KINDERGARTEN – 8TH GRADE



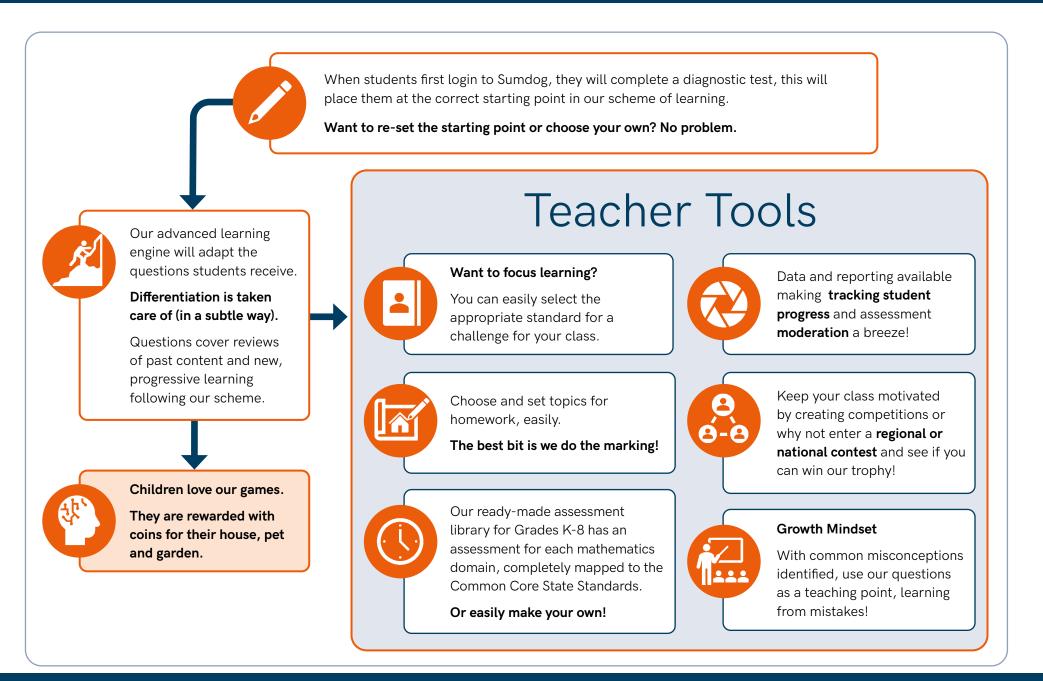
Mathematics program of study: Minnesota Standards for Mathematics

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Kindergarten

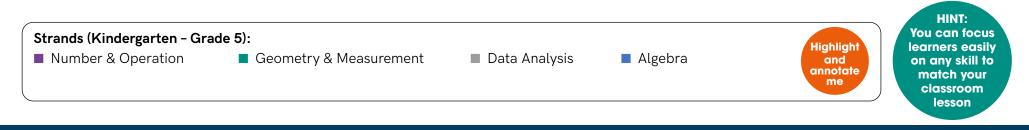


Describe Position K.1.1.1_1	Tens and Ones K.1.1.3_7	Add with 3 K.1.2.1_3	Subtract from 11 K.1.2.1_11
Numbers in Words K.1.1.2_1	Count Down by 1 K.1.1.4_1 	Add with 4 K.1.2.1_4	Subtract from 12 K.1.2.1_12
Count Down by 1 K.1.1.3_1	Count Up by 1 K.1.1.4_2	Add with 5 K.1.2.1_5	Subtract from 3, 4, 5, or 6 K.1.2.1_13
Count Up by 1 K.1.1.3_2	Count Up or Down by 1 K.1.1.4_3		Subtract from 7, 8, or 9 K.1.2.1_14
Count Up or Down by 1 K.1.1.3_3	Compare Numbers K.1.1.5_1	Add with 8 or 9 K.1.2.1_7	2D and 3D Shapes K.3.1.1_1
Count within 25 K.1.1.3_4	Order Numbers K.1.1.5_2	Count with Doubles K.1.2.1_8	Halving Length K.3.2.1_1
Count within 5 K.1.1.3_5	Add with 1 K.1.2.1_1	Make 10 K.1.2.1_9	
Ten Less K.1.1.3_6	Add with 2 K.1.2.1_2	Subtract from 10 K.1.2.1_10	





