Mathematics Resources

The 10 Times Tables
L014768,SV
0:59 min PJ 2017 2453
Bitext: Basic Math Series - This short video explains the 10 times tables.

The 2 Times Tables
L0147696,SV
1:11 min PJ 2017 2453
Bitext: Basic Math Series - This short video explains the 2 times tables.

2D Shapes
L014768,SV
1:05 min PJ 2017 2453
Bitext: Basic Math Series - This short video explains about two dimensional shapes.

The 5 Times Tables
L0147703,SV
1:19 min PJ 2017 2453
Bitext: Basic Math Series - This short video explains the 5 times tables.

Adding and Subtracting Fractions with the Same Denominators
L0146129,SV
16:12 min PJ 2010 2453
Math Park: The Fractions and Decimals Series - Computer graphics provide a deeper understanding about adding fractions with the same denominator; comedy sketches and games reinforce the concept of adding and subtracting fractions; a take-off on TV game shows provides a lesson in problem-solving with fractions: when to add or subtract.

Adding and Subtracting Large Numbers:
Common Core 4 Kids
L0114881,SV
5:07 min P 2016 2453
Common Core Math 4 Kids Series - Adding and subtracting large numbers is what we teach in this fun animated video. Students fly in space as they learn about how to add and subtract three digit numbers. *Pause the video at anytime to have the kids answer any questions.

Adding Multiple Digit Numbers:
Common Core 4 Kids
L0114882,SV
5:42 min P 2016 2453
Common Core Math 4 Kids Series - In this video we teach the math behind adding 3 numbers at a time. Adding multiple digits can be hard but our video helps kids learn the concepts needed for success. This video is a great intro video for this topic. *Pause the video at anytime to have the kids answer any questions.

Addition and Commutative Property:
Common Core 4 Kids
L0114873,SV
4:51 min P 2016 2453
Common Core Math 4 Kids Series - Kids will learn about addition for first grade and also about the commutative property in this fun video. Kids need to know that in addition problems you can switch numbers around and still get the same answer. Dive in our fish tank and learn with us in 1st Grade.

Addition and Subtraction
L0154954,SV
22:46 min PJ 2009 2453
Teaching Systems Arithmetic Series - Students will learn the ins and outs of adding and subtracting numbers. Along the way, they’ll be introduced to estimating and problem-solving. *With plenty of on-screen graphics and examples, learning will be as easy as pie. Topics include: Addition, Subtraction, Estimating, and Problem-Solving Skills.

Addition - One Plus One:
Common Core 4 Kids
L0114864,SV
2:07 min P 2016 2453
Common Core Math 4 Kids Series - Come learn Addition for little kids in this fun video where we add one and see what numbers are hiding. Come join and learn with us!

Algebra
L0156336,SV
3:06 min JIS 2016 2453
Real Life Math Series - Learn more about algebra using a real life situation.

Algebra Básica
L0155181,SV
27:32 min JIS 2016 2453
Standard Deviants Español Pre-Algebra Series - This program continues the discussion of the number line and includes a review of intervals and inequalities. Then it’s the first steps into basic algebra: constants, variables, equations, and a special surprise appearance by X.

Algebra Equations
L0154999,SV
22:39 min JIS 2011 2453
Teaching Systems Pre-Algebra Series - Topics in this video include: X axis, Y axis, coordinates, origin, variables, absolute values, working with graphs, and quadrants.

Algebra Mechanics
L0154981,SV
28:53 min JIS 2010 2453
Teaching Systems Algebra Series - In this program we are going to raise the hood and show you how algebra works! With some things in algebra, it’s just a step-by-step process to get to where you want to go and that’s exactly what we are going to work on today, the mechanics of algebra! Topics Include: Rule of Equality, Solving Equations with Variables on Both Sides, Absolute Value, Simplifying Expressions, and Solving Inequalities.

Algebraic Variables and Index Laws
L0161296,SV
4 min JIS 2014 2453
This clip defines the mathematical concepts of constants and variables before going on to apply index laws to variables using positive integer indices and the zero index. Simplifying equations by adding, subtracting, multiplying, and dividing indices is demonstrated. Ideal for introducing or reinforcing concepts.

All Sorts of Animals
P 999597,KT 2018
Included in this kit are 3 baskets and all sorts of animals.

Angles 101
L0154989,SV
25:24 min JIS 2014 2453
Teaching Systems Geometry Series - Topics covered in this video: reflexive property, substitution property, transitive property, the parallel postulate, corresponding angles, alternate interior and exterior angles, same-side interior angles, and corresponding angle postulate.

Angles and Parallel Lines
L0177768,SV
2:06 min S 2017 2453
Bitext - Secondary Math Series - This short video explains about angles and parallel lines.

Angles, Polygons, and Circles
L0154966,SV
32:12 min JIS 2009 2453
Teaching Systems Fundamental Math Series - Students will figure out the area of everyday shapes like circles, squares, rectangles, triangles, and polygons. After that we will be introduced to cones, prisms, and cylinders. Topics include: Angles, Triangles, Polygons, Circles, and Volume.
Arrays
L0156218,SV
4:52 min PJ 2016 2453
A World Without Maths Series - Learn the basics of arrays.

Ask a Silly Question
CBC1183,SV
44:42 min ISA 1998
Witness Series - Opinion polls are very influential, determining everything from how we are governed to what we eat for breakfast. But this is a completely unregulated industry, subject to human frailty and open to abuse. This oftbeat and often hilarious documentary uses bogus polls to show how easily people will comment on subjects they clearly know nothing about. Viewers are then taken behind the scenes of the market research process. We see what safeguards pollsters can use to prevent skewing of results, but also how results can be predetermined in the research process.

Associative Property of Addition : Common Core 4 Kids
L0114874,SV
2:37 min P 2016 2453
Common Core Math 4 Kids Series - Kids will love to go into Outer Space and learn to add 3 whole numbers using the associative property of addition. First grade kids will learn how to use doubles and partners of ten to answer equations.

Auberges de campagne: Style et maisons
(Homes by Design in French)
L118449,SV
24:35 min S 2007 2453
Style et maisons (Homes by Design in French) Series - Parfois, on préserve les maisons pour leur beauté architecturale en les convertissant en auberges de campagne. 1. Dans le village de Vallvidera à Barcelone se trouve un élégant manoir néo-classique construit par une femme cubaine en 1900. La nouvelle propriétaire Rosa María Escotet l’a restauré avec soin en petit hôtel et espère qu’il va devenir à nouveau une maison privée. 2. L'Hôtel Claramount et Spa à Picton en Ontario a su recréer le jardin de campagne typiquement anglaise dans un contexte de pension. 3. La conception de l’architecte Doran Musgrove du Morningside Bed and Breakfast, juste à l’extérieur de Victoria en Colombie Britannique, s’harmonise parfaitement avec le nature rustique de son environnement et démontre l’influence des principes architecturaux de Wright sur l’architecte.

Balléline, The: Footnotes: The Classics of Ballet with Frank Augus
L116839,SV
28:30 min JIS 1995 2453
Footnotes: The Classics of Ballet with Frank Augus Series - This program examines the importance of the Ballerina from a unique perspective.

La Ballerine: Histoire des grands ballet (Footnotes series in French)
L118433,SV
27:24 min JIS 1995 2453
Histoire des grands ballet (Footnotes series in French) - Ce programme examine l’importance de la ballerine d’un point de vue unique.
Beyond Answers: Exploring Mathematical Practices with Young Children
999650,BK
E 2017 2769

The Standards for Mathematical Practice are written in clear, concise language. Even so, to interpret them and visualize what they mean for your teaching practice isn’t always easy.

In this practical, easy-to-read book, Mike Flynn provides teachers with a clear and deep sense of these standards and shares ideas on how best to implement them in K-2 classrooms.

Each chapter is dedicated to a different practice. Using examples from his own teaching and vignettes from many other K-2 teachers, Mike does the following: Invites you to break the cycle of teaching math procedurally; demonstrates what it means for children to understand—not just do—math; explores what it looks like when young children embrace the important behaviors espoused by the practices.

The book’s extensive collection of stories from K-2 classroom provides readers with glimpses of classroom dialogue, teacher reflections, and examples of student work. Focus questions at the beginning of each vignette help you analyze the examples and encourage further reflection.

Beyond Answers is a wonderful resource that can be used by individual teachers, study groups, professional development staff, and in math methods courses.

Beyond Multiplication and Division
L0154963,SV
39:21 min JIS 2009 2453

Teaching Systems Fundamental Math Series - Students will revisit multiplication and division and travel beyond the basics. Gear up for a challenge in factorization, exponential notation, and solving multiple-digit problems. You’ll learn how to make sense of order of operations, square roots, exponents, and justifying solutions. So hold on to your hats and prepare to multiply and divide. Topics include: Number Sense; Comparing Fractions, Decimals, and Percents; Squares and Square Roots; Adding, Subtracting, Multiplying, and Dividing Decimals; Adding, Subtracting, Multiplying, and Dividing Fractions; and Prime Factors.

Big Burp Monster at the Library
CBC2804,SV
12:30 min PJ 2011

Monster Math Squad Series - The Monstermathia library is being shaken to its foundation as Big Burp Monster searches for a book! The Monster Math Squad has to learn about NUMBERS to help Miss Shush Monster, the librarian, find the book Big Burp Monster is looking for in the library. Just as the Squad gets close, Big Burp Monster nearly burps the numbers off the shelves! The Squad has to get everything straightened out before he can finally get his book, How to Burp Really Loud.

Yikes!*Word of the Day: NUMBERS.*Math Concept: Using numbers to represent objects.

Big Monster Mess
CBC2805,SV
12:30 min PJ 2011

Monster Math Squad Series - Mr. Cranky Pants Monster is crankier then ever! Mess Monster has been in Mr. Cranky Pants Monster’s store and turned the place upside down! The call comes into the Monster Math Squad to help sort things out while Mr. Cranky Pants Monster chases away Mess Monster! At the store, the Squad learns all about PAIRS as they sort out the sock supply and then head out to match up the Horned Hoots and get them back into their cages.*Word of the Day: PAIRS. Math Concept: Sorting items into pairs.

The Big Stink
CBC3009,SV
12:30 min PJ 2011

Monster Math Squad Series - The Squad is called by Stinky Feet Monster to help him find the ingredients for his annual footbath. Using the Stinky Feet Manual, they discover the various ingredients are located at the top of a mountain, at the bottom of a bush, etc. Learning about TOP and BOTTOM points them in the right direction, and soon they have put together all the ingredients for one seriously stink foot bath!*Words of the Day: TOP and BOTTOM.*Math Concept: Top is the highest, Bottom is the lowest.
Bitesize: Basic Math
For descriptions see individual titles:
The 10 Times Tables
The 2 Times Tables
2D Shapes
The 5 Times Tables
Comparing Shapes
How can You Transform a Shape
How Do You Order by Size?
How Do You Work out the Area of a Triangle?
How Much Have I Spent?
How Old Is Math?
How to Add and Subtract Fractions
How to Add and Subtract Numbers in Your Head
How to Calculate Percentage
How to Calculate Volume
How to Collect Data
How to Convert Between Ratios, Fractions, and Percentages
How to Count with Tens and Ones
How to Divide Using an Array
How to Find the Mean, Median, Mode and Range
How to Multiply and Divide by 0, 1, 10, 100
How to Multiply Fractions
How to Multiply in Your Head
How to Order Numbers
How to Partition a Number
How to Round Decimal Numbers
How to Round Numbers
How to Simplify Fractions
How to Solve Missing Number Problems
How to Use Column Subtraction
How to Use Directions and Turns
How to Use Estimation to Check Your Answers
How to Use Simple Data Tables
How to Work out an Area
How to Work out Division with Remainders
Prime Numbers
Short Division Using Written Methods
Using Number Lines for Division
What Are 3D Shapes?
What Are Coordinates?
What Are Decimals?
What Are Factors?
What Are Fractions?
What Are Imperial Measurements?
What Are Metric Measurements?
What Are Multiples?
What Are Negative Numbers?
What Are Nets?
What Are Number Bonds?
What Are Odd and Even Numbers?
What Are Parallel and Perpendicular Lines?
What Are Square and Cube Numbers?
What Are the Different Types of Data Visualization?
What Are the Parts of a Circle?
What Are the Properties of 3D Shapes?
What Are the Types of a Triangle?
What Are Unit and Mixed Fractions
What Is a Number Line?
What Is a Number Sequence
What Is a Ratio?
What Is Addition?
What Is an Analogue and Digital Time?
What Is an Angle?
What Is an Equation?
What Is Column Addition?

