MIDDLE SCHOOL GR 6-8 Math

D51 Math Scope and Sequence

Updated Dec 2025

✅ = Common assessment commitment (other assessment options are at LC discretion)

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Semester 1

Unit 1: Number System & Operation				Unit 2: Ratio and Rate Reasoning			Unit 3: Expressions, Equations, & Inequalities		
Module 1: *Integer Concepts*	**Module 2:** *Rational Number Concepts*	**Module 3:** *Fraction Division*	***Module 4:*** *Fluency with Multi-Digit Decimal Operations*	**Module 5:** *Ratios & Rates*	**Module 6:** *Apply Ratios & Rates to Measurements*	***Module 7*** *Understand & Apply Percent*	**Module 8:** *Numerical & Algebraic Expressions*	**Module 9:** *Solve Problems Using Equations & Inequalities*	***Module 10:*** *Real - World Relationships Between Variables*
Standards Targeted for Mastery **6.NS.C.7 :**Ordering and absolute value of rational numbers **6.NS.A.1:** Interpret and compute division of fractions **6.NS.B.3:** Operations with decimals **6.NS.B.4** : Distributive Property				**Standards Targeted for Mastery** **6.RP.A.3** Ratios and unit rates Proficiency Scale **6.RP.A.3:** Percentages			**Standards Targeted for Mastery** **6.EE.A.2 -** Write, read evaluate expressions **6.EE.A.3 -** Generate equivalent expressions **6.EE.B.7-** Solve real world problems by writing and solving equations **6.EE.B.8** Write inequalities and represent solutions on a number line **6.EE.C.9 -** Dependent and independent variables		
✅ Module 1 Assessment ✅ Module 2 Assessment ✅ Module 3 Assessment ✅ Module 4 Assessment				✅ Module 5 Assessment ✅ Module 6 Assessment ✅ Module 7 Assessment			✅ Module 8 Assessment ✅ Module 9 Assessment ✅ Module 10 Assessment		
✅ Fall Interim Assessment *(Sept. 22 - Oct. 8)*				6th Grade Standards Placemat 6th Grade Coherence Map and Major Work of the Grade			✅ Spring Interim Assessment *(Feb. 23 - March 11)*		

Semester 2

Unit 4: Relationships in Geometry			Unit 5: Data Collection & Analysis		
Module 11: *Polygons on the Coordinate Plane*	**Module 12:** Area of Triangles and Special Quadrilaterals	**Module 13:** Surface Area and Volume	**Module 14:** *Data Collection & Displays*	**Module 15:** *Measures of Center*	***Module 16:*** *Variability & Data Distribution*
Standards Targeted for Mastery **6.NS.C.8 -** Coordinate plane **6.G.A.1 -** Area of triangles and quadrilaterals **6.G.A.2 -** Volume **6.G.A.3 -** Polygons in the coordinate plane **6.G.A.4 -** Surface area			**Standards Targeted for Mastery** **6.SP.B.5 -** Summarize numerical data sets		
✅ Module 11 Assessment ✅ Module 12 Assessment ✅ Module 13 Assessment			✅ Module 14 Assessment ✅ Module 15 Assessment ✅ Module 16 Assessment		
Stage 3 Resources (Prioritized Lesson Scope and Sequence) **Stage 3 Intervention Resources (Math Plus Group)**					

Advanced 1

Semester 1

Unit 1: Number System & Operation	Unit 2: Expressions, Equations, and Inequalities
Standards Targeted for Mastery **6.NS.A.1:** Interpret and compute division of fractions **6.NS.B.4** : Distributive Property **6.NS.C.7** :Ordering and absolute value of rational numbers **7.NS.A.1:** Addition and subtraction of rational numbers **7.NS.A.2:** Multiplication and Division of Rational Numbers **7.NS.A.3:** Operations and applications with rational numbers	**Standards Targeted for Mastery** **6.EE.A.2 -** Write, read evaluate expressions **6.EE.A.3 -** Generate equivalent expressions **6.EE.B.7-** Solve real world problems by writing and solving equations **6.EE.B.8** Write inequalities and represent solutions on a number line **6.EE.C.9 -** Dependent and independent variables **7.EE.A.1**: Expressions with rational coefficients **7.EE.A2:** Equivalent expressions
✅ Module 1 Assessment ✅ Module 2 Assessment ✅ Module 3 Assessment ✅ Module 4 Assessment ✅ Module 5 Assessment	✅ Module 6 Assessment ✅ Module 7 Assessment ✅ Module 8 Assessment
✅ Fall Interim Assessment *(Sept. 22 - Oct. 8)*	
Advanced 1 Standards Placement	