Forms of Numbers 1.1.1.1_1	Tally Charts 1.1.1.7_3	Count in Fives 1.1.2.3_1	True or False Equations 1.2.2.2_2
Count in 1s 1.1.1.3_1	Addition & Subtraction Word Problems	Count in Tens 1.1.2.3_2	Add within 20 1.2.2.3_1
Ten More / Ten Less 1.1.1.4_1	1.1.2.1_1Part-Part-Whole	. Count in Twos 1.1.2.3_3	Subtract Doubles 1.2.2.3_2
Compare Numbers 1.1.1.5_1	1.1.2.1_2 ■ Subtract From 13 or 14	. Ten More 1.1.2.3_4	Measure Length 1.3.2.1_1
Order Numbers 1.1.1.5_2	1.1.2.1_3 Subtract from 15, 16, 17, or 18	. Patterns 1.2.1.1_1	Time to 15-Minute Accuracy 1.3.2.2_1
Dot Plots 1.1.1.7_1	1.1.2.1_4 ■ Take Away	Add Three Numbers	Time to the Half Hour 1.3.2.2_2
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1.1.1.7_2	 Forms of Numbers 1.1.2.2_1 	1.2.2.2_1	■ 1.3.2.3_1





Add 10s within 1000 2.1.1.1_1
Add 2-Digit Numbers 2.1.1.1_2
Add and Subtract with Unknowns
2.1.1.1_3
Add or Subtract 100s within 1,000
2.1.1.1_4
Add to 3-Digit Numbers
2.1.1.1_5
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2.1.1.1_6
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2.1.1.1_7
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Subtract 10s within 1,000
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Subtract Multiples of 10 2.1.2.4_9		Subtract within 20 2.1.2.5_9
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Subtract with Multiples of 10 2.1.2.4_11		Pictograph 2.1.2.6_2
Add 1-Digit Numbers within 100 2.1.2.5_1)	





Picture Graphs 2.1.2.6_3	Count in 5s, 50s, 100s, or 2.2.1.1_3	1,000s	Classify 3D Shapes 2.3.1.1_2	Time to 5 Minutes 2.3.3.1_3
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Arrays 2.2.1.1_2	Classify 2D Shapes 2.3.1.1_1		Time to 15 Minutes 2.3.3.1_2	-



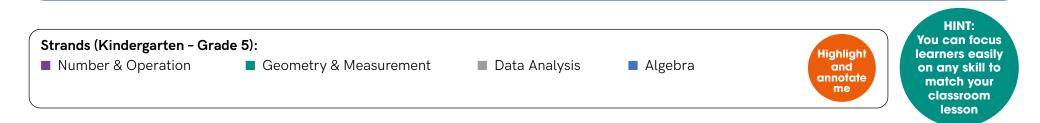


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3.1.2.1_7 Column Addition 3.1.2.1_8 Column Subtraction 3.1.2.1_9 Multi-Step Addition & Subtraction 3.1.2.1_10 Subtract 10s, 100s, 1,000s, & 10,000s 3.1.2.1_11 Subtract 1s within 1,000 3.1.2.1_12 Subtract Multiples of 10 & 100		
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3.1.2.1_9 Multi-Step Addition & Subtraction 3.1.2.1_10 Subtract 10s, 100s, 1,000s, & 10,000s 3.1.2.1_11 Subtract 1s within 1,000 3.1.2.1_12 Subtract Multiples of 10 & 100		
3.1.2.1_10 Subtract 10s, 100s, 1,000s, & 10,000s 3.1.2.1_11 Subtract 1s within 1,000 3.1.2.1_12 Subtract Multiples of 10 & 100		
10,000s 3.1.2.1_11 Subtract 1s within 1,000 3.1.2.1_12 Subtract Multiples of 10 & 100		on
3.1.2.1_12 Subtract Multiples of 10 & 100	10,000s	
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Dividing by 10 or 100 3.1.2.4_2		3.1.2.4_12 Multiply wit
Division Facts 11-20 3.1.2.4_3		3.1.2.4_13 Multiply wit
Division Facts 21-30 3.1.2.4_4		3.1.2.4_14

