



6th Grade Correlation to Illinois Learning Standards

	Illinois Learning Standard	Lesson Number	Lesson Title
NUMBER SENSE			
6.A.3a.	Represent fractions, decimals, percentages, exponents and scientific notation in equivalent forms.	MM1-350	Identifying and Writing Scientific Notation
		MM1-358	Converting Fractions and Mixed Numbers Using Powers of Ten
		MM1-360	Expressing Percent as a Fraction
		MM1-365	Converting Decimals and Fractions
		MM1-370	Converting Decimals and Percents
		MM1-375	Converting Fractions and Percents
		MM1-380	Converting Fractions, Decimals, and Percents
6.B.3a.	Solve practical computation problems involving whole numbers, integers and rational numbers.	MM1-090	Identifying Prime and Composite Numbers
		MM1-095	Expressing a Number as a Product of Primes
		MM1-105	Identifying GCF and LCM
		MM1-130	Identifying the Least Common Denominator
6.B.3c.	Identify and apply properties of real numbers including pi, squares, and square roots.	MM1-565	Squares and Square Roots
		MM1-515	Finding the Circumference and Area of a Circle
6.C.3a.	Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions.	MM1-180	Dividing Fractions
		MM1-185	Dividing Mixed Numbers
		MM1-225	Solving Proportions
		MM1-300	Adding and Subtracting Decimals
		MM1-310	Multiplying Decimals
		MM1-320	Application with Decimal Numbers
		MM1-325	Dividing with Decimal Divisors
		MM1-330	Dividing with a Decimal Divisor and Dividend
		MM1-610	Finding Simple Interest
6.C.3b.	Show evidence that computational results using whole numbers, fractions, decimals, percents and proportions are correct and/or that estimates are reasonable.	MM1-030	Estimating Sums and Differences
		MM1-050	Identifying Special Patterns in Multiplication
		MM1-060	Estimating Products
		MM1-065	Solving Division in Three Forms
		MM1-070	Estimating Quotients
		MM1-305	Estimating Products by Rounding to the Nearest Whole Number
		MM1-320	Performing Decimals by Whole Number Divisors
		MM1-425	Classifying Information from a Mathematical Story
6.D.3a.	Apply ratios and proportions to solve practical problems.	MM1-205	Writing a Ratio to Compare Two Quantities
		MM1-210	Identifying and Writing Equal

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		MM1-220	Writing Proportions
		MM1-225	Solving Proportions
		MM1-470	Using Ratios to Identify Similar Figures
ESTIMATION AND MEASUREMENT			
7.A.3a.	Measure length, capacity, weight/mass and angles using sophisticated instruments (e.g., compass, protractor, trundle wheel).	MM1-460	Classifying and Measuring Angles
		MM1-535	Converting Customary Units of Measurement for Length
		MM1-540	Converting Customary Units of Measurement for Capacity and Weight
		MM1-545	Converting Metric Units of Measurement for Length
		MM1-550	Converting Metric Units of Measurement for Capacity and Weight
7.A.3b.	Apply the concepts and attributes of length, capacity, weight/mass, perimeter, area, volume, time, temperature and angle measures in practical situations.	MM1-460	Classifying and Measuring Angles
		MM1-505	Finding the Perimeter of a Polygon
		MM1-510	Finding the Area of Parallelograms and Triangles
		MM1-515	Finding the Circumference and Area of a Circle
		MM1-520	Finding the Surface Area of a Rectangular Prism
		MM1-525	Finding the Volume of Rectangular and Triangular Prisms
		MM1-530	Finding the Volume of a Cylinder
		MM1-555	Finding the Lapsed Time
		MM1-560	Identifying Time Zones
		MM1-635	Solving Distance, Rate, and Time Problems
7.B.3a.	Select and apply instruments including rulers and protractors and units of measure to the degree of accuracy required.	MM1-460	Classifying and Measuring Angles
		MPA-130	Developing a Sense of Relative Sizes of Measures
7.C.3a.	Construct a simple scale drawing for a given situation.	MPA-110	Solving Problems Using Proportions, Scale Drawings, Models and Maps
		MM1-475	Using Proportions to Solve for Unknown Lengths of Similar Triangles
7.C.3b.	Use concrete and graphic models and appropriate formulas to find perimeters, areas, surface areas and volumes of two- and three-dimensional regions.	MM1-505	Finding the Perimeter of a Polygon
		MM1-510	Finding the Area of Parallelograms and Triangles
		MM1-515	Finding the Circumference and Area of a Circle
		MM1-520	Finding the Surface Area of a Rectangular Prism
		MM1-525	Finding the Volume of Rectangular and Triangular Prisms
		MM1-530	Finding the Volume of a Cylinder
ALGEBRA AND ANALYTICAL METHODS			
8.A.3a.	Apply the basic properties of commutative, associative, distributive, transitive, inverse, identity, zero, equality and order of operations to solve problems.	MM1-025	Identifying the Properties of Addition
		MM1-045	Identifying and Using Properties of Multiplication to Solve Problems
		MM1-080	Order of Operations
		MM1-085	Order of Operations Including Parentheses and Exponents
		MM1-620	Using the Order of Operations in Algebraic Expressions
8.A.3b.	Solve problems using linear expressions, equations and inequalities.	MM1-080	Order of Operations
		MM1-085	Order of Operations Including Parentheses and Exponents
		MM1-620	Using the Order of Operations in Algebraic Expressions
		MM1-625	Solving Algebraic Equations Using Addition and Subtraction
		MM1-630	Solving Algebraic Equations Using Multiplication and Division
		MPA-109	Solving and Graphing Linear Inequalities on a Number Line
8.B.3a.	Use graphing technology and algebraic methods to analyze and predict linear relationships and make generalizations from linear patterns.	MM1-020	Identifying and Finding Number Patterns Using Whole Numbers
		MPA-103	Distinguishing Between Relations and Functions