Mathematics Resources
What Is Currency?
What Is Division?
What Is Financial Decision Making?
What Is Percentage?
What Is Place Value?
What Is Probability?
What Is Subtraction?
What Is Tessellation?
What Is the Order of Operations?
What Is the Perimeter?
What Is Volume?
What Makes a Shape Symmetrical?

Bitesize - Computing
For descriptions see individual titles:
Rates of Change: Straight Line or Curve

Bitesize - Secondary Math
For descriptions see individual titles:
Angles and Parallel Lines
Natural Sequence
Pythagoras' Theorem
Solving Algebraic Problems
Solving Geometric Problems
Solving Graphical Problems
Solving Number Problems
Solving Statistical Problems
Transformation of a Curve
Transformation of Curves
Wages and Salaries
What Is Standard Form?

Bivariate Data and Pool Use
L0161297,SV
6:57 min JIS 2015 2453
This clip investigates how the number of people at the local pool changes over the course of a day. The data is displayed in graphs showing pool patron numbers during each two-hour time period. Follow along as lines and curves of best fit are drawn for the data and used to interpret the data. This clip explores parabolas, coefficient of determination, interpolation, and extrapolation.

Botley: The Coding Robot
999671,KT
P 2018
Botley Robot Teaches Coding without Screens
because Botley is programmed via a handheld remote.

Botley will:
- Detect objects - and move around them!
- Follow looping commands
- Navigate obstacle courses
- Follow black lines

Teach and encourage:
- Basic coding concepts
- Advanced coding concepts like if/then logic
- Critical thinking
- Spatial concepts
- Collaboration and teamwork

Break Apart Line Addition: Common Core 4 Kids
L0114866,SV
3:08 min P 2016 2453
Common Core Math 4 Kids Series - Come learn what numbers are hiding in the number 5 with our introduction to the break apart line. Students will learn how the number 5 is made up of other numbers.
Mathematics Resources

Bucking Monster Mayhem
CBC3108,SV
12:30 min PJ 2011
Monster Math Squad Series - The Squad offers to help some little monsters to get a bucking monster toy bucking! They learn that the ride requires three coins to make it start, but the little monsters are only putting in two. That’s not enough! So they put in enough coins, but the bucking monster still won’t buck! Now what’s the problem? It turns out that three monsters trying to ride is too many. But one monster is not enough the ride bucks like crazy! So if three is too many and one is not enough, the correct number is TWO! Soon the monsters are taking turns having fun on the bucking monster. Howl!*Words of the Day: TOO MANY and NOT ENOUGH.*Math Concept: The right amount of something is required to make the toy work correctly.

Building a Math-Positive Culture: How to Support Great Math Teaching in Your School
999661,BK
E 2016
Preparing students for their future calls for fresh thinking about mathematics teaching and learning. Shifting the mathematics program in a school or school system is an ambitious task that can yield huge benefits for students.

Author Cathy L. Seeley offers an overview of what an effective and successful mathematics program might look like at any level in the K-12 system and what a leader can do to support improvement toward that vision. It considers The needs and abilities of the students. The nature of the mathematics we want them to learn. The kinds of classrooms where that learning can best take place. The culture of schools where such classrooms thrive. The first steps in a process by which leaders can create these schools

A Bungle at Barks and Stench
CBC2785,SV
12:30 min PJ 2011
Monster Math Squad Series - Mr. Cranky Pants Monster needs the Squad to finish putting away some toys for him, but he warns them the toys can be very fussy and hard to put away properly. The y soon discover that Monster Marbles are very particular about how they are put into a container. If they’re not placed in a particular order, they jump out of their container! Luckily, the squad first put the container in its correct place on the shelf, and then put the marbles in their container correctly. But just when the marbles are happy, a Mr Cranky Pants Monster Toy gets very fussy! Fortunately, they are able to use place to determine the toy just wants to be in its box. That’s the place for that!*Word of the Day: PLACE.*Math Concept: A place for everything, and everything in its place.

Calculating Duration across Time Zones
L0161281,SV
5:24 min JIS 2014 2453
Calculating flight distances within and across time zones is a common need. This clip investigates the arrival and departure times of someone traveling within and across times zones in Australia and Asia, using both 12-hour and 24-hour time. Ideal for applying mathematical concepts to real-world situations.

Calculating Profit: Earning Your Bread and Butter
L0161168,SV
4:26 min S 2014 2453
Numbers and Algebra Series - Our presenter is interested in running her own cafe and decides to see what profit can be made from selling sandwiches. She works through the individual costs of sandwich ingredients to compare against cafe sandwich prices, then calculates her potential profit (percentage). She quickly learns there’s more to her costs than just ingredients. Ideal for applying mathematical concepts to real-world situations.

Calculating the Area of Rectangles
L0161218,SV
3:39 min JI 2017 2453
Area is a common measurement, but knowing what it is and how to calculate it correctly is essential. This Miniclip introduces the concept of area and the different methods of calculating it for rectangles. This clip uses simple illustrated explanations, making it ideal for students of varied abilities.

Calculating the Perimeter of Rectangles
L0161219,SV
5:23 min JI 2017 2453
Introducing perimeter to students can be a challenging task, but with this Miniclip students will discover what a perimeter really is, when we might use it, and the different ways it can be calculated. This is a simple and straightforward approach to a challenging concept that caters to students of varied abilities.

Capacity
L0161225,SV
6:10 min JIS 2016 2453
Converting Metric Units Series - How do we measure the space that something takes up? What is the difference between capacity and volume? Discover the answers to these questions and see fantastic real-world examples that illuminate the importance of appropriate unit choice with this Miniclip. Students will learn about the correct operations to convert between milliliters, liters, kiloliters, and megaliters and will understand how to connect each unit to its correct abbreviation.

Casse-Noisette: Histoire des grands ballet (Footnotes series in French)
L118422,SV
27:16 min JIS 1995 2453
Histoire des grands ballet (Footnotes series in French) - Choreographié par Petipa, Cecchetti, Ivanov (1892)/Musique de P. Tchaïkovski. Un échantillon de chaque saison de vacances, CASSE-NOISETTE est de loin le ballet le plus populaire et le plus connu de tous les temps.

CBC News
For descriptions see individual titles:
Students use math to make street crossing safer

CBC Short Docs
For descriptions see individual titles:
Numbers Guy

Cendrillon: Histoire des grands ballet (Footnotes series in French)
L118428,SV
27:17 min JIS 1995 2453
Histoire des grands ballet (Footnotes series in French) - Chorégraphié par Petipa, Cecchetti, Ivanov (1893)/Musique par B. Fitinghoff-Schell. Ce ballet populaire basé sur le conte de fées de Perrault est devenu la pierre angulaire de la croissance et du développement de la Royal Ballet de Londres.

Chaos, Science and the Unexpected
CBC908,SV
45:57 min SA 1990
The Nature of Things Series - This documentary is an in-depth look at how supercomputers and computer graphics have opened up a new vista for scientists as they seek to plot and predict the shapes and forms of nature. Scientists and mathematicians are now using computer graphics to produce visual representations of natural phenomena, to determine what is predictable and what is random to explore that state called chaos that lies at the borderline between these two extremes.
Charly and Max get involved
For descriptions see individual titles:
Digging out a good wage
The early bird gets the- cans
A hockey stick in a haystack
Max Co. Snow Removal
A ton of money
When eyes are bigger than the wallet
A winning recipe

Cinderella: Footnotes: The Classics of Ballet with Frank Augus
L116822,SV
27:16 min JIS 1995 2453
Footnotes: The Classics of Ballet with Frank Augus Series - Choreographed by Petipa, Cecchetti, Ivanov (1893)/Music by B. Fitinghof-Schell. This popular ballet was based on Perrault's classic fairy tale and became the cornerstone of the growth and development of The Royal Ballet in London.

Common Core 3rd Grade Language
For descriptions see individual titles:
Common Core 3rd Grade Math:
Understanding Bar Graphs

Common Core 3rd Grade Math: Understanding Bar Graphs
L0143944,SV
13:08 min P 2017 2453
Common Core 3rd Grade Language Series - In this Common Core-compliant program, students are introduced to bar graphs. What are bar graphs used for? How do we plot and interpret data on bar graphs? The answers to these questions are covered with detailed graphics, diagrams, and exciting video, as well as on-screen multiple-choice reviews at the end of each segment, to reinforce important concepts and make learning fun.

Common Core Math 4 Kids
For descriptions see individual titles:
Adding and Subtracting Large Numbers: Common Core 4 Kids
Adding Multiple Digit Numbers: Common Core 4 Kids
Addition and Commutative Property: Common Core 4 Kids
Addition - One Plus One : Common Core 4 Kids
Associative Property of Addition : Common Core 4 Kids
Break Apart Line Addition: Common Core 4 Kids
Comparing Numbers 1st Grade: Common Core 4 Kids
Counting by 10's to 100: Common Core 4 Kids
Counting from 10 to 20: Common Core 4 Kids
Counting Ten Numbers Mailbox: Common Core 4 Kids
Counting to Ten: Common Core 4 Kids
Counting to Ten with Objects: Common Core 4 Kids
Division Basics: Common Core 4 Kids
Division Vocabulary : Common Core 4 Kids
Double Digit Addition Worksheet Video: Common Core 4 Kids
Doubles Addition Machine: Common Core 4 Kids
Learn Colors for Kids: Common Core 4 Kids
Learning Money Race : Common Core 4 Kids
Length Word Problem: Common Core 4 Kids
Line Plots: Common Core 4 Kids
Long Division : Common Core 4 Kids
Long Division with Remainders: Common Core 4 Kids
Math Mountain Introductions: Common Core 4 Kids
Months of the Year: Common Core 4 Kids
More and Fewer: Common Core 4 Kids
Multiplication Commutative Property: Common Core 4 Kids
Multiplication Relations: Common Core 4 Kids
Multiplication Vocabulary: Common Core 4 Kids
Picture Graphs : Common Core 4 Kids
Place Value Tens and Ones: Common Core 4 Kids
Place Value with Grouping: Common Core 4 Kids
Shape Vending Machine: Common Core 4 Kids
Shapes 2nd Grade: Common Core 4 Kids
Shapes for Kids: Common Core 4 Kids
Skip Counting and Hundreds Chart: Common Core 4 Kids
Skip Counting by 2: Common Core 4 Kids
Solving Word Problems Addition: Common Core 4 Kids
Subtraction with Regrouping Worksheet Video: Common Core 4 Kids
Teenage Numbers: Common Core 4 Kids
Telling Time Introduction to Hands: Common Core 4 Kids
Time to the Half Hour: Common Core 4 Kids
What is a Digit?: Common Core 4 Kids
Word Problems 1st Grade : Common Core 4 Kids
Word Problems Subtraction: Common Core 4 Kids

Comparing and Ordering Fractions
L0146126,SV
16:14 min PJ 2010 2453
Math Park: The Fractions and Decimals Series - Exploring strategies for comparing fractions using visual representations and standard form; putting fractions in order from least to greatest and greatest to least.

Comparing Fractions
L0146125,SV
18:25 min PJ 2010 2453
Math Park: The Fractions and Decimals Series - More exploration of the relationship between the numerator and denominator; looking at different visual representations of the same fraction; comparing fractions with the same numerator but different denominator (one-fourth and one-eighth).