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Multiply with 2 up to 5 3.1.2.4_15	∎ 3
Multiply with 2, 6 to 10 3.1.2.4_16	F 3
Multiply with 5 up to 5 3.1.2.4_17	⊤ ∎ 3
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Multiply with 3 3.2.2.2_10	3.3.2.2_1

 Strands (Kindergarten - Grade 5):

 Number & Operation

 Geometry & Measurement

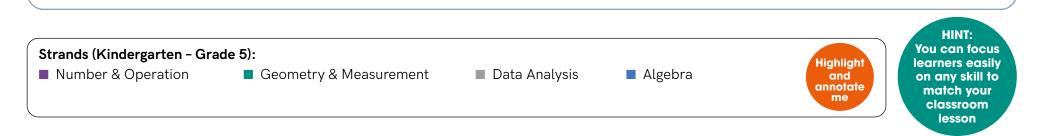
 Data Analysis

 Algebra

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Perimeter of Composite Rectilinear Shapes	Elapsed Time 3.3.3.1_1	Time Durations 3.3.3.2_1	Line Graphs 3.4.1.1_1	
3.3.2.2_2	Read Schedules	Time on a Clock	 Picture Graphs, Bar Graphs, &	
Perimeter of Polygons	3.3.3.1_2	3.3.3.2_2	Line Plots	
3.3.2.2_3	Time on a Clock	Units of Time	3.4.1.1_2	
Add to Find Perimeter	3.3.3.1_3	3.3.3.2_3	Tables	
3.3.2.3_1	Time Tables 3.3.3.1_4	Subtract with Money 3.3.3.3_1	3.4.1.1_3	





Division Tables 4.1.1.1_1	
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Multiply by Powers of 10 4.1.1.3_1	

Multiply with 2-Digit Numbers 4.1.1.3_2	
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Estimate Products & Quotients 4.1.1.4_1	
Divide by 1-Digit Numbers 4.1.1.6_1	
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Express Decimals 4.1.2.4_1	Area 4.3.2.4_1
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Order Decimals 4.1.2.5_2	Transformations 4.3.3.1_1
Express Decimals 4.1.2.6_1	Transformations 4.3.3.2_1
Round Decimals 4.1.2.7_1	Angles 4.3.3.3_1
Number Patterns 4.2.1.1_1	Transformations 4.3.3.3_2
Dot Plots	2 Times table (fluent)
4.2.2.2_1	3 Times table (fluent)
Two-Step Questions 4.2.2.2_2	4 Times table (fluent)
	5 Times table (fluent)
Angles 4.3.1.1_1	10 Times table (fluent)

Strands (Kindergarten - Grade 5):

Number & Operation

Geometry & Measurement

Data Analysis

Algebra

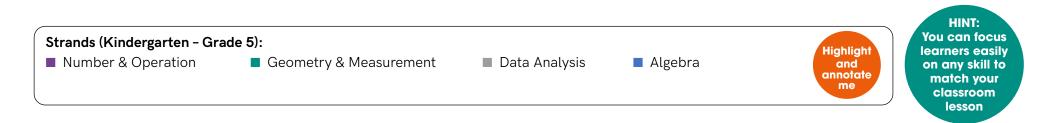
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Numerical Patterns 5.1.1.1_1	Add & Sub [.] 5.1.3.1_2
2-Digit by 2-Digit Multiplication 5.1.1.4_1	Add & Sub [.] 5.1.3.1_3
Divide by 10 or 100 5.1.1.4_2	Add & Sub [.] 5.1.3.4_1
Numerical Patterns 5.1.1.4_3	Addition ar Problems v
Word Problems with Division 5.1.1.4_4	Decimals 5.1.3.4_2
Compare and Order Fractions 5.1.2.3_1	Numerical 5.2.1.1_1
Convert Between Fractions and Decimals	The Coord 5.2.1.2_1
5.1.2.4_1	Expression 5.2.2.1_1
Equivalent Fractions 5.1.2.4_2	Properties
Round Decimals 5.1.2.5_3 Add and Subtract Decimal Tenths	5.2.2.1_2 Word Prob 5.2.2.1_3
5.1.3.1_1	Comparisc 5.2.3.2_1

