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
Understand multiplication problems: using equal groups
Solve word problems using the idea of equal groups
Solving two-step word problems using a model
Multiplication Fluency
Rounding: Nearest 10 or 100
Solving 2-Step Word Problems

Module 2
Identifying the start time, change of time, and end time in real-world elapsed time problems
Solving elapsed time word problems to the nearest hour
Solving elapsed time word problems to the nearest five minutes
Solving elapsed time word problems to the nearest minute
Understand volume and how volume is measured
Understand mass and how mass is measured
Find the mass of an object using a balance scale
Find the volume of liquids
Understand the value of a digit in a multi-digit number
Find benchmark numbers using a number line
Round to the nearest ten or hundred in real world situations
Solve subtraction problems using a number line
Solve addition problems with numbers up to 1,000: regrouping...

Module 3
Solve multiplication problems: using distributive property
Understand the commutative property of multiplication in word problems
Solve multiplication problems: using distributive property
Find the missing quotient in a division problem
Identify patterns on a multiplication chart
Multiply by multiples of 10 using number lines
Identify patterns on an addition chart
Identify patterns on a multiplication chart
Multiplying by Multiples of 10

Module 4
Counting unit squares to find area
Intro to area and unit squares
Cover the area of a shape using square units
Find the area of a square or rectangle by counting
Relate area to arrays
Find the area of a square or rectangle by counting unit squares
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
Add decimals using base ten blocks Learnzillion
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 x 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
Use volume to understand the associative property of multiplication
Find the missing dimensions of 3-D figures using the volume formula
Use multiplication (V = l x w x h) to find the volume of a solid figure
Find the volume of complex rectangular prisms
Find the area of a rectangle with fractional side lengths by tiling

Module 6