

Mathematics program of study: Virginia Standards for Mathematics

Sumdog Scheme of Learning Kindergarten - Grade 8

Use our handy scheme of learning to help with your planning, tracking and monitoring

How to use the Sumdog Scheme of Learning





When students first login to Sumdog, they will complete a diagnostic test, this will place them at the correct starting point in our scheme of learning.

Want to re-set the starting point or choose your own? No problem.



Our advanced learning engine will adapt the questions students receive.

Differentiation is taken care of (in a subtle way).

Questions cover reviews of past content and new, progressive learning following our scheme.



Children love our games.

They are rewarded with coins for their house, pet and garden.

Teacher Tools



Want to focus learning?

You can easily select the appropriate standard for a challenge for your class.



Data and reporting available making **tracking student progress** and assessment **moderation** a breeze!



Choose and set topics for homework, easily.

The best bit is we do the marking!



Keep your class motivated by creating competitions or why not enter a **regional or national contest** and see if you can win our trophy!



Our ready-made assessment library for Grades K-8 has an assessment for each mathematics domain, completely mapped to the Common Core State Standards.

Or easily make your own!



Growth Mindset

With common misconceptions identified, use our questions as a teaching point, learning from mistakes!

Kindergarten



Add with 1 CE.K.6_1	Half/Doubles CE.K.6_9	Calendar MG.K.8_1	Count Up or Down by 1 NS.K.3.a_1
Add with 2 CE.K.6_2	Subtract from 10 CE.K.6_10	Compare Measures MG.K.9_1	Count Down by 1 NS.K.3.b_1
Add with 3 CE.K.6_3	Subtract from 11 or 12 CE.K.6_11	Count Up to 25 Objects NS.K.1.a_1	Count Down by 1 NS.K.3.c_1
Add with 4 CE.K.6_4	Subtract from 3, 4, or 5 CE.K.6_12	Count Up to 5 Objects NS.K.1.a_2	Count Up by 1 NS.K.3.c_2
Add with 5 CE.K.6_5	Subtract from 6 or 7 CE.K.6_13	Tens and Ones NS.K.1.a_3	Count Up or Down by 1 NS.K.3.c_3
Add with 6 or 7 CE.K.6_6	Subtract from 8 or 9 CE.K.6_14	Numbers in Words NS.K.1.b_1	Ten More NS.K.3.d_1
Add with 8 or 9 CE.K.6_7	2D Shapes MG.K.10.a_1	Compare Numbers NS.K.2.a_1	Half/Doubles NS.K.5_1
Addition and Subtraction Word Problems CE.K.6_8	2D Shapes MG.K.10.b_1	Order Numbers NS.K.2.a_2	•

Strands (Kindergarten - Grade 5):

- Computation and Estimation (CE)
- Patterns, Functions and Algebra (PFA)
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Addition and Subtraction Word Problems	Halves MG.1.10_1		Time to the Half Hour MG.1.9.a_2		Sequences PFA.1.14_1	
CE.1.6_1 Subtract from 13 or 14	Measure Length MG.1.10_2		Calendar MG.1.9.b_1	•	Skip Count PFA.1.14_2	
CE.1.6_2 Subtract from 15, 16, 17, or 18	2D Shapes MG.1.11.a_1		Count in 1s NS.1.1.a_1		Picture Graphs PS.1.12.b_1	
CE.1.6_3 Questions with the Same Answers	Money Less Than \$1 MG.1.8_1		Skip Count NS.1.1.d_1	•	Tables PS.1.12.b_2	-
CE.1.7.b_1 Subtract Doubles	Money to \$2 MG.1.8_2		Position NS.1.3_1	•		
CE.1.7.b_2	Time to 15-Minute Accuracy MG.1.9.a_1	•	Halves NS.1.4.b_1	•		