Semester 2

Unit 3: Ratios and Proportional Reasoning	Unit 4: Relationships in Geometry	Unit 5: Data Collection & Analysis
Standards Targeted for Mastery **6.RP.A.3** Ratios and unit rates **6.RP.A.3:** Percentages **7.RP.A.1:** Unit rates **7.RP.A.2:** Proportional relationships **7.RP.A.3:** Solve problems involving ratio and percents	**Standards Targeted for Mastery** **6.NS.C.8 -** Coordinate plane **6.G.A.1 -** Area of triangles and quadrilaterals **6.G.A.2 -** Volume **6.G.A.3 -** Polygons in the coordinate plane **6.G.A.4 -** Surface area	**Standards Targeted for Mastery** **6.SP.B.5 -** Summarize numerical data sets
✅ Module 9 Assessment ✅ Module 10 Assessment ✅ Module 11 Assessment ✅ Module 12 Assessment ✅ Module 13 Assessment	✅ Module 14 Assessment ✅ Module 15 Assessment ✅ Module 16 Assessment	✅ Module 17 Assessment ✅ Module 18 Assessment
✅ Spring Interim Assessment *(Sept. 22 - Oct. 8)*	**Stage 3 Resources (Prioritized Lesson Scope and Sequence)**	

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Semester 1

Unit 1: Proportional Relationships		Unit 2: Rational Numbers			
Module 1: *Identify & Represent Proportional Relationships*	**Module 2:** *Proportional Reasoning with Percents*	**Module 3:** *Understand Addition & Subtraction of Rational Numbers*	**Module 4:** *Add & Subtract Rational Numbers*	**Module 5:** *Multiply & Divide Rational Numbers*	**Module 6:** *Solve Multi-Step Problems Using Rational Numbers*
Standards Targeted for Mastery **7.RP.A.1:** Unit rates **7.RP.A.2:** Proportional relationships **7.RP.A.3:** Solve problems involving ratio and percents		**Standards Targeted for Mastery** **7.NS.A.1:** Addition and subtraction of rational numbers **7.NS.A.2:** Multiplication and Division of Rational Numbers **7.NS.A.3:** Operations and applications with rational numbers **7.EE.B.3:** Solve problems with positive and negative rational numbers			
✅ Module 1 Assessment ✅ Module 2 Assessment		✅ Module 3 Assessment ✅ Module 4 Assessment ✅ Module 5 Assessment ✅ Module 6 Assessment			
✅ Fall Interim Assessment *(Sept. 22 - Oct. 8)*		7th Grade Standards Placemat 7th Grade Coherence Map Major Work of the Grade			

Semester 2

Unit 3: Model with Expressions, Equations, & Inequalities		Unit 4: Geometry			Unit 5: Sampling and Data Analysis		Unit 6: Probability	
Module 7: *Solve Problems Expressions & Equations*	**Module 8:** *Solve Problems Using Inequalities*	**Module 9:** *Draw & Analyze 2D Figures*	**Module 10:** *Analyze Figures*	**Module 11:** *Analyze Surface Area and Volume*	**Module 12:** *Proportional Reasoning with Samples*	**Module 13:** *Use Statistics & Graphs to Compare Data*	**Module 14:** *Understand & Apply Experimental Probability*	**Module 15:** *Understand & Apply Theoretical Probability*
Standards Targeted for Mastery **7.EE.A.1:** Expressions with rational coefficients **7.EE.A2:** Equivalent expressions **7.EE.B.4:** Using equations and inequalities to solve problems		**Standards Targeted for Mastery** **7.G.B.4:** Area and circumference of circles **7.G.B.6:** Area, volume, and surface area **7.EE.B.3:** Solve problems with positive and negative rational numbers			**Standards Targeted for Mastery** **7.SP.A.1:** Understand statistics can be used to gain information **7.SP.A.2:** Use random samples to make inferences **7.SP.B.4:** Draw informal comparative inferences about two populations		**Standards Targeted for Mastery** **7.SP.C.7:** Build and test probability models **7.SP.C.8:** Probability of compound events	
✅ Module 7 Assessment ✅ Module 8 Assessment		✅ Module 9 Assessment ✅ Module 10 Assessment ✅ Module 11 Assessment			✅ Module 12 Assessment ✅ Module 13 Assessment		✅ Module 14 Assessment ✅ Module 15 Assessment	
✅ Spring Interim Assessment *(Feb. 23 - March 11)*		**Stage 3 Resources (Prioritized Lesson Scope and Sequence)** **Stage 3 Intervention Resources (Math Plus Group)**						

