KINDERGARTEN – 8TH GRADE

Mathematics program of study:
South Carolina 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 to Make a Number **K.ATO.1_1** ■	Subtract from 6, 7, or 8 **K.ATO.5_2** ■	Subtract within 10 **K.ATO.5_14** ■	1 More / 1 Less **K.NS.4.c_1** ■
Add with 1 **K.ATO.2_1** ■	Subtract from 9 or 10 **K.ATO.5_3** ■	Add and Subtract within 20 **K.ATO.5_15** ■	Count Up/Down within 10 **K.NS.4.c_3** ■
Subtract from 9 or 10 **K.ATO.2_2** ■	Subtract from 11 or 12 **K.ATO.5_4** ■	Add to Make a Number **K.ATO.5_16** ■	Count Up/Down within 5 **K.NS.4.c_2** ■
Subtract from 11 or 12 **K.ATO.2_3** ■	Add with 1 **K.ATO.5_5** ■	Shape Patterns **K.ATO.6_1** ■	Count within 5 **K.NS.5_1** ■
Add with 2 **K.ATO.2_4** ■	Add with 2 **K.ATO.5_6** ■	3D Shapes **K.G.2_1** ■	Count within 10 **K.NS.5_2** ■
Add with 3 **K.ATO.2_5** ■	Add with 3 **K.ATO.5_7** ■	2D Shapes **K.G.2_2** ■	Count within 20 **K.NS.5_3** ■
Add with 4 **K.ATO.2_6** ■	Add with 4 **K.ATO.5_8** ■	2D Shapes **K.G.4_1** ■	Compare and Order Sets **K.NS.7_1** ■
Add with 5 or 6 **K.ATO.2_7** ■	Add with 5 or 6 **K.ATO.5_9** ■	Compare Measures **K.MDA.2_1** ■	Compare and Order Numbers **K.NS.8_1** ■
Subtract from 6, 7, or 8 **K.ATO.2_8** ■	Add within 5 **K.ATO.5_10** ■	Count in 10s **K.NS.1_1** ■	Ordinal Positions **K.NS.9_1** ■
Add with 7, 8, or 9 **K.ATO.2_9** ■	Subtract within 5 **K.ATO.5_11** ■	Count Up/Down within 10 **K.NS.2_1** ■	
Subtract from 9 or 10 **K.ATO.2_10** ■	Add to Make a Number **K.ATO.5_12** ■	Count within 1,000 **K.NS.2_2** ■	
Subtract from 2, 3, 4, or 5 **K.ATO.5_1** ■	Add within 10 **K.ATO.5_13** ■	Count within 20 **K.NS.4.a_1** ■	

Strands (Kindergarten – Grade 5):

■ Number Sense (NS) ■ Algebraic Thinking & Operations (ATO) ■ Geometry, Measure and Data (G/MDA)