Add & Subtract Decimals 5.1.3.1_2	
Add & Subtract Fractions 5.1.3.1_3	
Add & Subtract Fractions 5.1.3.4_1	
Addition and Subtraction Word Problems with Fractions and Decimals 5.1.3.4_2	
Numerical Patterns 5.2.1.1_1	
The Coordinate Grid 5.2.1.2_1	
Expressions & Equations 5.2.2.1_1	
Properties 5.2.2.1_2	
Word Problems with Division 5.2.2.1_3	
Comparison Word Problems 5.2.3.2_1	

Write Expressions 5.2.3.2_2	Volume in Cube Units 5.3.2.3_1		
Substitute & Evaluate with Expressions	Volume in Cube Units 5.3.2.4_1		
5.2.3.3_1 Recognize Nets	Volume with Customary Units 5.3.2.4_2		
5.3.1.1_1 Identify Nets that Make a Figure	Volume with Metric Units 5.3.2.4_3		
5.3.1.2_1	Measures of Spread and Centre		
Recognize Nets	5.4.1.1_1		
5.3.1.2_2 Area of Figures 5.3.2.1_1	Double Line Graphs 5.4.1.2_1		
Perimeter & Area Problems	Dual Bar Graphs 5.4.1.2_2		
5.3.2.1_2	6 Times table (fluent)		
Surface Area 5.3.2.2_1	7 Times table (fluent)		
Volume in Cube Units	8 Times table (fluent)		
5.3.2.2_2	9 Times table (fluent)		
Volume with Customary Units	11 Times table (fluent)		
5.3.2.2_3	12 Times table (fluent)		





Numerical expressions involving whole-numbers 6.EE.A.1	Write an inequality of the form to represent a constraint or condition 6.EE.B.8	Part 2 – Represent three- dimensional figures using nets made up of rectangles and triangles	Recognize opposite signs of numbers as indicating locations on the number line 6.NS.C.6.a
6.EE.A.2.b	Use variables to represent two	6.G.A.4	Understand signs of numbers in
Write, read, and evaluate expressions	quantities in a real-world problem 6.EE.C.9	Interpret and compute quotients of fractions 6.NS.A.1	quadrants of the coordinate plane 6.NS.C.6.b
6.EE.A.2.c	Find the area of right triangles,		Understand a rational number as a point on the number line. 6.NS.C.6.c
Apply the properties of operations 6.EE.A.3	other triangles 6.G.A.1	Fluently divide multi-digit numbers using the standard algorithm. 6.NS.B.2	
Identify when two expressions are	Find the volume of a right rectangular prism with fractional		Interpret statements of inequality about the relative position of two
equivalent 6.EE.A.4	edge lengths 6.G.A.2	Fluently add, subtract, multiply, and divide multi-digit decimals	numbers on 6.NS.C.7.a
Understand solving an equation or	Draw polygons in the coordinate	6.NS.B.3	Understand ordering and absolute value of rational numbers. 6.NS.C.7.c
inequality 6.EE.B.5	plane given coordinates for the vertices 6.G.A.3	Find the greatest common factor of two whole numbers less than or equal to 100 6.NS.B.4	
Use variables to represent numbers			Understand the concept of a ratio 6.RP.A.1
6.EE.B.6Solve problems by writing equations6.EE.B.7	dimensional figures using nets made up of rectangles and triangles 6.G.A.4	Understand that positive and negative number are used together to describe quantities 6.NS.C.5	Understand the concept of a unit rate 6.RP.A.2

- Strands (Grade 6 8):
- Expressions & Equations (EE)

■ The Number System (NS)

- Ratios & Proportional Relationships (RP)Geometry (G)
- Statistics & Probability (SP)
- Functions (F)