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8.C.3a.	Apply the properties of numbers and operations including inverses in algebraic settings derived from economics, business and the sciences.	MPA-104	Recognizing Patterns
		MM1-025	Identifying the Properties of Addition
		MM1-040	Using the Inverse Operations of Addition and Subtraction to Solve Problems
8.D.3a.	Solve problems using numeric, graphic or symbolic representations of variables, expressions, equations and inequalities.	MM1-045	Identifying and Using Properties of Multiplication to Solve Problems
		MM1-088	Applying the Divisibility Rules
		MM1-620	Using the Order of Operations in Algebraic Expressions
		MM1-625	Solving Algebraic Equations Using Addition and Subtraction
		MPA-117	Model Integer Arithmetic Using Cups and Counters
8.D.3b.	Propose and solve problems using proportions, formulas and linear functions.	MPA-109	Solving and Graphing Linear Inequalities on a Number Line
		MM1-630	Solving Algebraic Equations Using Multiplication and Division
		MM1-220	Writing Proportions
		MM1-225	Solving Proportions
		MM1-635	Solving Distance, Rate, and Time Problems
		MPA-077	Solving Problems Using a Formula
		MPA-080	Solving Proportions
		MPA-126	Solving Real-World Problems Involving Sales Tax
		MPA-127	Solving Real-World Problems Involving Discounts
		MPA-128	Solving Real-World Problems Involving Simple Interest
8.D.3c.	Apply properties of powers, perfect squares and square roots.	MM1-565	Squares and Square Roots
		MPA-013	Using Powers and Exponents in Expressions
		MPA-064	Finding Square Roots of Perfect Squares
		MPA-065	Estimating Square Roots
GEOMETRY			
9.A.3a.	Draw or construct two- and three- dimensional geometric figures including prisms, pyramids, cylinders and cones.	MM1-465	Naming and Classifying Polygons by Characteristics
		MPA-107	Constructing Three-Dimensional Figures and Examining Their Dimensions
9.A.3b.	Draw transformation images of figures, with and without the use of technology.	MM1-500	Using Translations, Rotations and Reflections to Transform Shapes
		MPA-060	Determining Which Figures Tessellate
		MPA-108	Graphing Translations and Reflections on the Coordinate Plane
		MPA-120	Applying Dilations in the Coordinate Plane
9.A.3c.	Use concepts of symmetry, congruency, similarity, scale, perspective, and angles to describe and analyze two- and three-dimensional shapes found in practical applications (e.g., geodesic domes, A-frame houses, basketball courts, inclined planes, art forms, blueprints).	MM1-470	Using Ratios to Identify Similar Figures
		MM1-475	Using Proportions to Solve for Unknown Lengths of Similar Triangles
		MM1-480	Identifying Triangles According to Their Sides and Angles
		MPA-056	Classifying Angles
		MPA-057	Identifying and Applying Supplementary and Complementary Angles
		MPA-058	Identifying Polygons
		MPA-059	Classifying Triangles and Quadrilaterals
		MPA-121	Comparing Similar and Congruent Polygons
9.B.3a.	Identify, describe, classify and compare two- and three- dimensional geometric figures and models according to their properties.	MM1-460	Classifying and Measuring Angles
		MM1-465	Naming and Classifying Polygons
		MPA-056	Classifying Angles
		MPA-058	Identifying Polygons
		MPA-059	Classifying Triangles and Quadrilaterals
		MPA-072	Identifying 3-D Figures
		MPA-107	Constructing Three-Dimensional Figures and Examining Their Dimensions