Advanced 2

Semester 1

Unit 1: Transform and Construct Geometric Figures	Unit 2: Equations and Inequalities in One Variable	Unit 3: Similarity, Slope, and Linear Functions
Standards Targeted for Mastery **8.G.A.3:** Transformations : effect of dilations, translations, rotations, and reflections **8.G.A.4:** Transformations and Similarity	**Standards Targeted for Mastery** **8.EE.C.7:** Solve linear equations **7.EE.B.4:** Using equations and inequalities to solve problems	**Standards Targeted for Mastery** **8.EE.B.6:** Use similar triangles to explain slope **8.EE.C.8:** Analyze and solve pairs of linear equations **8.F.B.4:** Construct a function to model a linear relationship **8.F.B.5:** Describe the functional relationship between two quantities **8.G.A.5:** Angle relationships
✅ Module 1 Assessment ✅ Module 2 Assessment ✅ Module 3 Assessment	✅ Module 4 Assessment ✅ Module 5 Assessment	✅ Module 6 Assessment ✅ Module 7 Assessment ✅ Module 8 Assessment ✅ Module 9 Assessment
✅ Fall Interim Assessment *(Sept. 22 - Oct. 8)*		

Semester 2

Unit 4: Data Analysis and Sampling	Unit 5: Applications of Real Numbers and Exponents	Unit 6: Area and Volume	Unit 7: Probability
Standards Targeted for Mastery **8.SP.A.3:** Use the equation of a linear model to solve problems in the context of data **8.SP.A.4:** Summarize and interpret two-way tables **7.SP.A.1:** Understand statistics can be used to gain information **7.SP.A.2:** Use random samples to make inferences **7.SP.B.4:** Draw informal comparative inferences about two populations	**Standards Targeted for Mastery** **8.NS.A.2:** Approximate and compare irrational numbers **8.G.B.6:** Explain a proof of the Pythagorean Theorem **8.G.B.7:** Apply the Pythagorean Theorem **8.EE.A3:** Use scientific notation to estimate and compare **8.EE.A.4:** Solve problems involving scientific notation	**Standards Targeted for Mastery** **7.G.B.4:** Area and circumference of circles **7.G.B.6:** Area, volume, and surface area	**Standards Targeted for Mastery** **7.SP.C.7:** Build and test probability models **7.SP.C.8:** Probability of compound events
✅ Module 10 Assessment ✅ Module 11 Assessment ✅ Module 12 Assessment ✅ Module 13 Assessment	✅ Module 14 Assessment ✅ Module 15 Assessment ✅ Module 16 Assessment	✅ Module 17 Assessment ✅ Module 18 Assessment	✅ Module 19 Assessment ✅ Module 20 Assessment
✅ Spring Interim Assessment *(Feb. 23 - March 11)*	**Stage 3 Resources (Prioritized Lesson Scope and Sequence)** Advanced 2 Standards Placement		