Comparing Numbers 1st Grade: Common Core 4 Kids
L0114896,SV
4:35 min P 2016 2453
Common Core Math 4 Kids Series - Students learn about comparing numbers using Greater Than, Less Than and Equal to in this fun video. We not only help students learn to read from left to right but also recognize the symbols and use place value blocks to better understand teen numbers. Beware the Alligator!
Comparing Shapes
L0147689,SV
1:48 min PJ 2017 2453

Bitesize: Basic Math Series - This short video explains the differences between polygons.

Congruence and Similarity in Plane Shapes
L0161262,SV
4:39 min JIS 2014 2453

Our narrator is busy constructing a playground. Follow along as she goes beyond practical demonstrations to mathematically prove that she is creating sunshade shapes that are congruent or similar to the equipment they are covering. By applying logical reasoning, she is able to work through her proofs step by step. Ideal for applying mathematical concepts to real-world situations.

Congruent Shapes and Transformations
L0161283,SV
4:51 min JIS 2014 2453

Footnotes: The Classics of Ballet with Frank Augus Series

Our narrator is planning the layout of a new playground. Follow along as she determines whether two figures are congruent after transformations (translation, reflection, rotation). Ideal for introducing or reinforcing concepts.

Converting Metric Units
L0154967,SV
28:24 min JIS 2009 2453

Teaching Systems Fundamental Math Series - Welcome to the fabulous world of the coordinate plane! You'll learn how to plot ordered pairs, become familiarized with quadrants, and meet the x and y-axis. These handy rules will make working with planes a breeze. Topics include: Coordinate Geometry Basics, The Midpoint Formula, The Distance Formula, Slope, Graphing Translations, and Sketching Solids.

Coppelia: Footnotes: The Classics of Ballet with Frank Augus
L116823,SV
27:12 min JIS 1995 2453

Footnotes: The Classics of Ballet with Frank Augus Series - Choreographed by Arthur Saint-Leon (1870) / Music by Leo Delibes. The czardas were first introduced into ballet and after this, national and folk dances became very popular. Coppelia was also one of the first ballets to have a doll come to life.

Coppelia: Histoire des grands ballet (Footnotes series in French)
L118427,SV
27:22 min JIS 1995 2453

Histoire des grands ballet (Footnotes series in French) - Choreographié par Arthur Saint-Léon (1870) / Musique de Leo Delibes. Les czardas ont été abordés dans le ballet pour ensuite devenir des danses folkloriques nationales très populaires. COPPÉLIA a également été l'un des premiers ballets à nous faire voir une poupée prendre vie.

Counting and Sorting Activities
204047,KT

Use play to build number sense and recognition and practice counting and sequencing.

Contents:

Shake and Reveal: Counting Cards
Students count all the way to 10 using fun visual cues like chocolate chips, a giraffe's spots and more! Just slide a card into the window box and give it a shake. Then watch as the permanently enclosed magnetic shavings complete the illustration.

Nesting and Sorting Barns
Students will match-and-stack set of 6 stacking barns and 6 wooden animals pairing the pieces by size and number for exciting first-concepts practice. Colourful barns feature counting pictures on the back walls.

Great for hand-eye coordination; concepts of color, size, and number; counting; problem solving; narrative thinking; and creative play.

Also includes a variety of counters, wire baskets and plastic containers.

Counting by 10's to 100: Common Core 4 Kids
L0114861,SV
1:36 min P 2016 2453

Counting Core Math 4 Kids Series - Come learn to count to 100 by 10s in this fun video for kids. Students learn to count by 10 following the blocks on the train. Counting by 10 is an essential skill kids need to know before moving on to other math concepts. Enjoy the video and please share the website with others.

Counting from 10 to 20: Common Core 4 Kids
L0114862,SV
1:39 min P 2016 2453

Common Core Math 4 Kids Series - Learn to count from 10 to 20 for Kindergarten kids video. Join us in our fish tank to learn values of numbers from 10 to 20.

Counting Ten Numbers Mailbox: Common Core 4 Kids
L0114852,SV
4:46 min P 2016 2453

Common Core Math 4 Kids Series - In this video the students not only learn to count to ten but also recognize the numbers. The kids help the character deliver letters using what they know about numbers. This is a great video for Preschool and Kindergarten.

Counting to Ten: Common Core 4 Kids
L0114851,SV
2:03 min P 2016 2453

Common Core Math 4 Kids Series - Kids in preschool and Kindergarten learn the numbers in this fun video counting to ten. They fly through space with a fun character that teaches them the numbers. Come learn with us!

Counting to Ten with Objects: Common Core 4 Kids
L0114853,SV
1:39 min P 2016 2453

Common Core Math 4 Kids Series - In this video kids learn to count to ten with both numbers and objects. This is a great video for Preschool and Kindergarten.

Critical Thinking: Learn Through Play
999614,KT

This kit contains two games that students can play to reinforce critical thinking and fine motor skills.

Dolphin Balancing Game
Students will roll the dice to determine which colour needs to be stacked next while making sure the dolphin doesn't wobble over!

The brightly coloured rings can be stacked on top of each other but also, the smaller rings can be hidden inside the bigger ones. The tactile wooden pieces help to build colour recognition, construction skills and motor skills.
Balancing Chairs

This set of wooden, coloured chairs is an ideal challenge to encourage young students to build, balance, sort and select.

Dance Integration: 36 Dance Lesson Plans for Science and Mathematics

204050,BK

Dance Integration offers 36 K-5 lesson plans that use dance learning to bring mathematics and science curriculums to life.

These plans have proven to improve literacy in dance, mathematics, and science.

Dancer's Story, The: The National Ballet of Canada

L115985,SV

59:31 min S 2002 2453

This is a choreographed documentary weaving past with present using the vocabulary of dance. In celebration of the 50th anniversary of the National Ballet of Canada, a sampling of five generations of dancers gathers at the ballet barre. THE DANCERS’ STORY is a blend of novel documentary with an abundance of freshly filmed performance.

Le Danseur: Histoire des grands ballet (Footnotes series in French)

L118432,SV

27:16 min JIS 1995 2453

Histoire des grands ballet (Footnotes series in French) - Ce programme examine le développement, l'importance et l'évolution du rôle du danseur au travers de l'histoire du ballet avec un accent particulier sur Nijinsky et Nureyev.

Les danseurs racontent (The Dancer's Story)

L118416,SV

55:03 min S 2002 2453

LES DANSEURS RACONTENT est un documentaire chorégraphié où le passé se lie au présent par le langage de la danse. Pour fêter le 50e anniversaire de la compagnie, un groupe de danseurs représentant cinq générations successives se réunissent à la bâne.

Dash and Dot Challenge Cards

999693,KT

PJ

Please note This kit contains ONLY the challenge cards. You will also need Dash and Dot robots and the Blockley app.

This box set contains 72 full-colour, illustrated challenge cards that will provide 100’s of hours of learning for classrooms, after-school clubs, libraries, technology labs, maker spaces, and at home.

Each card provides a fun and engaging challenge that invites students to practice one of the six fundamental coding concepts: sequences, loops, events, conditionals, functions, and variables.

Days, Weeks, Years

L0146067,SV

1:07 min P 2017 2453

Little Smart Planet Series - Learn when day and night starts, how many days there are in a week and months in a year. You’ll love this video!
Diaghilev’s Ballets Russes: Footnotes: The Classics of Ballet with Frank Augus
L116824,SV
28:18 min  JIS   1995  2453

Footnotes: The Classics of Ballet with Frank Augus Series - Ballets include Spectra de la Rose (1911), Petrushka (1911), L’Aprés-midi d’un Faune (1912). The great producer Sergei Diaghilev was a major force in the development of ballet in the 1900’s, and today Les Ballets de Monte Carlo maintains his proud tradition.

Digging out a good wage
CBC4637,SV
1:43 min  PJ  2014

Charly and Max get involved Series - Max becomes aware of the amount of hours he has to work to pay for an MP3.

Dividiendo Enteros
L0155170,SV
7:40 min  JIS  2016  2453

Standard Deviants Español Matemáticas Series - Students are often intimidated by division, but they don’t have to be. The Standard Deviants start off with small numbers and basic concepts and move up from there. We cover quotients, remainders, and how to check the answer.

Dividing by Multiples of 10
L0161239,SV
4:55 min  PJI  2017  2453

Discover how to solve equations involving the division of multiples of powers of 10 with this Miniclip! Using clear animations and a real-world example to demonstrate the computation method, this clip will assist your students understanding of this mathematical process.

Dividing Whole Numbers
L0154958,SV
13:08 min  PJI  2009  2453

Teaching Systems Arithmetic Series - No need to be nervous about facing the division sign; this step-by-step introduction to dividing numbers will make you an expert. Concepts include: Division Basics, Long Division, and Factors.

Division as Repeated Subtraction
L0161235,SV
5:31 min  PJ  2017  2453

Introducing division can be challenging, but this endearing Miniclip makes this mathematical operation relatable and engaging for your young students! Follow Ali and his delicious vegetable patch as he demonstrates how to use repeated subtraction on a number line and through the horizontal subtraction method to make yummy cupcakes! Each step of these methods is explained, allowing your students to develop their understanding and build the confidence to try it themselves.

Division Basics: Common Core 4 Kids
L0114893,SV
4:02 min  PJ  2016  2453

Common Core Math 4 Kids Series - Learn the basics of division in this fun video where we learn different ways to divide. We use number lines, grouping of objects and repeated subtraction.*Feel free to pause the division video to challenge the kids in class.

Division Vocabulary : Common Core 4 Kids
L0114892,SV
3 min  PJ  2016  2453

Common Core Math 4 Kids Series - Come learn the basic vocabulary for Division for 3rd grade! This fun math video engages students and helps teachers start out the subject of Division. Feel free to pause the video at any time to explain or answer questions. This is great to review concepts.

Don Quichotte: Histoire des grands ballet (Footnotes series in French)
L118426,SV
27:21 min  JIS  1995  2453

Histoire des grands ballet (Footnotes series in French) - Choreographed by Petipa (1869)/Music by Léon Minkus. Based on Cervantes’ novel of the same name, this ballet was produced chiefly to introduce Spanish dances.

Double Digit Addition Worksheet Video:
Common Core 4 Kids
L0114887,SV
2:24 min  P  2016  2453

Common Core Math 4 Kids Series - Come learn about Double Digit Addition as we go over a worksheet with the Number One. This is great to be used in class to help students see how to work a few problems.

Doubles Addition Machine: Common Core 4 Kids
L0114875,SV
3 min  P  2016  2453

Common Core Math 4 Kids Series - Come learn about Doubles Addition up to the number 5 with us! We fix a doubles machine in this math video which helps kids learn their doubles. This video is designed to teach and not just be a time waster so please enjoy the video and let the kids participate. Pause the video if you would like to have kids answer the questions.

Drawing Prisms
L0161298,SV
4:15 min  JIS  2015  2453

This clip explores prisms and uses computer graphics to show the aerial, front, and side views of many different prisms. Throughout the clip, students are prompted to make their own drawings of different views of 3-D prisms and to sketch the 3-D prism shape represented by the 2-D base (top) and faces (front and side) provided. Combination prisms are introduced.

Duos Célèbres: Histoire des grands ballet (Footnotes series in French)
L118434,SV
27:18 min  JIS  1995  2453

Histoire des grands ballet (Footnotes series in French) - Les grands partenariats n’existent plus dans le monde du ballet. Nous allons examiner quelques-uns des plus grands duos (Nureyev/Fontein, Sibley/Dowell, Vasiliev/Maximova, Kain/Augustyn, etc...). et étudier les raisons pour lesquelles ce phénomène a cessé.

Dynamo Dominoes
999596,KT
PJ  2017

Students will build a colorful trail of wooden dominoes. The addition of bridges, bells, rails, and assorted tricks can be used to create a variety of chain reactions. Encourages imagination and creativity, problem solving, the development of fine motor skills, and much more.

The early bird gets the- cans
CBC4654,SV
1:27 min  PJ  2014

Charly and Max get involved Series - Charly and Max decide to collect bottles from their neighbours in order to have a little pocket money.
Electoral Reform Explained
CBC8043,SV
8:59 min ISA 2015
Power & Politics Series - Having promised that the 2015 federal election will be the last under the first-past-the-post system, Justin Trudeau and the Liberals face the daunting task of determining the best option for electoral reform. Dave Meslin from Unlocked Democracy gives a visual demonstration of several alternatives, including the run-off election (or ranked ballot), single transferable vote (STV) and mixed-member proportional representation (MMP).