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Inverse Relationship CE.2.5.a_1	Add with Multiples of 10 CE.2.6.b_10	Subtract 100s CE.2.6.b_20	Subtract within 1,000 CE.2.6.c_3
Estimate Sums and Differences CE.2.6.a_1	Add within 10 CE.2.6.b_11	Subtract 10s CE.2.6.b_21	More Than One Line of Symmetr MG.2.12.b_1
Add 1-Digit and 2-Digit Numbers CE.2.6.b_1	Add within 20 CE.2.6.b_12	Subtract 1s CE.2.6.b_22	One Line of Symmetry MG.2.12.b_2
Add 100s CE.2.6.b_2	Column Addition CE.2.6.b_13	Subtract 2-Digit Numbers CE.2.6.b_23	2D Shapes MG.2.13_1
Add 10s CE.2.6.b_3	Column Subtraction CE.2.6.b_14	Subtract with Multiples of 10 CE.2.6.b_24	3D Shapes ■ MG.2.13_2
Add 1s CE.2.6.b_4	Forms of Numbers CE.2.6.b_15	Subtract within 10 CE.2.6.b_25	Money Amounts MG.2.7.a_1
Add 2-Digit Numbers CE.2.6.b_5	Inverse Relationship CE.2.6.b_16	Subtract within 20 CE.2.6.b_26	Add and Subtract with Money MG.2.7.b_1
Add Four 1-Digit Numbers CE.2.6.b_6	Part-Part-Whole CE.2.6.b_17	Take Away within 20 CE.2.6.b_27	Money Amounts MG.2.7.b_2
Add Four Numbers CE.2.6.b_7	Related Questions CE.2.6.b_18	Add within 1,000 CE.2.6.c_1	Measurement MG.2.8.a_1
Add Three Numbers	Subtract 1-Digit Numbers from	Addition and Subtraction	Measurement
CE.2.6.b_8 Add to Make a Number CE.2.6.b_9	2-Digit Numbers CE.2.6.b_19	Word Problems CE.2.6.c_2	MG.2.8.b_1 ■

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Clocks MG.2.9_1	Round Numbers NS.2.1.d_1	Identify Fractions NS.2.4.b_2	Dot Plots PS.2.15.b_2	
Convert Numbers NS.2.1.a_1	Skip Count NS.2.2.a_1	Unit Fractions NS.2.4.b_3	Pictographs PS.2.15.b_3	
Forms of Numbers NS.2.1.a_2	Even / Odd NS.2.2.c_1	Unit Fractions NS.2.4.c_1	Scale for Graphs PS.2.15.b_4	
More or Less Than NS.2.1.b_1	Ordinal Numbers NS.2.3.b_1	Skip Count PFA.2.16_1		
Skip Count NS.2.1.b_2	Identify Fractions NS.2.4.a_1	Scale for Graphs PS.2.15.a_1		
Compare and Order Numbers NS.2.1.c_1	Add and Subtract Fractions NS.2.4.b_1	Bar Graphs PS.2.15.b_1		

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Add Multiples of Powers of 10 CE.3.3.a_1	Divide 4 to 10 CE.3.4.a_5	Unknown Numbers in Division CE.3.4.a_15	Doubling and Halving CE.3.4.c_1
Estimate Sums and Differences CE.3.3.a_2	Divide 42 to 60 CE.3.4.a_6	Arrays CE.3.4.b_1	Identify Correct Multiplication or Division Equation
Solve Multi-Step Addition or Subtraction Problems	Divide 63 to 100 CE.3.4.a_7	Division Table: 2, 5, 10 CE.3.4.b_2	CE.3.4.c_2 Inverse Relationships
CE.3.3.a_3 Add 2-Digit Numbers CE.3.3.b_1	Division Table: 2, 5, 10 CE.3.4.a_8	Multiplication and Division Word Problems CE.3.4.b_3	Multiply with 1 CE.3.4.c_4
Add Multiples of Powers of 10 CE.3.3.b_2	Division Table: 3, 4, 8, 6, 9, 7 CE.3.4.a_9 Doubling and Halving	Multiply with 6 CE.3.4.b_4	Multiply with 10 through 6 CE.3.4.c_5
Subtract Multiples of Powers of 10 CE.3.3.b_3	CE.3.4.a_10 Identify Correct Multiplication or	Multiply with 9 or 7 CE.3.4.b_5	Multiply with 10, 7 to 10 CE.3.4.c_6
Arrays CE.3.4.a_1	Division Equation CE.3.4.a_11	Related Division Questions CE.3.4.b_6	Multiply with 2 through 5 CE.3.4.c_7
Divide 12 to 20 CE.3.4.a_2 ■	Inverse Relationships CE.3.4.a_12	Related Multiplication Questions CE.3.4.b_7	Multiply with 2, 6 to 10 CE.3.4.c_8
Divide 21 to 30 CE.3.4.a_3	Multiply with 8 CE.3.4.a_13 ■	Unknown Numbers in Division CE.3.4.b_8	Multiply with 5 through 5 CE.3.4.c_9
Divide 32 to 40 CE.3.4.a_4	Skip Count CE.3.4.a_14	Unknown Numbers in Multiplication CE.3.4.b_9	Multiply with 5, 6 to 10 CE.3.4.c_10

