

All free videos

Good for all grades

Intro: Mental Math Using Number Bonds

https://greatminds.org/video_gallery/2242/play

Grades 2 -5, Intro: Introduction to Place Value Disks

https://greatminds.org/video_gallery/1186/play

Grades 2 - 5, Intro: Place Value Disks (Place Value Disks with Place Value Charts)

https://greatminds.org/video_gallery/1178/play

Grades K-2

[Addition and Subtraction with Five Groups](#)

Grades 3-5

Intro: Solving Word Problems with Tape Diagrams

https://greatminds.org/video_gallery?utf8=%E2%9C%93&query=tape+diagrams

Intro: Array and Area Models

https://greatminds.org/video_gallery?utf8=%E2%9C%93&query=area+models

Other Videos

Kindergarten

Module 1

[A Parent's Guide to Rekenreks](#) - source WSKG Public Media

[Model with a 10 Frame](#) - source WSKG

[How to Make a Rekenrek](#) - source WSKG

[Zero the Hero](#) - source WSKG

[Magic Math Fingers](#) - source WSKG

Module 2

[Shape Hunt](#) source WSKG

[Describing Relative Position](#) source WSKG

Module 3

[More Fewer Same](#) source WSKG

Module 4

[Number Partners to 10](#) source WSKG

[Number Bonds](#) source WSKG

[Using Number Bonds to Show Subtraction](#) source WSKG

Module 5

[Counting On](#) source WSKG

Module 6

First Grade

Module 1

[Mental Math Make a 10](#) source WSKG

[How to Solve a Story Problem](#) source WSKG

[1 Fact Family 8 Number Sentences](#) source WSKG

[Fact Family Photos](#)

Module 2

[Understanding Place Value](#)

Module 3

Module 4

[Modeling with Tape Diagrams](#) source WSKG

Module 5

[Shape Hunt](#) source WSKG

Second Grade

Module 1

[Tape Diagrams: Modeling 2-Digit Addition and Subtraction](#) WSKG

[Regrouping to subtract](#) WSKG

[Add within 20 by regrouping on a ten frame](#) Learnzillion

[Solve word problems by drawing bar models](#) Learnzillion

[Add within 100 using base ten blocks](#) Learnzillion

[Understand a word problem](#) Learnzillion

Module 2

[Solve addition problems using a number line](#) Learnzillion

[Solve addition story problems using an open number line](#) Learnzillion

[Measure with non standard units](#) Learnzillion

[Measure using a ruler](#) Learnzillion

[Find the difference in the length of two objects using addition ...](#) Learnzillion

[Measuring objects using whole, half, and quarter inches](#) Learnzillion

Module 3

[Number Forms](#) WSKG

[Count Objects by 5s, 10s, and 100s](#) Learnzillion

[Understanding place value](#) Learnzillion

[Model and write numbers using base ten blocks](#) Learnzillion

[Count objects in groups of ten](#) Learnzillion

[Understand the value of a number](#) Learnzillion

[Compare two 3-digit numbers by comparing number parts](#) Learnzillion

Module 4

[Tape Diagrams: Modeling 2-Digit Addition and Subtraction](#) WSKG

[Place Value Chart](#) WSKG

[Add up to four 2-digit numbers using place value](#) Learnzillion

[Add three-digit numbers with base ten blocks](#) Learnzillion

[Mentally add 10 or 100 visualizing base ten blocks](#) Learnzillion

[Explain addition using the commutative and associative properties ...](#) Learnzillion

Module 5

Module 6

[Foundation of Multiplication and Division](#) WSKG

[Recognize even and odd numbers by forming partners and equal ...](#) Learnzillion

[Use repeated addition to find the total number of objects in an array ...](#) Learnzillion

Module 7

[Compare picture graphs and bar graphs](#) Learnzillion

Module 8

[Distinguish between a.m. and p.m.](#) Learnzillion

[Tell time to the nearest 5 minutes using analog and digital clocks ...](#) Learnzillion