Enter y Adición
L0155167,SV
13:03 min JIS 2016 2453
Standard Deviants Español Matemáticas Series - The Standard Deviants drop in on the world of integers, covering all the integer basics from the number line to digits 0 through 9. “What are integers? ”“What’s a whole number? ” “You’ll find out! Then it’s time for a look at adding integers.

Equivalent Fractions
L0146128,SV
16:02 min PJ 2010 2453
Math Park: The Fractions and Decimals Series - Computer graphics provide engaging graphic representations to clarify why two fractions that are written differently can still be equal. Comedy sketches including two super-heroes (The Numerator and The Denominator) reinforce the concept of equivalent fractions.

Evaluating Statistical Claims
L0161299,SV
5:23 min JIS 2015 2453
This clip investigates statistical data and data displays used in the advertising of a new gym. Follow along to find the inconsistencies in the statistics, graphs, and pie charts and discover more about how the media can sometimes manipulate statistics and displays to support their claims.

Exponents and Index Laws
L0161284,SV
6:27 min JIS 2014 2453
Exponents and index laws can make manipulations of numbers simpler. In this clip, two situations are used to apply index laws to numerical expressions with integer indices. In the first situation, the narrator needs to determine how much pallets of water bottles he and his friends will need for a 16-day yacht trip. The second situation involves calculating the rate at which light-sensitive bacteria populations increase or decrease depending on changes to their environment. Ideal for applying mathematical concepts to real-world situations.

Expressing Probability
L0161236,SV
5:35 min PJ 2016 2453
Everything that happens around us has a probability, and this can be expressed in several ways. Using entertaining real-world examples such as picking which adorable kitten to adopt from a rescue home or scoring the glittery green pen in your pencil case, students will learn how to describe probabilities using fractions, decimals, and percentages in this Miniclip. It’s the purr-fect way to introduce this important mathematical skill!

Extrait de Gala: Histoire des grands ballet (Footnotes series in French)
L118431,SV
27:17 min JIS 1995 2453
Histoire des grands ballet (Footnotes series in French) - Divers courts ballets, y compris Le Cygne, Les Sylphides, L’Oiseau Bleu, Le Corsaire, Raymonda, etc. . . It existe plusieurs courts ballets célèbres devenus des normes aujourd’hui, en particulier lors d’événements de gala. Ce programme se penche sur le plus célèbre et important d’entre eux.

Falls Apart Monster Nose Woes
CBC2848,SV
12:30 min PJ 2011
Monster Math Squad Series - Falls Apart Monster is missing his nose after bumping into another monster, and he needs the Squad to help him find it! The first thing they do is use a Math Monitor to make a sketch of the mystery monster, based on FAPM’s description. Except the sketch is very silly-looking! But they learn this is because they haven’t put the parts in the right places. Using the concept of FRONT, BACK and SIDE, they make another sketch with the Mystery Monster’s parts in the right places, and discover it’s Junk Monster! Again using FRONT, BACK and SIDE, they find Junk Monster at the back of Barks and Stench. And he has Falls Apart Monster’s nose! Yay! We did the math! “Words of the Day: FRONT, BACK and SIDE.” Math Concept: Differentiating between the front, back and sides of an object.

Figuring Out Area
L0154993,SV
25:31 min JIS 2011 2453
Teaching Systems Geometry Series - Topics covered in this video: area, area congruence postulate, area addition postulate, surface area, surface area of a cylinder, surface area of a sphere, volume of a prism, and volume of a sphere.

Finance
L0156337,SV
3:12 min JIS 2016 2453
Real Life Math Series - Learn about the math in finance.

Finding the Area of Composite Shapes
L0161286,SV
4:36 min JIS 2014 2453
Our narrator is helping to build a new playground. Her boss needs her to determine the area of different zones of the playground, some of which are composite shapes. Follow along as she works through the best way to determine the area of each shape, including partitioning. Ideal for applying mathematical concepts to real-world situations.

Footnotes: The Classics of Ballet with Frank Augus
For descriptions see individual titles:
Ballerina: Footnotes: The Classics of Ballet with Frank Augus
Ballet in Asia: Footnotes: The Classics of Ballet with Frank Augus
Ballet in Russia: Footnotes: The Classics of Ballet with Frank Augus
Coppelia: Footnotes: The Classics of Ballet with Frank Augus
Diaghilev’s Ballets Russes: Footnotes: The Classics of Ballet with Frank Augus
Don Quixote: Footnotes: The Classics of Ballet with Frank Augus
Gala Excerpts: Footnotes: The Classics of Ballet with Frank Augus
Giselle: Footnotes: The Classics of Ballet with Frank Augus
La Bayadere: Footnotes: The Classics of Ballet with Frank Augus
Male Dancer, The: Footnotes: The Classics of Ballet with Frank Augus

Mathematics Resources
Fractions of a Set

On fractions and decimals (hundredths) through visual representation and games help students understand the concept of fractions as a visual representation and games. Included is an athletic competition that involves identifying and comparing decimals.

**Fractions Are a Piece of Cake**
L0161240,SV
3:42 min JIS 2016 2453
Real Life Math Series - Learn about fractions.

**Fractions of a Set**
L0146127,SV
13:23 min PJ 2010 2453
Math Park: The Fractions and Decimals Series - Animated visual representation and games help students understand the concept of fractions of a set.

**Functions**
L0154980,SV
22:11 min JIS 2010 2453
Teaching Systems Algebra Series - Now in Algebra, we use a lot of variables, which we can write as letters. Our algebra mission in this series is to know these unknowns! In algebra, we don’t dilly-dally or mess about; we find things out. Topics include: Cost Functions, Input and Output, Trend Lines, Graphs, and Domain and Range

**Fundamentos de Fracciones**
L0155173,SV
6:35 min JIS 2016 2453
Standard Deviants Español Matemáticas Series - The Standard Deviants set the groundwork for learning fractions. They cover fraction terms, common factors, and reducing fractions. Everything you need to start working with fractions!

**Gala Excerpts: Footnotes: The Classics of Ballet with Frank Augus**
L116827,SV
29:11 min JIS 1995 2453
The Classics of Ballet with Frank Augus - Various short ballets including The Dying Swan, Les Sylphides, Bluebird, Le Corsaire, Raymonda, etc... There are many famous, short ballets that have become standards in the circuit today, especially at Gala events. This program looks at the most famous and important of them.

**Garbage Monster Delivers**
CBC2861,SV
12:30 min PJ 2011
Monster Math Squad Series - In the town of Monstrovia, the Garbage Monster delivers garbage to everyone’s house! Garbage Monster can’t figure out how to get the garbage orders correct. The Monster Math Squad needs to learn about SORTING in order to get the correct garbage into the correct bins. Sorting by colour and shape, the Squad help Garbage Monster separate the stinky monster slime sauce containers from the slimy monster sauce containers. Before long, all the monsters are getting just the right garbage!*Word of the Day: SORT.* Math Concept: Sorting different-shaped items.
Mathematics Resources

Giselle: Footnotes: The Classics of Ballet with Frank Augus
L116828,SV
26:10 min JIS 1995 2453
Footnotes: The Classics of Ballet with Frank Augus Series
Choreographed by Jean Coralli & Jules Perrot (1841) / Music by A. Adam. One of the great romantic ballets that has taught dancers the importance of acting.

Giselle: Histoire des grands ballet (Footnotes series in French)
L118425,SV
27:16 min JIS 1995 2453
Histoire des grands ballet (Footnotes series in French) - Choregraphié par Jean Coralli & Jules Perrot (1841)/ Musique de A. Adam. L'un des grands ballets romantiques qui a enseigné aux danseurs, l'importance d'agir.

Graphing Distance and Time: A Runner's Story
L0161165,SV
4:24 min S 2014 2453
Numbers and Algebra Series - This video follows a runner graphing his running distance and speed. He explains what happened along the route that affected his speed, translating this information into a graph and accounting for the varying steepness of gradients between different points along his graphed journey. This is an excellent resource for applying mathematical concepts to real-world situations.

Graphing Simple Parabolas and Circles
L0161166,SV
4:10 min S 2014 2453
Numbers and Algebra Series - This video begins with a short introduction of everyday applications of circles and parabolas. Next, basic parabolas and circles are graphed using quadratic equations. Ideal for reinforcing concepts.

A Head for Figures
CBC919,SV
45:48 min ISA 1995
The Nature of Things Series - The Nature of Things takes a good-natured look at statistics, a subject that many people find incomprehensible or irrelevant. The program illustrates how abstract mathematical ideas affect us in the real world. On the basis of statistics, laws are drafted that people find incomprehensible or irrelevant. The program illustrates how abstract mathematical ideas affect us in the real world. On the basis of statistics, laws are drafted that make seatbelts mandatory or prohibit smoking. Nevertheless, when faced with decisions about uncertain situations, people often turn to intuition and are often wrong. David Suzuki travels to the stock exchange, climbs dangerous cliffs, kayaks through white water and walks across the street. Along the way, errors in thinking that range from the deadly serious to the ridiculously comic are discovered.

Histograms and Boxplots of Gym Membership
L0161301,SV
6:13 min JIS 2015 2453
In this clip, histograms and boxplots are used to display the results of a study into the number of hours gym members use the gym each week. This clip introduces important terms and concepts including range and median values, upper and lower quartiles, leftand right-skewed data, boxplot whiskers, and symmetrical and asymmetrical data displays.

Histoire des grands ballet (Footnotes series in French)
For descriptions see individual titles:
La Ballerine: Histoire des grands ballet (Footnotes series in French)
Ballet d'Asie: Histoire des grands ballet (Footnotes series in French)
Le Ballet en Russie: Histoire des grands ballet (Footnotes series in French)

Le Ballet National au Canada:
Histoire des grands ballet (Footnotes series in French)
Les Ballets Russes de Diaghilev:
Histoire des grands ballet (Footnotes series in French)
La Bayadere: Histoire des grands ballet (Footnotes series in French)
La Belle au Bois Dormant:
Histoire des grands ballet (Footnotes series in French)
Casse-Noisette: Histoire des grands ballet (Footnotes series in French)
Cendrillon: Histoire des grands ballet (Footnotes series in French)
Coppélia: Histoire des grands ballet (Footnotes series in French)
Le Danseur: Histoire des grands ballet (Footnotes series in French)
Don Quichotte: Histoire des grands ballet (Footnotes series in French)
Duos Célebres: Histoire des grands ballet (Footnotes series in French)
Extraits de Gala: Histoire des grands ballet (Footnotes series in French)
Giselle: Histoire des grands ballet (Footnotes series in French)
Le Lac des Cygnes: Histoire des grands ballet (Footnotes series in French)
Musique et Ballets: Histoire des grands ballet (Footnotes series in French)
Roméo & Juliette: Histoire des grands ballet (Footnotes series in French)

A hockey stick in a haystack
CBC4632,SV
3:32 min PJ 2014
Charly and Max get involved Series - Charly shops for a hockey stick and realizes that it is important to compare prices before buying.

How can You Transform a Shape
L0147733,SV
1:13 min PJ 2017 2453
Bitesize: Basic Math Series - Find out about the different ways a shape can be transformed, including translation, rotation and reflection.

How Do You Order by Size?
L0147699,SV
0:44 min PJ 2017 2453
Bitesize: Basic Math Series - Discover how to sort things by size, from the longest to shortest.

How Do You Work out the Area of a Triangle?
L0147752,SV
1:09 min PJ 2017 2453
Bitesize: Basic Math Series - We can work out the area of a triangle by working out the area of a rectangle and then dividing it by two.

How Much Have I Spent?
L0147750,SV
1:03 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains how to calculate how much money you have spent.
Mathematics Resources

How Old Is Math?
L0147723,SV
1:19 min PJ 2017 2453
Bitesize: Basic Math Series - Find out how long math has been around.