Highlight and annotate me

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

Grade 1

Addition and Subtract Word Problems
1.ATO.1_1

Add Three or Four 1-Digit Numbers
1.ATO.3_1

Add Three or Four Numbers within 100
1.ATO.3_2

Related Questions
1.ATO.3_3

Add Three or Four Numbers within 100
1.ATO.3_4

Subtract from 13 or 14
1.ATO.6.a_1

Subtract from 15, 16, 17, or 18
1.ATO.6.a_2

Subtract from 13 or 14
1.ATO.6.a_3

Subtract from 15, 16, 17, or 18
1.ATO.6.a_4

Add within 20
1.ATO.6.a_5

Add Three or Four 1-Digit Numbers
1.ATO.6.a_6

Subtract 10
1.ATO.6.a_7

Subtract within 20
1.ATO.6.a_8

Add and Subtract with Unknowns
1.ATO.6.a_9

Subtract 1-Digit Numbers from 2-Digit Numbers
1.ATO.6.a_10

Add Three or Four 1-Digit Numbers
1.ATO.6.b_1

Related Questions
1.ATO.7_1

Add and Subtract with Unknowns
1.ATO.8_1

Patterns
1.ATO.9.a_1

Patterns
1.ATO.9.b_1

Fractions
1.G.3_1

2D Shapes
1.G.4_1

Measure Length
1.MDA.2_1

Time to the Half Hour
1.MDA.3_1

Time to 15-Minute Accuracy
1.MDA.3_2

Picture Graphs
1.MDA.5_1

Tally Charts
1.MDA.5_2

Money within $0.99
1.MDA.6_1

Count in 1s
1.NSBT.1.a_1

Count in 5s
1.NSBT.1.b_1

Count in 10s
1.NSBT.1.b_2

Numbers as Words
1.NSBT.1.d_1

Place Value
1.NSBT.2.b_1

Order Numbers
1.NSBT.3_1

Compare Numbers
1.NSBT.3_2

Add 1-Digit and 2-Digit Numbers
1.NSBT.4.a_1

Add Three or Four Numbers within 100
1.NSBT.4.a_2

Add 2-Digit Numbers and Multiple of 10
1.NSBT.4.b_1

Ten More / Ten Less
1.NSBT.5_1

Subtract with Multiples of 10
1.NSBT.6_1

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Grade 2

Word Problems
2.ATO.1_1

Even / Odd
2.ATO.3_1

Arrays
2.ATO.4_1

2D Shapes
2.G.1_1

Fractions
2.G.2_1

Fractions
2.G.3_1

Bar Graphs
2.MDA.10_1

Tables
2.MDA.10_2

Pictographs
2.MDA.10_3

Scaled Graphs
2.MDA.10_4

Dot Plots
2.MDA.10_5

Estimate Length
2.MDA.3_1

Clocks
2.MDA.6_1

Money
2.MDA.7_1

Money: Mixed Amounts
2.MDA.7_2

Scaled Graphs
2.MDA.9_1

Place Value
2.NSBT.1.b_1

Forms of Numbers
2.NSBT.1.c_1

Count in 10s and 100s
2.NSBT.2_1

Numbers in Words
2.NSBT.3_1

Forms of Numbers
2.NSBT.3_2

Numbers in Words
2.NSBT.3_3

Compare and Order
2.NSBT.4_1

Add with 2-Digiit Numbers
2.NSBT.5_1

Subtract 1-Digit Numbers from 2-Digit Numbers
2.NSBT.5_2

Subtract 2-Digit Numbers
2.NSBT.5_3

Related Questions and inverse Relationships
2.NSBT.5_4

Money
2.NSBT.5_5

Column Addition
2.NSBT.5_6

Column Subtraction
2.NSBT.5_7

Add Four Numbers
2.NSBT.6_1

Add 100s
2.NSBT.7_1

Add within 1,000
2.NSBT.7_2

Add with 3-Digit Numbers
2.NSBT.7_3

Subtract 100s
2.NSBT.7_4

Subtract 10s
2.NSBT.7_5

Subtract within 1,000
2.NSBT.7_6

Add with 2-Digiit Numbers
2.NSBT.7_7

Subtract with 3-Digit Numbers
2.NSBT.7_8

Related Questions and inverse Relationships
2.NSBT.7_9

Add and Subtract with Unknowns
2.NSBT.7_10

Column Addition
2.NSBT.7_11

Column Subtraction
2.NSBT.7_12

More / Less
2.NSBT.8_1

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- Number Patterns **3.ATO.1_1**
- Multiplication Word Problems **3.ATO.3_1**
- Multiplying with Properties **3.ATO.3_2**
- Identify the Unknown with Multiplication **3.ATO.4_1**
- Division with 2, 5, or 10 **3.ATO.4_2**
- Division with 3, 4, or 8 **3.ATO.4_3**
- Division with 6, 9, or 7 **3.ATO.4_4**
- Division of 2- or 3-Digit Numbers **3.ATO.4_5**
- Related Questions **3.ATO.5_1**
- Multiplying with Properties **3.ATO.5_2**
- Multiplication of 2- or 3-Digit Numbers **3.ATO.5_3**
- Divide 2 to 10 **3.ATO.7_1**
- Divide 63 to 100 **3.ATO.7_2**
- Divide 12 to 20 **3.ATO.7_3**
- Divide 21 to 30 **3.ATO.7_4**
- Divide 32 to 40 **3.ATO.7_5**
- Divide 32 to 40 **3.ATO.7_6**
- Divide 42 to 60 **3.ATO.7_7**
- Multiply with 2, through 5 **3.ATO.7_8**
- Multiply with 2, 6 to 10 **3.ATO.7_9**
- Multiply with 5, through 5 **3.ATO.7_10**
- Multiply with 5, 6 to 10 **3.ATO.7_11**
- Multiply with 10, through 6 **3.ATO.7_12**
- Multiply with 10, 7 to 10 **3.ATO.7_13**
- Division with 2, 5, or 10 **3.ATO.7_14**
- Related Questions **3.ATO.7_15**
- Inverse Relationships **3.ATO.7_16**
- Multiplication Word Problems **3.ATO.7_17**
- Doubling and Halving **3.ATO.7_18**
- Multiply with 3, through 6 **3.ATO.7_19**
- Multiply with 3, 7 to 9 **3.ATO.7_20**
- Multiply with 4, through 6 **3.ATO.7_21**
- Multiply with 4, 7 to 9 **3.ATO.7_22**
- Multiply with 8 **3.ATO.7_23**
- Division with 3, 4, or 8 **3.ATO.7_24**
- Multiply with 6 **3.ATO.7_25**
- Multiply with 9 or 7 **3.ATO.7_26**
- Division with 6, 9, or 7 **3.ATO.7_27**
- Multiplying with Properties **3.ATO.7_28**
- Add 2-Digit Numbers **3.ATO.8_1**
- Multi-Step Addition & Subtraction Problems **3.ATO.8_2**