Third Grade

Module 1

[Interpret Products by Drawing Pictures](#) Learnzillion

[Interpret Products by Using Repeated Addition](#) Learnzillion

[Interpret Products Using Arrays](#) Learnzillion

[Solve Division Problems by Drawing Pictures](#) Learnzillion

[Interpret Division as an Unknown Factor Problem using arrays](#) Learnzillion

[Represent Multiplication Using Arrays](#) Learnzillion

[Understand the commutative property of multiplication in word problems](#) Learnzillion

[Find the missing quotient in a division problem](#) Learnzillion
[Understand multiplication problems: using equal groups](#) Learnzillion
[Solve word problems using the idea of equal groups](#) Learnzillion
[Solving two-step word problems using a model](#) Learnzillion
[Multiplication Fluency](#) WSKG
[Rounding: Nearest 10 or 100](#) WSKG
[Solving 2-Step Word Problems](#) WSKG

Module 2

[Identifying the start time, change of time, and end time in real-world elapsed time problems](#) Learnzillion
[Solving elapsed time word problems to the nearest hour](#) Learnzillion
[Solving elapsed time word problems to the nearest five minutes](#) Learnzillion
[Solving elapsed time word problems to the nearest minute](#) Learnzillion
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[Understand mass and how mass is measured](#) Learnzillion
[Find the mass of an object using a balance scale](#) Learnzillion
[Find the volume of liquids](#) Learnzillion
[Understand the value of a digit in a multi-digit number](#) Learnzillion
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[Round to the nearest ten or hundred in real world situations](#) Learnzillion
[Solve subtraction problems using a number line](#) Learnzillion
[Solve addition problems with numbers up to 1,000: regrouping ...](#) Learnzillion

Module 3

[Solve multiplication problems: using distributive property](#) Learnzillion
[Understand the commutative property of multiplication in word problems](#) Learnzillion
[Solve multiplication problems: using distributive property](#) Learnzillion
[Find the missing quotient in a division problem](#) Learnzillion
[Identify patterns on a multiplication chart](#) Learnzillion
[Multiply by multiples of 10 using number lines](#) Learnzillion
[Identify patterns on an addition chart](#) Learnzillion
[Identify patterns on a multiplication chart](#) Learnzillion
[Multiplying by Multiples of 10](#) Khan Academy

Module 4

[Counting unit squares to find area](#) Khan Academy
[Intro to area and unit squares](#) Khan Academy
[Cover the area of a shape using square units](#) Learnzillion
[Find the area of a square or rectangle by counting](#) Learnzillion
[Relate area to arrays](#) Learnzillion
[Find the area of a square or rectangle by counting unit squares](#) Learnzillion

[Relate area to arrays](#) Learnzillion

[Given the area, find missing side lengths of a rectangle](#) Learnzillion

Module 5

[Represent fractions in different ways](#) Learnzillion

[Write unit fractions: using shapes](#) Learnzillion

[Identify equivalent fractions using fraction models](#) Learnzillion

[Identify equivalent fractions using fraction strips](#) Learnzillion

[Identify equivalent fractions using a number line](#) Learnzillion

[Use fraction strips to generate equivalent fractions](#) Learnzillion

[Express whole numbers as fractions](#) Learnzillion

[Plot a unit fraction on a number line](#) Learnzillion

[Identify a fraction as a point on a number line by dividing the number ...](#) Learnzillion

[Place fractions on a number line](#) Learnzillion

[Plot fractions greater than one on a number line](#) Learnzillion

[Recognize equivalent fractions using area models](#) Learnzillion

[Recognize equivalent fractions using number lines](#) Learnzillion

[Compare unit fractions](#) Learnzillion

[Fractions](#) WSKG

[Fractions of a Number Line](#) WSKG

Module 6

[Draw bars on a graph](#) Learnzillion

[Measuring objects using whole, half, and quarter inches](#) Learnzillion

[Construct and interpret a line plot](#) Learnzillion

Module 7

[Find the perimeter of a square or rectangle by adding side lengths ...](#) Learnzillion