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Related Multiplication Questions CE.3.4.c_11	Volume MG.3.7.b_1		Sequences MG.3.9.c_2	Turns NS.3.2.a_3 ■
Unknown Numbers in Multiplication	Perimeter MG.3.8.a_1		Forms of Numbers NS.3.1.a_1	Compare, Order, and Sequence Fractions
CE.3.4.c_12	Area	_	Round Numbers	NS.3.2.c_1
Multiplication and Division Word	MG.3.8.b_1		NS.3.1.b_1	Sequences
Problems	Telling Time	_	Compare and Order Numbers	PFA.3.16_1
CE.3.4.d_1	MG.3.9.a_1		NS.3.1.c_1	Skip Count
Add and Subtract Fractions CE.3.5_1	Elapsed Time MG.3.9.b_1		Fractions as Words NS.3.2.a_1	PFA.3.16_2 ■
Polygons MG.3.12.b_1	Convert Time MG.3.9.c_1		Fractions Greater than 1 NS.3.2.a_2	-

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Division and Times Tables CE.4.4.a_1	Related Division Equation CE.4.4.a_12	Multiply with 3-Digit Numbers CE.4.4.b_10	Add within 1,000,000 CE.4.4.d_1	
Multiply Three Numbers CE.4.4.a_2	Add within 1,000,000 CE.4.4.b_1	Multiply with 4-Digit Numbers CE.4.4.b_11	Column Subtraction CE.4.4.d_2	
Multiply with 11, 7 to 12 CE.4.4.a_3	Arrays CE.4.4.b_2	Subtract within 10,000 CE.4.4.b_12	Division and Times Tables CE.4.4.d_3	
Multiply with 11, through 6 CE.4.4.a_4	Column Subtraction CE.4.4.b_3	Divide 2- or 3-Digit Numbers by 1-Digit Numbers	Model Multiplying with 2-Digit Numbers	
Multiply with 12, 7 to 12 CE.4.4.a_5	Estimate Addition and Subtraction CE.4.4.b_4	CE.4.4.c_1 Divide 4-Digit Numbers by 1-Digit	CE.4.4.d_4 Multi-Step Addition or Subtraction	
Multiply with 12, through 6 CE.4.4.a_6	Estimate Multiplication CE.4.4.b_5	Numbers CE.4.4.c_2	CE.4.4.d_5 Multiply with 2-Digit Numbers	
Multiply with 3, 7 to 9 CE.4.4.a_7	Model Multiplying with 2-Digit Numbers	Divide by Multi-Digit Numbers CE.4.4.c_3	CE.4.4.d_6 Multiply with 3-Digit Numbers	
Multiply with 3, through 6	CE.4.4.b_6	Divide Multi-Digit Numbers	CE.4.4.d_7	
CE.4.4.a_8	Multi-Step Addition or Subtraction	CE.4.4.c_4	Subtract within 10,000	
Multiply with 4	CE.4.4.b_7	Division Word Problems CE.4.4.c_5	CE.4.4.d_8	
CE.4.4.a_9	Multiply by Multiples of Powers of10	Estimate Division	Factors CE.4.5.a_1	
Multiply with 6, 9, or 7 CE.4.4.a_10	CE.4.4.b_8	CE.4.4.c_6	Multiply Three Numbers	
Multiply with 8 CE.4.4.a_11	Multiply with 2-Digit Numbers CE.4.4.b_9	Mental Math: Division CE.4.4.c_7 ■	CE.4.5.a_2	

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Add Fractions CE.4.5.b_1	Add and Subtract with Three Decimal Places	Perimeter MG.4.7_5	Place Value NS.4.1.a_1	-
Add Fractions with Like Denominators	CE.4.6.a_2 Add and Subtract with Two	Perimeter of Composite Figures MG.4.7_6	Compare and Order Numbers NS.4.1.b_1	
CE.4.5.b_2 Inverse Relationships, Fractions	Decimal Places CE.4.6.a_3	Weight	Integers NS.4.1.b_2	_
CE.4.5.b_3 Multiply Unit Fractions	Lines, Segments, Angles, and Rays MG.4.10.a_1	Add and Subtract Measures MG.4.8.c_1	Round Numbers NS.4.1.c_1	_
CE.4.5.b_4 ■ Subtract Fractions	Lines, Segments, Angles, and Rays	Compare Measures MG.4.8.c_2	Equivalent Fractions NS.4.2.b_1	
CE.4.5.b_5	MG.4.10.b_1	Convert Measures with Whole	Tenths and Hundredths	
Subtract Fractions with Like Denominators CE.4.5.b_6	2D and 3D Shapes MG.4.11_1	Numbers MG.4.8.c_3	NS.4.2.b_2 Fraction as Division	
Add Fractions	Area MG.4.7_1	Convert Measures, Mixed Units MG.4.8.c_4	NS.4.2.c_1 Read Decimals	
CE.4.5.c_1 Subtract Fractions	Area of Quadrilaterals MG.4.7_2	Compare Measures MG.4.8.d_1	NS.4.3.a_1 Round Decimals	
CE.4.5.c_2 Add and Subtract Tenths	Area of Rectangles MG.4.7_3	Elapsed Time MG.4.9_1	NS.4.3.b_1 Compare Decimals	
CE.4.6.a_1 ■	Model Multiplying with 2-Digit Numbers MG.4.7_4	Future and Past Times MG.4.9_2	NS.4.3.c_1	•