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Number Patterns
3.ATO.9_1

Quadrilaterals
3.G.1_1

Equivalent Fractions
3.G.2_1

Angles
3.G.3_1

Recognize Nets
3.G.4_1

Identify Nets
3.G.4_2

Time Sequences
3.MDA.1_1

Durations
3.MDA.1_2

Clocks
3.MDA.1_3

Elapsed Time
3.MDA.1_4

Reading a Schedule
3.MDA.1_5

Compare and Estimate Measures
3.MDA.2_1

Tables
3.MDA.3_1

Line Graphs
3.MDA.3_2

Area of a Shape
3.MDA.5.a_1

Area of a Shape
3.MDA.5.b_1

Multiplication of 2- or 3-Digit Numbers
3.MDA.5.c_1

Area of a Shape
3.MDA.5.c_2

Area Using a Formula
3.MDA.5.c_3

Perimeter – Given All Sides
3.MDA.6_1

Perimeter
3.MDA.6_2

Perimeter of Composite Shapes
3.MDA.6_3

Round to Estimate
3.NSBT.1_1

Add 100
3.NSBT.2_1

Multi-Step Addition & Subtraction Problems
3.NSBT.2_2

Multiply with 2, 6 to 10
3.NSBT.3_1

Identify Correct Multiplication or Division Equation
3.NSBT.3_2

Multiply 1-Digit Numbers by 10s or 100s
3.NSBT.3_3

Forms of Numbers
3.NSBT.4_1

Compare and Order Integers
3.NSBT.5_1

Unit Fractions
3.NSF.1.a_1

Identify Fractions
3.NSF.1.b_1

Identify Fractions
3.NSF.1.c_1

Identify Fractions
3.NSF.1.d_1

Add and Subtract Fractions
3.NSF.1.d_2

Equivalent Fractions
3.NSF.2.a_1

Unit Fractions
3.NSF.2.b_1

Identify Fractions
3.NSF.2.c_1

Compare and Order Fractions
3.NSF.2.d_1

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Grade 4

Dot Plots
4.ATO.2_1

Multi-Step Word Problems
4.ATO.3_1

Multiply with Properties
4.ATO.4_1

Factors
4.ATO.4_2

Prime and Composite Numbers
4.ATO.4_3

Number Patterns
4.ATO.5_1

Lines and Angles
4.G.1_1

Triangles
4.G.3_1

One Line of Symmetry
4.G.4_1

More Than One Line of Symmetry
4.G.4_2

Convert Time
4.MDA.1_1

Compare Measures
4.MDA.1_2

Convert Whole-Number Measures
4.MDA.1_3

Convert Mixed Customary Measures
4.MDA.1_4

Convert Mixed Metric Measures
4.MDA.1_5

Elapsed Time
4.MDA.2_1

Perimeter and Area
4.MDA.3_1

Line Plots
4.MDA.4_1

Unknown Angles
4.MDA.7_1

Place Value
4.NSBT.1_1

Round Numbers
4.NSBT.3_1

Estimate
4.NSBT.3_2

Round Numbers
4.NSBT.3_3

Add within 1,000,000
4.NSBT.4_1

Add 10s, 100s, and 1,000s
4.NSBT.4_2

Subtract 10s, 100s, & 1,000s
4.NSBT.4_3

Add within 1,000,000
4.NSBT.4_4

Subtract within 10,000
4.NSBT.4_5

Subtract within 1,000,000
4.NSBT.4_6

Multiply with 2-Digit Numbers
4.NSBT.5_1

Multiply with 3-Digit Numbers
4.NSBT.5_2

Multiply by a Multiple of a Power of 10
4.NSBT.5_3

Multiply with 4-Digit Numbers
4.NSBT.5_4

Divide by 1-Digit Numbers
4.NSBT.6_1

Divide Multi-Digit Numbers
4.NSBT.6_2

Equivalent Fractions
4.NSF.1_1

Add and Subtract Fractions within 1
4.NSF.3.a_1

Add & Subtract with Mixed Numbers
4.NSF.3.b_1

Add and Subtract Fractions
4.NSF.3.c_1

Multiply with Unit Fractions
4.NSF.4.b_1

Strands (Kindergarten – Grade 5):
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Multiply with Fractions
4.NSF.4.b_2 ■

