find Eq. of a Line Distance Between Points Angles Formed by Transversal</p> <p>Measurement Convert Equivalent Measures Indirect Measurement</p> <p>Data Analysis and Probability Mean/Median/Range Quartiles</p>	<p>Number and Operations Equiv. Real Numbers Properties of Real Numbers Simplify Radical Terms</p> <p>Algebra Operations w/Radical Terms Solve Alg. Problems Factorials/Exponents/Absolute Values Combinations/Permutations Undefined Fractions Set-Builder/Interval Notation Complement of a Subset Intersection/Union Domain/Range of Relations Solve Relation/Funct. Problems Translate to Algebra Equiv. Eq./Inequalities Quadratic Eq. Exponential Growth/Decay Multiply/Divide Monomials Simplify Polynomial Fractions Difference of Perfect Squares</p> <p>Geometry Find Eq. w/Points Find Eq. w/Slope Identify Parallel Lines Find Slope w/Eq. Find Sine/Cosine/Tangent</p> <p>Measurement Find Area/Perimeter Find Volume/Surface Area Find Rates Convert Measurements Relative Errors of Measurement</p> <p>Data Analysis and Probability Identify Types of Data Measures of Central Tendency Correlation/Causation Conditional Probability Probability: Event/Complement Probability: Series of Events Probability: Two Events</p>