How to Add and Subtract Fractions
L0147722,SV
1:25 min PJ 2017 2453
Bitesize: Basic Math Series - Find out how to add and subtract fractions with matching and different denominators.

How to Add and Subtract Numbers in Your Head
L0147706,SV
1:16 min PJ 2017 2453
Bitesize: Basic Math Series - Find out how to use mental methods when doing addition and subtraction in your head.

How to Calculate Percentage
L0147731,SV
0:52 min PJ 2017 2453
Bitesize: Basic Math Series - To work out the percentage of something, it helps to find out what one percent is first.

How to Calculate Volume
L0147713,SV
0:57 min PJ 2017 2453
Bitesize: Basic Math Series - Find out how to calculate the volume of a cuboid or cube using an equation.

How to Collect Data
L0147793,SV
0:55 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains how important collecting data is.

How to Convert Between Ratios, Fractions, and Percentages
L0147755,SV
0:53 min PJ 2017 2453
Bitesize: Basic Math Series - Ratios, fraction and percentages can all show proportion, This short video explains how to convert them.

How to Count with Tens and Ones
L0147702,SV
0:37 min PJ 2017 2453
Bitesize: Basic Math Series - We use place value headings like tens and ones to tell us about the value of a digit in a number.

How to Divide Using an Array
L0147698,SV
0:46 min PJ 2017 2453
Bitesize: Basic Math Series - Arrays can be useful when working out calculations involving multiplication and division, find out how.

How to Find the Mean, Median, Mode and Range
L0147726,SV
1:03 min PJ 2017 2453
Bitesize: Basic Math Series - Mode, median and mean are three types of average, This short video explains how to use them.

How to Multiply and Divide by 0, 1, 10, 100
L0147707,SV
1:10 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains how to multiply by 0,1,10 and 100.

How to Multiply Fractions
L0147717,SV
0:58 min PJ 2017 2453
Bitesize: Basic Math Series - Find out how to multiply fractions and calculate proportion.

How to Multiply in Your Head
L0147757,SV
1:05 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains how to multiply numbers in your head.

How to Order Numbers
L0147690,SV
1:13 min PJ 2017 2453
Bitesize: Basic Math Series - Find out about the order of numbers and counting.

How to Partition a Number
L0147762,SV
1:01 min PJ 2017 2453
Bitesize: Basic Math Series - Breaking a big number up into smaller ones can help you solve tricky math's problems.

How to Round Decimal Numbers
L0147754,SV
1:02 min PJ 2017 2453
Bitesize: Basic Math Series - Rounding numbers can be a useful way to estimate a total. Find out how to round decimal numbers.

How to Round Numbers
L0147747,SV
1:22 min PJ 2017 2453
Bitesize: Basic Math Series - Discover how rounding numbers to the nearest ten or hundred can sometimes be helpful.

How to Simplify Fractions
L0147730,SV
1:12 min PJ 2017 2453
Bitesize: Basic Math Series - You can simplify fractions by dividing the numerator and denominator by the same number.

How to Solve Missing Number Problems
L0147709,SV
1:25 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains the process of solving missing number problems.

How to Use Column Subtraction
L0147729,SV
1:13 min PJ 2017 2453
Bitesize: Basic Math Series - Number columns allow you to take large numbers and subtract one from another, This short video explains how to use them.

How to Use Directions and Turns
L0147759,SV
0:58 min PJ 2017 2453
Bitesize: Basic Math Series - You can move an object from one place to another by giving directions and turns.

How to Use Estimation to Check Your Answers
L0147728,SV
0:57 min PJ 2017 2453
Bitesize: Basic Math Series - Estimating the answer to a calculation can be a good way to check your work, Find out how.

How to Use Simple Data Tables
L0147712,SV
0:37 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains the parts of a data table and how to use one.

How to Work out an Area
L0147758,SV
0:54 min PJ 2017 2453
Bitesize: Basic Math Series - Rectilinear shapes can be broken down into squares and rectangles. Find out how to measure their area.
Introducing Decimals: Tenths

Index Notation and Prime Factors

Introducing Decimals: Tenths

Introducing Fractions: Parts of a Whole

Investigating Weight and Balance

Introducing Symmetry

Introducing Trigonometric Ratios

Investigating Population Survey Data

It's About Time!

Just the Facts Math Facts Series

La Bayadere: Footnotes: The Classics of Ballet with Frank Augus

Le Lac des Cygnes: Histoire des grands ballet (Footnotes series in French)

Learn about Days Weeks and Months with Jake Jotter

Mathematics Resources
Learn Colors for Kids: Common Core 4 Kids
L0114856,SV
0:55 min P 2016 2453
Common Core Math 4 Kids Series - In this short video kids learn different colors as a cool robotic arm brings in new balls of different colors. This video is great for preschool and even younger.

Learn to Add and Subtract with Millie Maths
L0145097,SV
5:39 min P 2017 2453
Super Geek Heroes Series - Millie Mathsis a Super Geek Hero on a mission to learn. In this episode she is adding and subtracting using familiar objects and numbers. A great way to have fun, whilst learning about addition and subtraction.

Learn to Count to 20 with Millie Maths
L0146041,SV
5:39 min P 2018 2453
Super Geek Heroes Series - A fun 3D animated learning episode to support the early years development area of mathematics. Millie Maths has a new mission to count numbers from one to ten and then from eleven to twenty with the help of her number chums. A great way to have fun, whilst learning to count numbers in early years.

Learn to Count Using Numbers, Shapes and Colors with Millie Maths
L0145082,SV
4 min P 2017 2453
Super Geek Heroes Series - Millie Mathsis a Super Geek Hero on a mission to learn. In this episode she introduces numbers and counts from 1 to 10 using different colored shapes. A great way to play number games, have fun learning to count and recognize basic shapes.

Learn to Tell the Time with Millie Maths
L0145087,SV
8:01 min P 2017 2453
Super Geek Heroes Series - Millie Mathsis a Super Geek Hero on a mission to learn. In this episode she counts from 1 to 12 using the numbers on a clock face. Millie helps children to learn to tell the time using o’clock for each hour. A great way to play number games, have fun learning to count and tell the time using the minute and hour hands on the clock.

Learning about Numbers (1-10)
L0146055,SV
3:58 min P 2016 2453
Little Smart Planet Series - Study the numbers by playing with asteroids, planets and rockets. Let’s do it!

Learning Money Race : Common Core 4 Kids
L0114879,SV
6:01 min P 2016 2453
Common Core Math 4 Kids Series - This is our second math video on coin values. We work story problems with coins and help students add coins together to solve the problems.*Pause the video at anytime to have the kids answer any questions.

Length
L0161226,SV
5:54 min JIS 2016 2453
Converting Metric Units Series - Converting between common metric units is an essential skill, which has now become that much easier to teach through this short and succinct Miniclip! Students will learn how simple it is to convert between units of length, including millimeters, centimeters, meters, and kilometers, and will see real-world examples of appropriate units and their corresponding abbreviations.

Length Word Problem: Common Core 4 Kids
L0174886,SV
4:19 min P 2016 2453
Common Core Math 4 Kids Series - This is a word problem involving length that the kids can work along with the character as he tries to find the solution. Enjoy the video!

Let’s Go Code! Activity Set
999673,KT
P 2018 2131
Students will have fun while building gross motor skills by stepping, hopping and turning.

This program introduces students to early coding and programming ideas without electronics.

Educational Benefits
Learning Style: Visual, Kinesthetic, Tactile
Skill Development: Critical thinking, Sequential thought, Problem solving, Gross motor skills, Directional sense, Following directions

Line Graphs: Gradients and Midpoints
L0161164,SV
5:22 min S 2014 2453
Numbers and Algebra Series - This video follows a sprinter graphing her distance and speed for two separate sprints. The first sprint is at a constant speed, resulting in a straight line graph. In the second sprint, her graph reflects three distinct intervals as her speed differs over the course. Follow along as she determines gradients and midpoints and her average speeds for both sprints as well as her speeds at different intervals. This is an excellent resource for applying mathematical concepts to real-world situations.

Line Plots: Common Core 4 Kids
L0114885,SV
3:49 min P 2016 2453
Common Core Math 4 Kids Series - Our line plot video teaches all about line plots and how to construct your own. This is a great way to introduce the topic.*Pause the video at anytime to have the kids answer any questions.

Linear Equations
L0154982,SV
39:42 min JIS 2010 2453
Teaching Systems Algebra Series - This program shows students that linear equations help explain changes in the real world. These equations can predict the future! That’s right: they can tell us what’s happened, what’s happening, and what might happen. So get out your crystal ball and get ready to understand the powers of linear equations. Topics include: Slope, Horizontal and Vertical Lines, Parallel and Perpendicular Lines, Three Forms of Linear Equations, Connecting with Graphs, and Systems of Equations.

Linear Inequalities
L0154983,SV
26:15 min JIS 2010 2453
Teaching Systems Algebra Series - This program is a review of linear inequalities. That’s right, not everything in this world is equal. Linear inequalities are like linear equations except they are different, and this program will tell you how and why! Topics include: Linear Inequalities, Graphing Linear Inequalities, and Systems of Linear Inequalities.
Lines, Shapes, and Sizes
L0154959,SV
30:38 min PJ 2009 2453
Teaching Systems Arithmetic Series - Step right up and meet lines, angles, and figures. We’ll answer questions like What is a figure, What is an angle, How are angles similar to each other, and What are the different types of angles? Also, we’ll learn about the number line, the coordinate plane, and ordered pairs. You’ll realize everything around us is shaped by math. Topics include: Points and Lines, Angles, Congruent Angles, Shapes and Figures, Finding Congruence in Figures, Lines of Symmetry in Figures, Solid Figures and The Number Line, Coordinate Plane, and Ordered Pairs.

Littlecodr: Teaching Kids to Think Differently
204083,KT PJ 2018 2131
Littlecodr is a card game that introduces young students to the basics of coding. These cards are great for ages 4 to 8 (but really anyone can use them)

Writing code means creating instructions to be executed, like getting a computer to display a website or teaching a robot to throw a ball.

Littlecodr allows students to play with these concepts, even before they can read and write. This game “unplugs” the experience from an electronic device, making it easier for kids to collaborate with each other and interact with the space around them while they learn.

Educational Benefits
Learning Style: Critical thinking, Sequential thought, Problem solving, Gross motor skills, Directional sense, Following directions, Planning

Students also get to practice counting, reading, following instructions, lefts and rights

Little Smart Planet
For descriptions see individual titles: Days, Weeks, Years Learning about Numbers (1-10) Numbers 1-10: The Song Story to Learn Numbers (1-10)

Little Wally Ball-y Monster
CBC2895,SV 12:30 min PJ 2011
Monster Math Squad Series - Mr Googly Eyed Monster needs help to get his Wally Ball-y rolling again, so he calls on the Monster Math Squad! They learn that what Wally Ball-y needs is to be on a slope, which will help him get rolling. Goo makes himself into a slope, but they discover that for this slope to work, Wally Ball-y needs to go to the top of it, not the bottom! Then they learn that the slope can’t be too steep, either. Soon they have Little Wally Ball-y rolling, making Googly-Eyed Monster very happy. Yay! We did the math!”Word of the Day: SLOPE.” Math Concept: Using the concept of slopes to help a ball monster roll down an incline.

Long Division: Common Core 4 Kids
L0114894,SV 4:52 min J 2016 2453
Common Core Math 4 Kids Series - Come learn about Long Division for 4th Grade in this fun Math Video. We work through the basics of what many consider the traditional form of long division. Please pause the video at any time to help kids understand as it moves kind of quickly.

Mathematics Resources
Long Division with Remainders: Common Core 4 Kids
L0114895,SV 4:50 min J 2016 2453
Common Core Math 4 Kids Series - Kids will learn about Long Division with Remainders in this funny video involving the Number One who ate too much to avoid remainders. Kids will laugh and enjoy learning about remainders in long division.

Male Dancer, The: Footnotes: The Classics of Ballet with Frank Augus
L116843,SV 27:12 min JIS 1995 2453
Footnotes: The Classics of Ballet with Frank Augus Series - This program examines the development, importance, and changes in the role of the male dancer through the history of ballet with a special focus on Nijinsky and Nureyev.