Multiply with Unit Fractions
4.NSF.4.c_1 ■

Equivalent Fractions
4.NSF.5_1 ■

Equivalent Decimals
4.NSF.6_1 ■

Read Decimals
4.NSF.7_1 ■

Compare Decimal Numbers
4.NSF.7_2 ■

Order Decimal Numbers
4.NSF.7_3 ■

2 Times table (fluent) ■

3 Times table (fluent) ■

4 Times table (fluent) ■

5 Times table (fluent) ■

10 Times table (fluent) ■

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Grade 5

Expressions and Equations
5.ATO.1_1

Write Expressions
5.ATO.2_1

Polygons on the Coordinate Plane
5.G.1.b_1

Points on the Coordinate Plane
5.G.2_1

Attributes of 2D Figures
5.G.4_1

Metric Measures of Length
5.MDA.1_1

Measures of Time
5.MDA.1_2

Volume with Customary Units
5.MDA.3.a_1

Volume with Metric Units
5.MDA.3.a_2

Volume with Cube Units
5.MDA.3.b_1

Volume with Metric Units
5.MDA.3.c_1

Volume Word Problems
5.MDA.3.c_2

Volume with Customary Units
5.MDA.3.c_3

Compare Volume
5.MDA.3.c_4

Place Value
5.NSBT.1_1

Number Patterns
5.NSBT.2.a_1

Multiply or Divide by Powers of 10
5.NSBT.2.a_2

Multiply or Divide by Powers of 10
5.NSBT.2.b_1

Round Decimals
5.NSBT.4_1

Multiply 2-Digit Numbers by 2-Digit Numbers
5.NSBT.5_1

Number Patterns
5.NSBT.5_2

Divide by 10, 25, 100, or 2-Digit Numbers
5.NSBT.6_1

Add and Subtract Tenths
5.NSBT.7_1

Add and Subtract to 2 and 3 Decimal Places
5.NSBT.7_2

Decimal Word Problems
5.NSBT.7_3

Multiply Decimals
5.NSBT.7_4

Add and Subtract Fractions
5.NSF.1_1

Add or Subtract and Simplify Fractions
5.NSF.1_2

Fraction Word Problems
5.NSF.2_1

Equivalent Fractions
5.NSF.3_1

Multiply Fractions
5.NSF.4.b_1

Multiply Fractions
5.NSF.5.a_1

Multiply Fractions
5.NSF.6_1

Divide with Unit Fractions
5.NSF.7.a_1

Divide with Unit Fractions
5.NSF.7.b_1

Divide with Unit Fractions
5.NSF.8_1

6 Times table (fluent)

7 Times table (fluent)

8 Times table (fluent)

9 Times table (fluent)

11 Times table (fluent)

12 Times table (fluent)

Strands (Kindergarten – Grade 5):
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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 three-dimensional figures using nets made up of rectangles and triangles
6.G.A.4

Part 2 – Represent three-dimensional 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

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

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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

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- The Number System (NS)
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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 two- and three-dimensional objects
7.G.B.6

Part 2 – Solve real-world and mathematical problems of two- and three-dimensional objects
7.G.B.6

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

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

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

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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. ■

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

Highlight and annotate me

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

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 x2 = p & x3 = 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 + b as 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 two-dimensional 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

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Apply the Pythagorean Theorem to Determine unknown side lengths in right triangles in two and three dimensions.
8.G.B.7 ■

Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.
8.G.B.8 ■

Know the formulas for the volumes of cones, cylinders, and spheres
8.G.C.9 ■

Know that numbers that are not rational are called irrational.
8.NS.A.1 ■

Use rational approximations of irrational Numbers to compare the size of irrational numbers
8.NS.A.2 ■

Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities.
8.SP.A.1 ■

Know that straight lines are widely used to model relationships between two quantitative variables.
8.SP.A.2 ■

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

Grades K–5	Kindergarten	5 Assessments
	Grade 1	4 Assessments
	Grade 2	4 Assessments
	Grade 3	5 Assessments
	Grade 4	6 Assessments
	Grade 5	6 Assessments
Grades 6–8	Grade 6	8 Assessments
	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: _____ **Grade:** _____

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

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