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Semester 1							Semester 2					
Unit 1: Transformational Geometry		**Unit 2: Linear Equations & Applications**		**Unit 3: Relationships & Functions**			**Unit 4: Statistics & Probability**		**Unit 5: Real Numbers & Pythagorean Theorem**		**Unit 6: Exponents, Scientific Notation, and Volume**	
Module 1: Transformations and Congruence	**Module 2:** Transformations and Similarity	**Module 3:** *Linear Equations*	**Module 4:** *Angle Relationships*	**Module 5:** *Proportional Relationships*	**Module 6:** *Understand & Analyze Functions*	**Module 7:** *Systems of Linear Equations*	**Module 8:** *Scatter Plots*	**Module 9:** *Two-Way Tables*	**Module 10:** *Real Numbers*	**Module 11:** *The Pythagorean Theorem*	**Module 12:** *Exponents & Scientific Notation*	**Module 13:** *Volume*
Standards Targeted for Mastery **8.G.A.3:** Transformations: effect of dilations, translations, rotations, and reflections **8.G.A.4:** Transformations and Similarity		**Standards Targeted for Mastery** **8.EE.C.7:** Solve linear equations **8.G.A.5:** Angle relationships		**Standards Targeted for Mastery** 8.EE.B.5: Graph proportional relationships 8.EE.B.6: Use similar triangles to explain slope 8.EE.C.8: Analyze and solve pairs of linear equations 8.F.A.2: Compare properties of functions **8.F.B.4:** Construct a function to model a linear relationship **8.F.B.5:** Describe the functional relationship between two quantities			**Standards Targeted for Mastery** **8.SP.A.3:** Use the equation of a linear model to solve problems in the context of data **8.SP.A.4:** Summarize and interpret two-way tables		**Standards Targeted for Mastery** **8.NS.A.2:** Approximate and compare irrational numbers **8.G.B.6:** Explain a proof of the Pythagorean Theorem **8.G.B.7:** Apply the Pythagorean Theorem		**Standards Targeted for Mastery** **8.EE.A.1:** Know and apply properties of exponents **8.EE.A3:** Use scientific notation to estimate and compare **8.EE.A.4:** Solve problems involving scientific notation **8.G.C.9:** Volume of cones, cylinders, and spheres	
✅ Module 1 Assessment ✅ Module 2 Assessment		✅ Module 3 Assessment ✅ Module 4 Assessment		✅ Module 5 Assessment ✅ Module 6 Assessment ✅ Module 7 Assessment			✅ Module 8 Assessment ✅ Module 9 Assessment		✅ Module 10 Assessment ✅ Module 11 Assessment		✅ Module 12 Assessment ✅ Module 13 Assessment	
✅ Fall Interim Assessment *(Sept. 22 - Oct. 8)*		**8th Grade Standards Placemat** **8th Grade Coherence Map** **Major Work of the Grade**		✅ Spring Interim Assessment *(Feb. 23 - March 11)*			**Stage 3 Resources (Prioritized Lesson Scope and Sequence)**					

Algebra 1

Semester 1				Semester 2			
Topic 1: Solving Equations and Inequalities Extend understanding of writing and solving equations and inequalities to include equations and inequalities that require multiple steps to solve, as well as those that have variables on both sides of the equation or inequality.	**Topic 2: Linear Equations** Analyze descriptions of lines and write their linear in different forms from real-world and mathematical contexts.	**Topic 3: Linear Functions** Explore different methods to write and graph and apply analytic methods to tabular and graphic data sets that have linear relationships.	**Topic 4: Systems of Equations** Explore and use varying methods to solve systems of linear equations and inequalities and identify when each solution method is most useful.	**Topic 6: Exponentials and Exponential Functions** Identify, write, graph, and transform exponential functions and use exponential functions to model real-world situations and make predictions.	**Topic 7: Polynomials and Factoring** Identify the parts and factors of polynomials, factor trinomials, and add, subtract, and multiply polynomials.	**Topic 8: Quadratic Functions** Extend students' previous understanding of functions to include quadratic functions: graphing, modeling real-world situations, and comparing them to linear and exponential functions.	**Topic 11 : Statistics** Understand measures of center and spread including how standard deviation can be used to compare a specific value to other values. Understand how to find joint, marginal and relative frequencies. Explore methods to interpret data displays and create.
✅ Fall Interim Assessment *(Sept. 22 - Oct. 8)*			✅ Spring Interim Assessment *(Feb. 23 - March 11)*				