HINT: You can focus learners easily on any skill to match your classroom lesson

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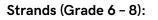


Make tables of equivalent ratios 6.RP.A.3.a	Part 2 – Use ratio and rate reasoning to solve real-world and	Display numerical data in plots on a number line	Part 1 – Summarize numerical data sets in relation to their
Solve unit rate problems including those involving unit pricing and constant speed. 6.RP.A.3.b Part 2 - Use ratio and rate reasoning to solve real-world and mathematical problems 6.RP.A.3.c	mathematical problems 6.RP.A.3.c	6.SP.B.4	context 6.SP.B.5.c Part 2 – Summarize numerical data sets in relation to their
	Use ratio and rate reasoning to solve real-world and mathematical problems 6.RP.A.3.d	Part 1 - Reporting the number of observations. 6.SP.B.5.A	
		Part 2 – Reporting the number of observations.	context 6.SP.B.5.c
	Recognize a statistical question	6.SP.B.5.A	Part 3 – Summarize numerical
	6.SP.A.1	Describing the nature of the	data sets in relation to their
	Recognize that a measure of centre for a numerical data set 6.SP.A.3	attribute under investigation 6.SP.B.5.B	context 6.SP.B.5.c





Apply properties of operations 7.EE.A.1	Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step 7.G.B.5	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers 7.NS.A.1 Understand p + q as the number located a distance q from p, in the positive or negative direction	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. 7.NS.A.2.c
Solve mathematical problems posed with positive and negative			
rational numbers 7.EE.B.3	Part 1 – Solve real-world and mathematical problems of two- and three-dimensional objects 7.G.B.6		
Solve word problems leading to equations of the form px + q = r and p(x + q) = r 7.EE.B.4.a			Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. 7.NS.A.2.d
	Part 2 – Solve real-world and mathematical problems of two- and three-dimensional objects 7.G.B.6	depending on whether q is positive or negative. 7.NS.A.1.b	
Solve word problems leading to inequalities of the form $px + q > r$ 7.G. Partor $px + q < r$ Part 7.EE.B.4.b mat and figures that result from slicing		Understand subtraction of rational numbers as adding the additive inverse, p - q = p + (-q). 7.NS.A.1.c	
	Part 3 - Solve real-world and mathematical problems of two- and three-dimensional objects 7.G.B.6 Part 4 - Solve real-world and mathematical problems of two- and three-dimensional objects 7.G.B.6		Part 1 – Solve real-world and mathematical problems involving the four operations with rational
		Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers 7.NS.A.1.d	numbers. 7.NS.A.3
three-dimensional figures 7.G.A.3			Part 2 – Solve real-world and mathematical problems involving
Know the formulas for the area and circumference of a circle 7.G.B.4			the four operations with rational numbers. 7.NS.A.3



Expressions & Equations (EE)

■ The Number System (NS)

- Ratios & Proportional Relationships (RP) Geometry (G)
- Statistics & Probability (SP) Functions (F)

You can focus Highlight learners easily and annotate me on any skill to

HINT:

match your

classroom lesson



Part 3 – Solve real-world and mathematical problems involving the four operations with rational numbers.	Recognize and represent proportional relationships between quantities. 7.RP.A.2.c	Use data from a random sample to draw inferences about a population with an unknown characteristic of interest.	Understand that the probability of a compound event is the fraction of outcomes in the sample space for which the compound event
7.NS.A.3■Part 4 - Solve real-world and	Part 1 – Use proportional relationships to solve multistep	7.SP.A.2 Understand that the probability	occurs. 7.SP.C.8.A
mathematical problems involving the four operations with rational	ratio and percent problems. 7.RP.A.3	ems. of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring.	Find probabilities of compound events using lists, tables, tree diagrams, and simulation. 7.SP.C.8.
numbers. 7.NS.A.3	Part 2 – Use proportional relationships to solve multistep		
Recognize and represent proportional relationships	ratio and percent problems. 7.RP.A.3	7.SP.C.5Develop a probability model and	
between quantities. 7.RP.A.2.a	Understand that statistics can be used to gain information about a	use it to find probabilities of events.	
Recognize and represent proportional relationships between quantities. 7.RP.A.2.b	population by examining a sample of the population 7.SP.A.1	7.SP.C.7.a	





Part 1 - Know and apply the properties of integer exponents to generate equivalent numerical expressions.