[Find the perimeter of a polygon with more than 4 sides](#) Learnzillion

[Find perimeter with missing side lengths](#) Learnzillion

[Use a chart to understand how rectangles can have the same ...](#) Learnzillion

Grade 4

Module 1

[Connecting the Standard Algorithm for Multiplication to Area Models](#) Engageny

[Area Model](#) WSKG

[Read and write numbers in expanded form](#) Learnzillion

[Read and write numbers in numeric form](#) Learnzillion

[Round in real-life situations](#) Learnzillion

[Round numbers to a specified place on a number line](#) Learnzillion

[Round numbers to the leading digit using a number line](#) Learnzillion
[Add using the standard addition algorithm](#) Learnzillion
[Solve multi-step word problems by organizing the data](#) Learnzillion

Module 2

[Making Sense of Money](#) WSKG
[Units of Measure](#) WSKG
[Recognize common units of measurement](#) Learnzillion
[Compare and convert customary units of length](#) Learnzillion
[Compare and convert metric units of length](#) Learnzillion
[Compare and convert customary units of weight](#) Learnzillion
[Convert measurements to solve distance problems](#) Learnzillion
[Convert a smaller metric unit to a larger unit](#) Learnzillion
[Select appropriate measurement conversions](#) Learnzillion
[Solve real world distance problems with unit conversions](#) Learnzillion

Module 3

[Partial Products](#) WSKG
[Model numbers using base ten blocks](#) Learnzillion
[Understand relationships between digits and their place value](#) Learnzillion
[Find all factor pairs of a number using a t-chart](#) Learnzillion
[Find all the factor pairs of a number using area models](#) Learnzillion
[Determine if a number is prime or composite using ...](#) Learnzillion
[Find the perimeter of a rectangle using an area model](#) Learnzillion
[Find missing side lengths using the formula for perimeter](#) Learnzillion
[Use area models to find the area of rectangles](#) Learnzillion
[Find the area of a rectangle using the standard formula](#) Learnzillion

Module 4

[Identify angles using angle characteristics](#) Learnzillion
[Measure full and half rotations](#) Learnzillion
[Introduction to protractors](#) Learnzillion
[Measure angles to the nearest degree with protractors](#) Learnzillion
[Compose and decompose angles](#) Learnzillion

Module 5

[Decomposing Fractions](#) WSKG
[Find the rule for a function machine using a vertical ...](#) Learnzillion
[Write fractions greater than one as mixed numbers](#) Learnzillion
[Write a fraction to describe part of a set](#) Learnzillion
[Compare fractions to a benchmark of one half using number lines ...](#) Learnzillion
[Add fractions by joining parts](#) Learnzillion

[Decompose fractions into unit fractions](#) Learnzillion
[Represent fractions as the sum of unit fractions using pictures ...](#) Learnzillion
[Add mixed numbers using an area model](#) Learnzillion
[Compare fractions with the same numerator: using the greater than ...](#) Learnzillion
[Use a fraction model for multiplication of fractions and whole numbers ...](#) Learnzillion
[Multiply fractions by whole numbers: using models](#) Learnzillion
[Create a line plot with fractions of a unit \(with like denominators ...\)](#) Learnzillion
[Solve problems by interpreting data on a line plot](#) Learnzillion

Module 6

[Convert fractions into decimals to the tenths place](#) :Learnzillion
[Convert fractions into decimals to the hundredths place](#) Learnzillion
[Convert decimals to fractions to the hundredths place using visual aids ...](#) Learnzillion
[Compare two decimals to the hundredths place using fraction models ...](#) Learnzillion