Martin Gardner: Mathemagician
CBC324,SV 46:08 min JISA 1996
The Nature of Things Series - “The universe is almost like a huge magic trick,” says Martin Gardner. Many world-renowned scientists, mathematicians and magicians agree. Featured guests who have been influenced by Gardner include: magicians Max Maven and Michael Weber; mathematician and legendary computer hacker Bill Gospar; Harvard professor and card wizard Persi Diaconis; renowned math genius John Horton Conway of Princeton; and Ron Graham, acrobat, juggler and chief scientist for AT&T; Research. Gardner first got hooked on math as a young boy, when his father gave him a book on puzzles. Today, he is revered by some of the best brains in the worlds of mathematics and magic, largely through the influence of his monthly Scientific American Mathematical games’ column.

Mass
L0161227,SV 3:52 min JIS 2017 2453
Converting Metric Units Series - Introduce your students to the metric unit of mass with this fun Miniclip featuring everyday examples to illustrate the use of milligrams, grams, and kilograms. Also explained is the method of converting between metric units of mass using multiplication and divisionan essential skill that your students will use throughout their lives.

Math Mountain Introductions: Common Core 4 Kids
L0114867,SV 2:47 min P 2016 2453
Common Core Math 4 Kids Series - This video is a great introduction to math mountains for 1st Grade kids. Kids will learn the basics of a math mountain with a fun 3d animation.

Math Park: The Fractions and Decimals Series
For descriptions see individual titles: Adding and Subtracting Fractions with the Same Denominators Comparing and Ordering Fractions Comparing Fractions Equivalent Fractions Fractions and Decimals: Hundredths Fractions of a Set Introducing Decimals: Tenths Introducing Fractions: Parts of a Whole
Mathematics and Civilization: Part 1
L0155078,SV
26:26 min  JIS  2013   2453

Just the Facts Math Facts Series - Mathematics: the most universal human invention to ever exist, and humankind's common language. Learn about the origins of mathematics in the Stone Age, how the Mesopotamians used math, the origin of how we tell time, the decimal system, the hieratic writing system, the Greeks, The Elements by Euclid, the number zero, and the contributions of famous mathematician Al'Khwarizmi.

Mathematics and Civilization: Part 2
L0155079,SV
25:56 min  JIS  2013   2453

Just the Facts Math Facts Series - The implementation of new ideas in mathematics in Europe took several hundred years and did not truly develop until the 12th century. During the Renaissance, many new mathematical theories were developed with the help of some famous figures, including Leonardo da Vinci, Descartes, Fermat, Isaac Newton, Gauss, and more. Learn about the major developments in mathematics during this time period and the famous mathematicians behind them.

Max Co. Snow Removal
CBC4631,SV
2:06 min  PJ  2014

Charity and Max get involved Series - When Max realizes the cost of a snow blower versus a shovel he changes his mind about what he needs.

Mean, Median, and Outliers
L0161304,SV
5:56 min  JIS  2015   2453

This clip explores the effect of outliers on measures of central tendency: mean and median. The lengths of time that swimmers stay underwater are collected, and mean and median values are calculated. Identify the outlier and discover the impact it has on the mean and median values.

Measurement
L0154960,SV
31:50 min  PJI  2009   2453

Teaching Systems Arithmetic Series - We use measurement to find out:How long is that?How heavy is this?How much do I need? How cold is that? By the end of this program you'll be able to answer all of these questions lickity-split. How wonderful! Topics include: Units of Measurement, Temperature, Time, Standards of Measurement: English and Metric, Length, Perimeter, Area, Weight, and Volume.

Measurement and Ratios
L0154965,SV
26:55 min  JIS  2009   2453

Teaching Systems Fundamental Math Series - This is an extensive tour through the field of measurement. Students will discover ways to calculate speed, area, perimeter, and ratios. It doesn't stop there, though; well learn how to convert metric and standard mesurements and use strategic thinking to estimate. Grab your ruler and lets start measuring! Topics include: Measurement, Standards of Measurement, Perimeter, Area, Solid Figures, Ratios, Ratios and Proportions, and Rates.

Measuring Risk: Living in Scary Times - May 2004
CBC2075,SV
12:59 min  ISA  2004

News in Review Series - Terrorism, SARS, West Nile virus, mad cow disease can all make us feel as if we're living really frightening times. But the people who study danger say we should probably all relax. In this story we'll look at how the science of statistics can help calm our anxieties and focus our attention on the real risks of everyday life.

Mathematics Resources

Mental Methods Division
L0156222,SV
4:43 min  PJ  2016   2453

A World Without Maths Series - Learn the mental method for solving division.

Mental Methods Multiplication
L0156219,SV
4:21 min  PJ  2016   2453

A World Without Maths Series - Learn the how to use mental methods in your head to complete multiplication problems.

Messy Maths: A Playful, Outdoor Approach to Early Years
204052,BK
242 p.   E  2017

The world is a mathematical place. The natural and built worlds provide dynamic and constantly changing environments, offering an endless supply of patterns, textures, colours, quantities and other attributes that underpin much of the necessary early maths experiences.

Children need lots of physical experiences that embody what maths is all about. For example, how much easier is it to understand the concept of weight if you can repeatedly lift, move and carry a range of heavy and light objects?

Juliet Robertson believes that every child and every adult is mathematically able. By sharing ideas and enjoying great mathematical conversations we can all deepen our understanding of the value of maths.

Being outside makes maths real. In the classroom, maths can seem disconnected from everyday experience. Real maths is really messy. Aside from mud pies and puddles, the cognitive processes involved mean it is not a smooth linear pathway of learning but rather an interconnected network. Lots of playing and activity along the way is a must. Children need time to make sense of the abstract ideas of maths through experiential processes along with lots of opportunities to ponder, enjoy and discuss the concepts encountered.

Messy Maths is packed full of activities to encourage children to learn through hands-on experience. Suitable for early years educators (of ages 3 6).

Missing Monster House
CBC2914,SV
12:30 min  PJ  2011

Monster Math Squad Series - Mrs. Huge Horn Monster is missing her monster house! It's up to Smooth Moves Monster to set the Monster Math Squad on the right trail, missing her monster house! It's up to Smooth Moves Monster to set the Monster Math Squad on the right trail, but first the Squad need to learn about size! Learning the difference between SMALL, MEDIUM and LARGE, help the Squad follow the right tracks to the park and past a Gate Monster so Lily can climb the jungle gym for a bird's eye view of the park. After Lily spots the house, they find out the house ran away because Mrs. Huge Horn Monster's little pet Fuzzy was tickling him constantly! Mrs. Huge Horn gives Fuzzy a quick haircut, and they all live happily ever after!*Word of the Day: SIZE. Math Concept: Learning the difference between small, medium and large.

Monster Bowl Meltdown
CBC2921,SV
12:30 min  PJ  2011

Monster Math Squad Series - Even Stevie and Even Evie need the Monster Math Squad's help. These twins like everything to be EVEN. The Squad drop by and help show the twins how to play a game of bowling and keep all the pins even as they go! With a little math, the Squad keep everything even. It comes down to the last shot when the twins have to each knock down one pin at the exact same
Monster Math Squad

Concept: What numbers come after 10?

Hoppity is Happity he has more squares to hop in! Yay to show them how to correctly number those squares.

More squares. Then they count on another Math Monitor 10. With the help of a Math Monitor, the Squad and Hoppity can't count higher than 10. He needs the Squad to save the day! They get various things for Garbage Monster to stand on, to help him reach the top, but none of them boost him high enough. Through the concept of GREATER they discover they need to have more than one box stacked up to get Garbage Monster high enough, but then the stack is too high for him to get onto! Again, using GREATER they learn to make stairs out of the boxes. That works! Shhh! Garbage Monster is sleeping! Word of the Day: GREATER. Math Concept: Adding one box at a time makes stairs that can be climbed on.

Monster Garbage Heap

CBC2923,SV 12:30 min PJ 2011

Monster Math Squad Series - When Garbage Monster wants to take a nap, he climbs on top of his garbage heap and snoozes. But his heap has gotten too high for him to climb onto! He needs the Squad to save the day! They discover the problem is that Hoppity can't add more squares to his board because he can't count higher than 10. With the help of a Math Monitor, the Squad and Hoppity learn the next five numbers after 10 and draw more squares. Then they count on another Math Monitor to show them how to correctly number those squares. Hoppity is Happy he has more squares to hop in! Yay! We did the math! Words of the Day: Greater.

Math Concept: What numbers come after 10?

Monster Math Squad

For descriptions see individual titles:

Big Burp Monster at the Library
Big Monster Mess
The Big Stink
Bucking Monster Mayhem
A Bungle at Barks and Stench
Fails Apart Monster Nose Woes
Garbage Monster Delivers
Little Wally Ball-y Monster
Missing Monster House
Monster Bowl Meltdown
Monster Fang Festival

Mathematics Resources

Monster Garbage Heap

Monsters at Play
A Muffin Mystery
Number Muncher Monster
Picky Eater's Picnic
Scary Face Picture Day
The Scoop Troop
Slime Cream Sundae
Sneeze Freeze
Trouble at the Monster Daycare
Uncle Gloop's Big Blunder
Who's On First
Woofle Goes Walkies

Monster Hopscotch

CBC2925,SV 12:30 min PJ 2011

Monster Math Squad Series - Hoppity Monster loves the game Monster Hopscotch, with its 10 squares, but he wants MORE squares to hop in, so he calls in the Squad! They discover the problem is that Hoppity can't add more squares to his board because he can't count higher than 10. With the help of a Math Monitor, the Squad and Hoppity learn the next five numbers after 10 and draw more squares. Then they count on another Math Monitor to show them how to correctly number those squares. Hoppity is Happy he has more squares to hop in! Yay! We did the math! Words of the Day: After 10. Math Concept: What numbers come after 10?

Monster Muffin Muddle

CBC2926,SV 12:30 min PJ 2011

Monster Math Squad Series - Miss Murkly is leaving her nephew, Muddle Monster, in charge of her muffin shop, but he gets everything so mixed up, she's hoping the Squad will come over and make her monster muffins! They're always happy to help out, and over they go to Miss Murkly's Monster Muffin Shop! She tells them it's very important that they follow the order of the recipe, prompting the Word Monster to remind them that ORDER is today's Word of the Day! After a few false starts, they correctly follow the order of the recipe and soon have delicious slimy, grossy monster muffins! Word of the Day: ORDER. Math Concept: Following pre-determined step-by-step instructions in the correct sequence will bring success.

Monster Road Hockey

CBC2927,SV 12:30 min PJ 2011

Monster Math Squad Series - Garbage Monster calls the Squad and says he needs help making the teams for Monster Road Hockey. They scoot over to where he is, and using the word DIVIDE, make two teams out of four players by putting two players on each team. But then Mr. Cranky Pants Monster wants to play! And that means one player for the team that was short-handed. The solution can be found with DIVIDE again only this time, Goo divides in two, making an extra player for the team that was short-handed. They shoot, they score.... they do the math! Word of the Day: DIVIDE. Math Concept: Dividing can make more of something.

Monster Tea Party

CBC2928,SV 12:30 min PJ 2011

Monster Math Squad Series - Sydney Squid Monster is having a pink ink tea party, but she doesn't know if she's ordered enough mucky-ucky marshmallows for the party each time she counts them, she gets a different number! The Squad say they'll be right over to help her. At Sydney's house, they notice that she is counting the marshmallows by putting them in a circle, and possibly counting each one more than once! Using the concept of ROW, they figure out to start counting at the beginning of the row, and stop at the end. They also learn that this applies even when there is more than one row. Sydney reveals that she's giving the tea party for the Monster Math Squad. Yay! We did the math! Word of the Day: ROW. Math Concept: Counting objects in rows is easier because doing so gives you a starting and stopping place.
The Standard Deviants start off with small numbers and basic concepts and move up from there. Carrying the one will soon become second nature!