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Grade 4 (continued)



Order Decimals	Number Patterns	2 Times table (fluent)		5 Times table (fluent)
NS.4.3.c_2	PFA.4.15_1	3 Times table (fluent)		10 Times table (fluent)
Tenths and Hundredths NS.4.3.d_1	Line Graphs PS.4.14.b_1	4 Times table (fluent)	•	

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Dot Plots CE.5.4_1	Circles MG.5.10_1	Perimeter and Area MG.5.8.a_4	Comparison Word Problems PFA.5.19.b_1	
Multi-Step Multiplication and Division Problems	Angles MG.5.12_1	Volume Word Problems MG.5.8.a_5	Write Expressions PFA.5.19.c_1	
CE.5.4_2 Multiply and Divide by Powers of	Triangles MG.5.13.a_1	Convert Decimal-Number Metric Measures	Line Plots PS.5.16.b_1	
10 CE.5.4_3	Triangles MG.5.13.b_1	MG.5.9.a_1 Convert Whole-Number Metric	Stem and Leaf Plots PS.5.16.b_2	
Multiply and Divide by Powers of 10	Shape Transformations on Coordinate Grid	Measures MG.5.9.a_2 ■	Describe Statistical Data PS.5.17.c_1	
CE.5.5.a_1 Multiply and Divide Decimals	MG.5.14.a_1 Transformations	Measurement Tables MG.5.9.a_3	Describe Statistical Data PS.5.17.d_1	
CE.5.5.a_2	MG.5.14.a_2	Round Decimals		_
Multiply and Divide Decimals CE.5.5.b_1	Vertical and Horizontal Changes	NS.5.1_1	Dot Plots PS.5.17.d_2	
Add Fractions	on Coordinate Grid MG.5.14.a_3	Convert Between Fractions and Decimals	Stem and Leaf Plots PS.5.17.d_3	
CE.5.6.a_1	Add Measures of Volume	NS.5.2.a_1	6 Times table (fluent)	_
Multiplying with Fractions CE.5.6.b_1	MG.5.8.a_1	Compare and Order Fractions NS.5.2.b_1	7 Times table (fluent)	_
Expressions and Equations	Find Volume from Pictures MG.5.8.a_2	Prime and Composite	8 Times table (fluent)	
CE.5.7_1 ■	Find Volume with Formulas	NS.5.3.a_1	9 Times table (fluent)	_
Multi-Step Multiplication and Division Problems	MG.5.8.a_3	Numerical Sequences PFA.5.18_1	11 Times table (fluent)	_
CE.5.7_2		117.0.10_1	12 Times table (fluent)	

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Numerical expressions involving whole-numbers

6.EE.A.1

Identify parts of an expression

6.EE.A.2.b

Write, read, and evaluate expressions

6.EE.A.2.c

Apply the properties of operations

6.EE.A.3

Identify when two expressions are equivalent

6.EE.A.4

Understand solving an equation or inequality

6.EE.B.5

Use variables to represent numbers

6.EE.B.6

Solve problems by writing equations

6.EE.B.7

Write an inequality of the form to represent a constraint or condition

6.EE.B.8

Use variables to represent two quantities in a real-world problem

6.EE.C.9

Find the area of right triangles, other triangles

6.G.A.1

Find the volume of a right rectangular prism with fractional edge lengths

6.G.A.2

Draw polygons in the coordinate plane given coordinates for the vertices

6.G.A.3

Part 1 – Represent threedimensional figures using nets made up of rectangles and triangles

6.G.A.4

Part 2 – Represent threedimensional figures using nets made up of rectangles and triangles

6.G.A.4

Interpret and compute quotients of fractions

6.NS.A.1

Fluently divide multi-digit numbers using the standard algorithm.