Module 7

Grade 5

Module 1

[Comparing decimal place value](#) Khan Academy
[Recognize place value relationships by multiplying and dividing by ten](#) Learnzillion
[Represent powers of 10 using whole number exponents](#) Learnzillion
[Write decimal in expanded form](#) Khan Academy
[Recognize place value relationships by multiplying and dividing by ten](#) Learnzillion
[Represent powers of 10 using whole number exponents](#) Learnzillion
[Decimals: Expanding Place Value](#) Khan Academy
[Rounding on a Vertical Number Line](#) 5th Grade Videos
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[Dividing Decimals](#) 5th Grade Videos
[Use an area model for multiplication of two-digit numbers by two-digit](#) Learnzillion
[Compare the value of the digits in a multi-digit whole number](#) Learnzillion
[Understand the value of a digit using a place-value chart](#) Learnzillion
[Determine the value of a digit in the thousandths place](#) Learnzillion
[Understand the value of a digit in a decimal number](#) Learnzillion
[Understand that place value increases ten times with each shift to the ...](#) Learnzillion
[Understand that a digit in one place is 1/10 the value of the digit to the ...](#) Learnzillion
[Explain patterns in zeros when multiplying by a power of ten ...](#) Learnzillion
[Multiply decimal numbers by a power of ten](#) Learnzillion

Module 2

[Multiplying multi digit numbers](#) Khan Academy
[Multiply decimals by whole numbers by using an area model](#) Learnzillion
[Multiplying decimals by multi- digit whole numbers](#) 5th grade videos

[Solve real world distance problems with unit conversions](#) Learnzillion

[Divide 4-digit dividends by 2-digit divisors by setting up an equation](#) Learnzillion

Module 3

[Add fractions with unlike denominators by creating area models](#) Learnzillion

[Add fractions with different denominators using fraction bars ...](#) Learnzillion

[Add fractions with unlike denominators using fraction bars ...](#) Learnzillion

[Add and subtract fractions with like denominators](#) Learnzillion

[Add and subtract fractions with unlike denominators](#) Learnzillion

Module 4

[Understanding fractions as division](#) Khan Academy

[multiplying unit fractions and whole numbers](#) Khan Academy

[Multiplying 2 fractions \$5/6 \times 2/3\$](#) Khan Academy

[Multiplying fractions by whole numbers](#) Khan Academy

[Understand fractions as division](#) Learnzillion

[Multiply by fractions: using repeated addition](#) Learnzillion

[Multiply fractions by fractions: using a sequence of operations ...](#) Learnzillion

[Multiply fractions by fractions: finding a part of a part](#) Learnzillion

[Understand how numbers scale using multiplication and visual ...](#) Learnzillion

[Predict the product of multiplying a fraction less than one by a whole ...](#) Learnzillion

[Multiply a fraction by a fraction using visual representations](#) Learnzillion

[Multiply mixed numbers by mixed numbers using visual](#) Learnzillion

[Draw pictures for division of unit fractions](#) Learnzillion

[Solve word problems involving division of whole numbers by fractions ...](#) Learnzillion

[Represent decimal values to the thousandths using base ten blocks ...](#) Learnzillion

[Write decimals in expanded form](#) Learnzillion

[Write decimals in expanded notation](#) Learnzillion

[Round numbers to the nearest whole number](#) Learnzillion

[Round decimals to the nearest tenth](#) Learnzillion

[Round decimals to the nearest hundredth](#) Learnzillion

[Add decimals using base ten blocks](#) Learnzillion

[Multiply decimals by whole numbers by using an area model ...](#) Learnzillion

[Use an area model to multiply decimals by decimals](#) Learnzillion

[Divide decimals using knowledge of multiplication](#) Learnzillion

Module 5

[Identify the difference between a square unit and a cubic unit ...](#) Learnzillion

[Understanding volume](#) Learnzillion

[Find volume by counting cubes](#) Learnzillion

[Count unit cubes in a rectangular prism](#) Learnzillion

[Identify and label three-dimensional figures](#) Learnzillion

[Recognize that volume is additive by finding the volume of a 3D figure ...](#) Learnzillion

[Find volume by multiplying the area of the base by the height ...](#) Learnzillion

[Use volume to understand the associative property of multiplication ...](#) Learnzillion

[Find the missing dimensions of 3-D figures using the volume formula ...](#) Learnzillion

[Use multiplication \(\$V = l \times w \times h\$ \) to find the volume of a solid figure ...](#) Learnzillion

[Find the volume of complex rectangular prisms](#) Learnzillion

[Find the area of a rectangle with fractional side lengths by tiling ...](#) Learnzillion

Module 6