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9.C.3a.	Construct, develop and communicate logical arguments (informal proofs) about geometric figures and patterns.	MM1-020	Identifying and Finding Number Patterns Using Whole Numbers
		MPA-104	Recognizing Patterns
		MPA-007	Solving Problems Using Logical Reasoning Skills
9.C.3b.	Develop and solve problems using geometric relationships and models, with and without the use of technology.	MM1-470	Using Ratios to Identify Similar Figures
		MM1-475	Using Proportions to Solve for Unknown Lengths of Similar Triangles
		MM1-480	Identifying Triangles According to Their Sides and Angles
		MPA-057	Identifying and Applying Supplementary and Complementary Angles
		MPA-111	Comparing Perimeters, Areas and Volumes of Similar Geometric Figures and Solids
DATA ANALYSIS AND PROBABILITY			
10.A.3a.	Construct, read and interpret tables, graphs (including circle graphs) and charts to organize and represent data.	MM1-390	Understanding Data in Bar and Line Graphs, Stem-and-Leaf Plots
		MM1-395	Analyzing Data in Line Graphs, Bar Graphs, Stem-and-Leaf Plots
		MM1-400	Double Bar Graphs
		MM1-405	Circle Graphs
		MM1-410	Box-and-Whisker Plots
		MM1-430	Using Graphs to Solve Story Problems
		MM1-435	Using Pictographs, Bar Graphs and Line Graphs to Solve Problems
		MM1-445	Interpreting and Making Predictions from Graphs
10.A.3b.	Compare the mean, median, mode and range, with and without the use of technology.	MM1-415	Calculating the Range and Mean of a Data Set
		MM1-420	Calculating the Median and Mode of a Data Set
10.A.3c.	Test the reasonableness of an argument based on data and communicate their findings.	MPA-099	Recognizing Misleading Statistics and Graphs
		MM1-445	Interpreting and Making Predictions from Predictions from Graphs
10.B.3a.	Formulate questions (e.g., relationships between car age and mileage, average incomes and years of schooling), devise and conduct experiments or simulations, gather data, draw conclusions and communicate results to an audience using traditional methods and contemporary technologies.	MM1-385	Data Collection
		MM1-425	Classifying Information from a Mathematical Story
		MM1-445	Interpreting and Making Predictions from Predictions from Graphs
10.C.3a.	Determine the probability and odds of events using fundamental counting principles.	MM1-230	Finding the Probability of Simple Events
		MPA-090	Finding the Probability of Simple Real-Life Events
		MPA-113	Finding the Probability of Compound Events Through Experimentation
		MPA-114	Finding the Odds of Events and Experimental Probability from a Math Model
		MM1-235	Finding Experimental Probability
10.C.3b.	Analyze problem situations (e.g., board games, grading scales) and make predictions about results.	MM1-445	Interpreting and Making Predictions from Predictions from Graphs
		MPA-098	Making Predictions for Graphs and Choosing the Best Graph

MM1-Fundamentals of Mathematics

MPA- Pre-Algebra

HA1-Algebra 1

Note: Standards were taken from the Illinois Learning Standards - Goals 6 - 10 Middle/Junior High School document adopted by the Illinois State Board of Education in 1997.