6.NS.B.2

Fluently add, subtract, multiply, and divide multi-digit decimals

6.NS.B.3

Find the greatest common factor of two whole numbers less than or equal to 100

6.NS.B.4

Understand that positive and negative number are used together to describe quantities **6.NS.C.5**

Recognize opposite signs of numbers as indicating locations on the number line

6.NS.C.6.a

Understand signs of numbers in quadrants of the coordinate plane

6.NS.C.6.b

Understand a rational number as a point on the number line.

6.NS.C.6.c

Interpret statements of inequality about the relative position of two numbers on

6.NS.C.7.a

Understand ordering and absolute value of rational numbers.

6.NS.C.7.c

Understand the concept of a ratio

6.RP.A.1

Understand the concept of a unit rate

6.RP.A.2



- Expressions & Equations (EE)
- The Number System (NS)
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- Geometry (G)

- Statistics & Probability (SP)
- Functions (F)



Grade 6 (continued)



Make tables of equivalent ratios

6.RP.A.3.a

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

Part 2 – Use ratio and rate reasoning to solve real-world and mathematical problems

6.RP.A.3.c

Use ratio and rate reasoning to solve real-world and mathematical problems

6.RP.A.3.d

Recognize a statistical question

6.SP.A.1

Recognize that a measure of centre for a numerical data set **6.SP.A.3**

Display numerical data in plots on a number line

6.SP.B.4

Part 1 – Reporting the number of observations.

6.SP.B.5.A

Part 2 – Reporting the number of observations.

6.SP.B.5.A

Describing the nature of the attribute under investigation **6.SP.B.5.B**

Part 1 – Summarize numerical data sets in relation to their context

6.SP.B.5.c

Part 2 - Summarize numerical data sets in relation to their context

6.SP.B.5.c

Part 3 – Summarize numerical data sets in relation to their context

6.SP.B.5.c

Strands (Grade 6 - 8):

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Apply properties of operations

7.EE.A.1

Solve mathematical problems posed with positive and negative rational numbers

7.EE.B.3

Solve word problems leading to equations of the form px + q = r and p(x + q) = r

7.EE.B.4.a

Solve word problems leading to inequalities of the form px + q > r or px + q < r

7.EE.B.4.b

Describe the two-dimensional figures that result from slicing three-dimensional figures

7.G.A.3

Know the formulas for the area and circumference of a circle **7.G.B.4**

Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step **7.G.B.5**

Part 1 – Solve real-world and mathematical problems of twoand three-dimensional objects

7.G.B.6

Part 2 - Solve real-world and mathematical problems of twoand three-dimensional objects

7.G.B.6

Part 3 – Solve real-world and mathematical problems of twoand three-dimensional objects

7.G.B.6

Part 4 – Solve real-world and mathematical problems of twoand three-dimensional objects **7.G.B.6** 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 depending on whether q is positive or negative.

7.NS.A.1.b

Understand subtraction of rational numbers as adding the additive inverse, p - q = p + (-q).

7.NS.A.1.c

Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers

7.NS.A.1.d

Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.

7.NS.A.2.c

Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.

7.NS.A.2.d

Part 1 – Solve real-world and mathematical problems involving the four operations with rational numbers.

7.NS.A.3

Part 2 – Solve real-world and mathematical problems involving the four operations with rational numbers.

7.NS.A.3



- Expressions & Equations (EE)
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Grade 7 (continued)



Part 3 – Solve real-world and mathematical problems involving the four operations with rational numbers.

7.NS.A.3

Part 4 – Solve real-world and mathematical problems involving the four operations with rational numbers.

7.NS.A.3

Recognize and represent proportional relationships between quantities.

7.RP.A.2.a

Recognize and represent proportional relationships between quantities.

7.RP.A.2.b

Recognize and represent proportional relationships between quantities.

7.RP.A.2.c

Part 1 – Use proportional relationships to solve multistep ratio and percent problems.

7.RP.A.3

Part 2 – Use proportional relationships to solve multistep ratio and percent problems.

7.RP.A.3

Understand that statistics can be used to gain information about a population by examining a sample of the population

7.SP.A.1

Use data from a random sample to draw inferences about a population with an unknown characteristic of interest.

7.SP.A.2

Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring.

7.SP.C.5

Develop a probability model and use it to find probabilities of events.

7.SP.C.7.a

Understand that the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs.

7.SP.C.8.A

Find probabilities of compound events using lists, tables, tree diagrams, and simulation.

7.SP.C.8.

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Sumdog Assessment Library



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	
Grades K-5	Grade 1	4 Assessments	
	Grade 2	4 Assessments	
	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.





Class/Student Name:				Grade:
	SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4
Teacher Notes				
Challenges				
Focus Skills				
Sumdog Assessments				
Sumdog Homework				



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