8.EE.A.1

Part 2 - Know and apply the properties of integer exponents to generate equivalent numerical expressions.

8.EE.A.1

Use square root & cube root symbols to represent solutions to equations of the form $x^2 = p \& x^3$ = p, where p is a positive rational number.

8.EE.A.2

Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities 8.EE.A.3

Part 1 - Perform operations with numbers expressed in scientific notation 8.EE.A.4.1

Part 2 - Perform operations with numbers expressed in scientific notation

8.EE.A.4.1

Graph proportional relationships, interpreting the unit rate as the slope of the graph.

8.EE.B.5

Use similar triangles to explain why the slope M is the same between any two distinct points on a non-vertical line in the coordinate plane

8.EE.B.6

Analyze and solve pairs of simultaneous linear equations. 8.EE.C.8.b

Understand that a function is a rule that assigns to each input exactly one output.

8.F.A.1

Compare properties of two functions each represented in a different way

8.F.A.2

Interpret the equation y = mx + bas defining a linear function

8.F.A.3

Construct a function to model a linear relationship between two quantities.

8.F.B.4

Describe qualitatively the functional relationship between two quantities by analyzing a graph

8.F.B.5

Verify experimentally the properties of rotations, reflections, and translations 8.G.A.1

Verify experimentally the properties of rotations, reflections, and translations 8.G.A.1.a

Verify experimentally the properties of rotations, reflections, and translations 8.G.A.1.b

Understand that a twodimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations

8.G.A.2

Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.

8.G.A.3

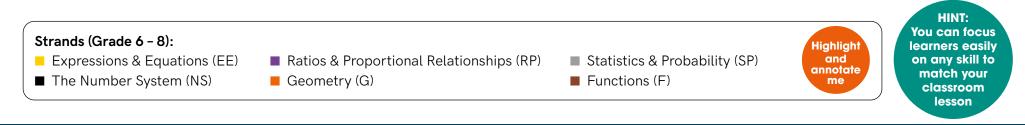
Use informal arguments to establish facts about the angle sum and exterior angle of triangles 8.G.A.5

- Strands (Grade 6 8): Expressions & Equations (EE) Ratios & Proportional Relationships (RP) Statistics & Probability (SP) ■ The Number System (NS) Functions (F) Geometry (G)
- Highlight and annotate me

HINT: You can focus learners easilv on any skill to match your classroom lesson



Apply the Pythagorean Theorem to Determine unknown side lengths in right triangles in two and three dimensions.	Know the formulas for the volumes of cones, cylinders, and spheres 8.G.C.9	Use rational approximations of irrational Numbers to compare the size of irrational numbers 8.NS.A.2	Know that straight lines are wide used to model relationships between two quantitative variables. 8.SP.A.2	
 8.G.B.7 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system. 8.G.B.8 	Know that numbers that are not rational are called irrational. 8.NS.A.1 ■	Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. 8.SP.A.1		





Using our assessment library, you can select a pre-made assessment that is matched to the Mathematics Standards from the Common Core State Standards.

We have an assessment for each unit and have mapped them to our progression framework. Our detailed report can easily be exported and printed to save for your tracking and monitoring evidence.

	Kindergarten	5 Assessments	
	Grade 1	4 Assessments	
Grades K-5	Grade 2	4 Assessments	
Grades K-5	Grade 3	5 Assessments	
	Grade 4	6 Assessments	
	Grade 5	6 Assessments	
	Grade 6	8 Assessments	
Grades 6-8	Grade 7	6 Assessments	
	Grade 8	7 Assessments	

REMEMBER: You can also create your own custom assessments on Sumdog. Selecting the standards you want to assess.

Teacher Planning Template

Class/Student Name:

I				
	SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4
Teacher Notes				
Challenges				
Focus Skills				
Sumdog Assessments				
Sumdog Homework				



Grade:



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