### Multiplicar y Dividir Fracciones
- **L0155175,SV**
- **9:12 min**
- **JIS 2016 2453**

Standard Deviants Español Matemáticas Series - The Standard Deviants show you step-by-step how to multiply and divide those tricky fractions. They also explain some tricky concepts, like mixed numbers and improper fractions. Improper? How rude!

### Multiplication Commutative Property: Common Core 4 Kids
- **L0114891,SV**
- **3 min**
- **P 2016 2453**

Multiplcation for 3rd Grade. Join in the video with us by following along and you can even play ping pong with us! Can numbers be switched around when multiplying?

### Multiplication Relations: Common Core 4 Kids
- **L0114890,SV**
- **3:26 min**
- **P 2016 2453**

We help kids see relations between number of groups and number of objects in each group. Pause the video at any time to let students answer the questions.

### Multiplication Vocabulary: Common Core 4 Kids
- **L0114889,SV**
- **2 min**
- **P 2016 2453**

Multiplication Vocabulary: Common Core 4 Kids Series - While playing Ping Pong we learn about the Commutative Property of Multiplication for 3rd Grade. This is a great introduction to multiplication that helps students understand the words that are used in multiplication.

### Multiplying by Multiples of Powers of 10
- **L0161255,SV**
- **4:43 min**
- **PJI 2017 2453**

Multiplying by multiples of powers of 10 might sound confusing, but the process involved is relatively straightforward. Help your students wrap their heads around this multiplication strategy involving 10, 100, and 1,000 with the help of this animated Miniclip, which features simple, engaging animation and real-world examples.

### Multiplying Whole Numbers
- **L0154955,SV**
- **27:27 min**
- **P 2009 2453**

Teaching Systems Arithmetic Series - Don't let your students be intimidated by multiplication. This video will start off with small numbers and basic concepts and move up from there. Words like times, product, and multiply will soon become second nature! Topics include: Multiplication Basics, Multiplying Bigger Numbers, Distributive Properties, Word Problem, Multiply Using Calculator, and Problem-Solving.

### Music of Ballet, The: Footnotes: The Classics of Ballet with Frank Augus
- **L116844,SV**
- **28:12 min**
- **JIS 1995 2453**

Footnotes: The Classics of Ballet with Frank Augus Series - Ask any dancer what compels them to dance and they will tell you that it is first and foremost the music. This program will highlight the great composers of ballet and examine the inseparable relationship between the music and the dance.
Musique et Ballets: Histoire des grands ballet (Footnotes series in French)
L118435,SV
28:16 min JIS 1995 2453
Histoire des grands ballet (Footnotes series in French) - Demandez à n’importe quel danseur ce qui les incite à danser et ils vous répondront que c’est d’abord et avant tout la musique. Ce programme met l’accent sur les grands compositeurs de ballet et examine la relation inséparable entre la musique et la danse.

The National
For descriptions see individual titles:
Quantum computing power leap
Teaching Coding Through Robotics

National Ballet of Canada, The: Footnotes: The Classics of Ballet with Frank Augus
L116845,SV
27:13 min JIS 1995 2453
Footnotes: The Classics of Ballet with Frank Augus Series - A look at the history and influence of the National Ballet Company of Canada.

Natural Sequence
L014776,SV
2:55 min S 2017 2453
Bitesize - Secondary Math Series - Shows examples of linear, quadratic, exponential and Fibonacci sequences.

The Nature of Things
For descriptions see individual titles:
Chaos, Science and the Unexpected
A Head for Figures
Martin Gardner: Mathemagician

News in Review
For descriptions see individual titles:
Measuring Risk: Living in Scary Times - May 2004

Number Muncher Monster
CBC2943,SV
12:30 min PJ 2011
Monster Math Squad Series - Miss Murkly can’t bake her slimy grimy monster muffins! She has no way to measure the ingredients as someone has taken the numbers off her scale. All clues lead to the Number Muncher Monster as the culprit, and the Monster Math Squad has to COUNT in order to find out what numbers are missing. With the help of Smooth Moves Monster, the Squad catch up with the Number Muncher Monster just before he is about to steal numbers from the town clock! Using the last slimy grimy monster muffin, the Squad convinces him there are better things to eat than numbers! Word of the Day: COUNT. Math Concept: Replacing numbers in a sequence.

Numbers 1-10: The Song
L0146053,SV
0:53 min P 2016 2453
Little Smart Planet Series - Hey, kids! Let’s watch this video and practice how to say numbers from 1 to 10 while you are singing!

Numbers and Algebra
For descriptions see individual titles:
Basic Index Laws: Games, Set, Match
Basketballs, Parabolas, and Circles
Best Buys: Buying or Making Sandwiches
Calculating Profit: Earning Your Bread and Butter
Destination Distances on a Cartesian Plane
Graphing Distance and Time: A Runner’s Story
Graphing Simple Parabolas and Circles

Index Notation and Prime Factors
Line Graphs: Gradients and Midpoints
Perfect Squares and Square Roots
Simultaneous Equations on the Golf Course
Solving Quadratic Equations in Cricket and Rowing

Numbers Guy
CBC14762,SV
21:28 min ISA 2017
CBC Short Docs Series - Showman, scholar, savant... cashier? Meet David Teitel, a man who knows more about numbers than you could ever imagine. He’s worked as a cashier at health food stores since the mid-1980s. He enjoys sharing history facts, baseball statistics and arithmetic with customers he’s famous for his numbers knowledge. After dropping out of school and struggling with mental illness, David began his career in customer service at an independent cheese store in Kensington Market in Toronto. He’s spent more than 30 years as a cashier and entertainer at health food stores. After years of wrestling with personal demons, David found an environment that’s a perfect fit for his playful nature.

Nursery Rhymes with Cottonball: This Old Man
CBC19153,SV
2:38 min P 2017 Studio K Series - Try out this nursery rhyme with Cottonball, as Mr. Orlando adds to the rhythm and their young friends help out with counting.

Nutcracker, The: Footnotes: The Classics of Ballet with Frank Augus
L116846,SV
28:50 min JIS 1995 2453
Footnotes: The Classics of Ballet with Frank Augus Series - Choreographed by Petipa (1892)/Music by P. Tchaikovsky. A staple of every holiday season, the Nutcracker is by far the most popular and well-known ballet of all time.

Odd and Even Numbers
L0161256,SV
3:58 min PJ 2016 2453
This Miniclip explains what odd and even numbers are through the use of easy-to-understand (and delicious!) scenarios and offers some tricks to easily figure out which type of number you’re dealing with in everyday life through patterns.

Open Questions for the Three-Part Lesson: Geometry and Spatial Sense, Data Management and Probability 4 5 6 7 8
999678,BK
E 2017 2289
Engage in rich problem-solving and math discussions
Examine models to help develop additional open questions
Read about ways to differentiate instruction

Open Questions for the Three-Part Lesson: Geometry and Spatial Sense, Data Management and Probability 1 2 3
999668,BK
E 2017 2289
Engage in rich problem-solving and math discussions
Examine models to help develop additional open questions
Read about ways to differentiate instruction
Operations with Algebraic Fractions
L0161290,SV
4:31 min JIS 2014 2453
This clip applies the four operations to simple algebraic fractions with numerical denominators. It begins by using the example of pizza to add and subtract fractions and determine lowest common denominators. Pronumerals are then incorporated into examples, which increase in difficulty to multiplying and dividing fractions. Ideal for reinforcing concepts.

Mathematics Resources

Percentages
L0156340,SV
3:10 min JIS 2016 2453
Real Life Math Series - Learn about the math in percentages.

Perfect Squares and Square Roots
L0161170,SV
4:10 min S 2014 2453
Numbers and Algebra Series - This video investigates and uses square roots of perfect square numbers to create and solve equations. Viewers will learn how to determine the square roots of perfect squares and determine if a number is a perfect square using technology and factor trees. Step-by-step graphics; ideal for reinforcing concepts.

Ozobot bit - Class Set
204055,KT
PJI 2018 LA
Program like a pro.
It is easy to program Ozobot Bit. Students will control their robot with OzoCodes by simply drawing lines and color segments. Then they will advance to a visual block-based editor OzoBlockly, with its many features and modes, taking them from Novice to Master in no time at all.

Attached as a pdf (see below)

A Pair of DASH Robots
204038,KT
PJI 2018 LA
Dash is an exciting, hands-on learning tool for students.
Targeted at teaching creative problem solving, coding and robotics, Dash gives every student a head start on fundamental STEAM principles and 21st century skills.

Students send commands to robots to move them, light them up, and have them detect the world around them using coding and robotics applications.

Also included in the kit
Android tablets
DASH challenge cards

Parallel and Perpendicular Lines
L0161306,SV
5:58 min JIS 2015 2453
This clip demonstrates how to solve problems involving parallel and perpendicular lines. Methods for finding the gradient (slope) and equations of parallel and perpendicular lines are applied to different situations, including plotting data relating to time and distance traveled by three joggers. The point-gradient formula is also introduced. Ideal for applying problem-solving skills.

Partnerships: Footnotes: The Classics of Ballet with Frank Augus
L116835,SV
28:58 min JIS 1995 2453
Footnotes: The Classics of Ballet with Frank Augus Series - Great partnerships no longer exist in ballet anymore. We will look at some of the greats (Nureyev/Fonteyn, Sibley/Dowell, Vasiliev/Maximova, Kain/Augustyn, etc...) and examine why this phenomena has ceased.

Patterns and Graphs
L0154961,SV
24:11 min PJI 2009 2453
Teaching Systems Arithmetic Series - Students will learn to gather data and identify solutions through patterns and graphs. This program also introduces prime and composite numbers and factor pairs. So sharpen up your pencils and let's get graphing! Topics include: Patterns,
Mathematics Resources

Position and Movement
L0161260,SV
3:02 min PJ 2016 2453
Describing position and movement is essential in developing mathematical vocabulary. Discover a variety of positional words in this animated Miniclip, which follows our mathematical mastermind Measieur as he gets inside boxes, sits on bookshelves, hides behind bins, and much more! A fun and simple way to introduce this mathematical concept to your young students.

Power & Politics
For descriptions see individual titles:
Electoral Reform Explained

Prime Numbers
L0147710,SV
1:13 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains what prime numbers are.

Probability
L0156341,SV
3:38 min JIS 2016 2453
Real Life Math Series - Learn about the math found in probability.

Problem-Solving Skills
L0154969,SV
27:12 min JIS 2009 2453
Teaching Systems Fundamental Math Series - Do you need to figure out how far New York is from Chicago? Have you ever needed to double a cookie recipe? Or figure out your batting average? Math problems are everywhere. We will identify how, when, and where to use problem-solving logic. Topics include: Estimate, Guess and Test, Work Backwards, Solve a Simpler Problem, Find a Pattern, Equation Basics, and Write an Equation.

Proving Congruent Triangles
L0161291,SV
5:05 min JIS 2014 2453
While building a barbeque shelter, our narrator's boss puts her geometry skills to the test by asking her to mathematically prove that five triangular roof trusses are congruent triangles. Follow along as she applies SSS, SAS, ASA, and AAS proofs to her handiwork. Ideal for applying mathematical concepts to real-world situations.

Pythagoras
L0156342,SV
3:25 min JIS 2016 2453
Real Life Math Series - Learn about Pythagoras theorem and how to solve it.

Pythagoras' Theorem
L0147769,SV
2:46 min S 2017 2453
Bitesize - Secondary Math Series - This short video explains what Pythagoras' theory is and how to use it.

The Pythagorean Theorem
L0154992,SV
25:31 min JIS 2011 2453
Teaching Systems Geometry Series - Topics covered in this video: altitude, Pythagorean Theorem, 30-60-90 triangles, 45-45-90 triangles, perimeter and radius, and diameter.

Quadratic Equations
L0154985,SV
29:49 min JIS 2010 2453
Teaching Systems Algebra Series - Learning about the quadratic equation is really exciting because understanding it helps you understand how all sorts of things work in the real world. Much of the way things move in space can be explained through quadratic equations, and this program gets you excited about the power of this equation. Topics include: What is a Quadratic Equation?, Graphing Quadratic Equations, and Solving Quadratic Equations.

Quantum computing power leap
CBC14613,SV
5:49 min ISA 2017 2453
The National Series - For all the heralded advances, computers basically run much the same as they did seven decades ago. They've gotten smaller, faster, with more storage, but they continue to run on a language of ones and zeros. Now the world's first commercially available quantum computers are taking those ones and zeros to a level of computing power that has never before existed.

Racionales y Porcentajes
L0155176,SV
7:34 min JIS 2016 2453
Standard Deviants Español Matemáticas Series - “Alas, poor Yorick! I knew him (Ho)ratio.” Okay, math isn’t Shakespeare, but that doesn’t mean it can’t be fun. The Standard Deviants cover ratios, converting fractions to percents, and converting decimals to percents.

Rates of Change: Straight Line or Curve
L0147660,SV
2:25 min JI 2017 2453
Bitesize - Computing Series - An overview of how to calculate and interpret speeds on real life graphs.

Ratio
L0156343,SV
3:28 min JIS 2016 2453
Real Life Math Series - Learn about the math found in ratios.

Reading Calendars
L0161261,SV
5:20 min PJ 2017 2453
Calendars help us organize important information about our day-to-day activities such as birthdays, cultural celebrations, significant events, due dates, and much more! Knowing how to read a calendar allows us to make the most of them, and this Miniclip highlights how to do so in a logical way for your students. It also introduces the classic Mother Goose rhyme to teach the number of days in each month.

Real Life Math
For descriptions see individual titles:
Algebra
Finance
Fractions
Geometry
Percentages
Probability
Pythagoras
Ratio
Sequences

Reflection and Refraction
204027,KT
JIS 2018 2453
Students will use this kit to investigate the properties of light.

Contents
Laser Maze by Thinkfun
Using the maze challenge cards, arrange the laser and specified tokens on the grid in order to light up the indicated number of targets. Reflect it, block it, split it - you'll need to use some serious logic to strategise the path of the tricky laser beam. The double-sided maze cards depict the challenge on one side and the solution on the other. Numbered in order of difficulty, ranging from beginner to expert, each round becomes more challenging.

Strengthens logical-thinking, experimentation and strategy
LED Ray Box: Reflection and Refraction

Activity cards detail easy-to-follow activities by showing where to place prisms, box, and mirror to deflect or redirect light and create certain angles. Ray box includes 3 LED lights in red or white so students quickly see how simple movements affect a specific light.

Resource manuals attached below

Relationship Between Multiplication and Division
L0156221,SV
6:16 min PJ 2016 2453
A World Without Maths Series - Learn the relationship between multiplication and division.

Relative Frequency of Events
L0161306,SV
4:42 min JIS 2015 2453
This clip explores the probability of seeing Australian animals on a wildlife tour and uses relative frequency to describe the chances of seeing particular animals. Collected data is displayed in two-way tables and probabilities of "and/or" events are calculated. This clip introduces and defines important terms like experimental probability, relative frequency, and complement. Ideal for applying mathematical concepts to real-world situations.

Romeo & Juliet: Footnotes: The Classics of Ballet with Frank Augus
L116836,SV
27:11 min JIS 1995 2453
Footnotes: The Classics of Ballet with Frank Augus Series - Choreographed by Petipa (1935)/Music by S. Prokofiev. Shakespeare's classic love story is a 20th century ballet modeled after a 19th century concept.

Roméo & Juliette: Histoire des grands ballet (Footnotes series in French)
L118424,SV
27:16 min JIS 1995 2453
Histoire des grands ballet (Footnotes series in French) - Choreographié par Petipa (1935)/Musique de S. Prokofiev. Une histoire d'amour de Shakespeare qui est un ballet classique du 20ème siècle s'inspirant d'un concept du 19ème siècle.

Roots and Rational Numbers
L0154997,SV
22:56 min JIS 2011 2453
Teaching Systems Pre-Algebra Series - Topics in this video include: cube roots, reciprocals, fractional exponents, irrational numbers, repeating decimals, real numbers, and inequalities.

Saco de Números Enteros
L0155171,SV
12:48 min JIS 2016 2453
Standard Deviants Español Matemáticas Series - Reach into the bag and pull out an important concept! The Standard Deviants cover exponents, rounding, the order of operations, and scientific notation.

Savings
CBC4665,SV
1:35 min JISA 2014
Desjardins Vignettes Series - Savings is money you put aside after all expenses are paid. It can be used to pay for things you dream about, like a comic book.

Scary Face Picture Day
CBC2974,SV
12:30 min PJ 2011
Monster Math Squad Series - Mrs. Mopely is having a terrible time sorting out all the different size scary face masks the little monsters have made for Scary Face Picture Day. Using the secret monster math word MEASURE, the Monster Math Squad sort out the masks and help the little monsters line up into rows for their scary picture!*Word of the Day: MEASURE.*Math Concept: Measuring items and sorting by size.

The Scoop Troop
CBC3034,SV
12:30 min PJ 2011
Monster Math Squad Series - Picky Eater Monster is afraid he doesn't have enough time to make loot bags for his brother Persnickety Eater Monster's birthday party just the way he likes them. Can the Squad help? You bet they can using MATH! They arrive at the party site and start to assemble the loot bags, but quickly discover their scoops are all the same size, and Persnickety Eater Monster wants DIFFERENT amounts of each treat in his loot bags. How can they get the job done quickly if their scoops hold the SAME amounts of treats? The Word CAPACITY teaches them that different-sized scoops can hold different amounts of treats, so they find different-sized scoops. That works! Happy Birthday, Persnickety Eater Monster!*Word of the Day: CAPACITY.*Math Concept: Different-sized scoops can hold different amounts of objects.

Sequences
L0156344,SV
3:12 min JIS 2016 2453
Real Life Math Series - Learn about the math found in sequences.

Sequences Using Multiples
L0161265,SV
4:28 min PJ 2016 2453
We can recognize patterns everywhere through shapes, colors, and even our daily routines. But how do we recognize patterns using number sequences made up of multiples? In this Miniclip, students will build upon their understanding of multiples to identify which terms are used within a multiplication sequence.

Shape Vending Machine: Common Core 4 Kids
L0114859,SV
2:17 min P 2016 2453
Common Core Math 4 Kids Series - In our Shape Machine Video kids get to follow the character inside a shape vending machine where you can buy shapes. Come learn about shapes with us in our 2nd video on shapes.

Shapes 2nd Grade: Common Core 4 Kids
L0114883,SV
4:50 min P 2016 2453
Common Core Math 4 Kids Series - An awesome video to teach the shapes they learn in 2nd grade. We cover Triangles, Quadrilaterals, Pentagons, and a Hexagon. I highly recommend pausing the video when they talk about covering the angles and drawing the angles on the board.

Shapes for Kids: Common Core 4 Kids
L0114888,SV
0:55 min P 2016 2453
Common Core Math 4 Kids Series - Come learn basic shapes for little kids on our bumpy train ride. The Number One takes us on a train ride seeing all the shapes along the way. This is the first of other videos we will make for learning basic shapes for kids.
Shedding Light on Lenses
L0053227,SV
48:16 min JIS 2012 2453
Most of us have experienced the amusements and possible embarrassments that go with standing in front of a distorted funhouse mirror. What many people don’t realize is that convex and concave mirrors are actually quite useful. Beginning with a basic discussion of reflection in flat mirrors, this video shows how curved mirrors are used in a wide variety of industrial and safety-related applications. Viewers learn how convex mirrors are important tools in automobile driving, traffic management, and security due to their outwardly curved surfaces. Likewise, how concave mirrors produce images and how concave reflectors are incorporated into designs for headlights, satellite dishes, solar cookers, and more. The concept of angle of incidence is discussed in detail. As a departure point for more advanced subjects like linear optics and photography and the movies! This video uses compelling animation sequences and other visuals to explain how concave and convex lenses produce images in a wide variety of situations. After a concise overview of refraction, the program illustrates how magnifying glasses work and how projectors cast images onto cinema screens. It then looks, quite literally, into a tuna fish’s eye as a basis for showing how vision works. After further explaining how light travels through concave lenses, the film discusses how corrective eyewear helps people who have vision defects. Viewers are also given a chance to consider aspects of slow motion, fast motion, and stop motion imagery, as well as the mathematics of lenses and image formation. (48 minutes)

Shedding Light on Refraction
L0052776,SV
45:27 min JIS 2012 2453
Using exciting live-action demonstrations and easy-to-understand animation, this video delves into the fundamental concepts of reflection and its relationship to light, vision, and the physical world. Topics include: What is reflection? How do mirrors form images? How do they reflect light differently depending on their properties? In what way are mirror images different from two-dimensional photographs? How does our ability to see in three dimensions affect the way we see mirror images? Can animals see things in mirrors? And how do periscopes work? These questions, and many more, are answered in this entertaining and informative program, which includes a variety of optical illusions and magic tricks that incorporate reflection. Viewers will never look into a mirror in the same way again! (45 minutes)

Shedding Light on Curved Mirrors
L005427,SV
56:08 min JIS 2013 2453
Without lenses, vast areas of human knowledge, from astronomy to microbiology, would never have developed. Yet, to mention photography and the movies! This video uses compelling animation sequences and other visuals to explain how convex and concave lenses produce images in a wide variety of situations. After a concise overview of refraction, the program illustrates how magnifying glasses work and how projectors cast images onto cinema screens. It then looks, quite literally, into a tuna fish’s eye as a basis for showing how vision works. After further explaining how light travels through concave lenses, the film discusses how corrective eyewear helps people who have vision defects. Viewers are also given a chance to consider aspects of slow motion, fast motion, and stop motion imagery, as well as the mathematics of lenses and image formation. (56 minutes)

Shedding Light on Refraction
L0053315,SV
55:40 min JIS 2012 2453
Anyone standing in front of a mirror will instantly recognize the concept of reflection at work, but to observe the process of refraction and to develop an in-depth knowledge of it is quite a different story. This video helps students understand how light behaves when it passes through transparent materials and how refraction plays a role in nature and in human life. With engaging explanations and no-nonsense animation, the program explains the refractive index, incident ray, angle of incidence, refracted ray, angle of refraction, normal line, and what it means for light to turn toward the normal or away from the normal. Helpful graphics illustrate the velocities at which light travels through a vacuum, air, water, and glass, and how these speeds are used in physics and optics calculations. The topic of total internal reflection is also covered. (56 minutes)
Solving Statistical Problems
L0161294,SV
4:50 min JIS 2014 2453
This clip demonstrates the usefulness of scientific notation (standard form) to express very large and very small numbers. Examples worked through include evolutionary time periods, blinking, and the speed of light. Ideal for introducing or reinforcing concepts.

Solve for the Variables
L0140198,SV
2:18 min S 2017 2453
This short video explains how to solve algebraic problems.

Solve Combined Problems
L0140200,SV
3:27 min S 2017 2453
This short video explains how to solve geometric problems.

Solving Algebraic Problems
L0147776,SV
3:22 min S 2017 2453
This short video explains how to solve an algebraic problem.

Solving Geometric Problems
L0147773,SV
2:16 min S 2017 2453
This short video explains how to solve geometric problems.

Solving Graphical Problems
L0147772,SV
2:18 min S 2017 2453
This short video explains how to solve graphical problems.

Solving Number Problems
L0147775,SV
2:36 min S 2017 2453
This short video explains how to solve a number problem.

Solving Quadratic Equations in Cricket and Rowing
L0161172,SV
4:46 min S 2014 2453
This short video explains how to solve algebraic knowledge of quadratic equations to two sports events. First, he determines the height of a batted cricket ball and the amount of time it is in the air. Next, he determines the speed at which a rower travels upstream and downstream. This short video is ideal for applying mathematical concepts to real-world situations.

Solving Statistical Problems
L0147774,SV
2:41 min S 2017 2453
This short video explains how to solve a statistical problem.

Solving Word Problems Addition: Common Core 4 Kids
L0114868,SV
4:23 min P 2016 2453
This short video explains how to solve word problems with our pet T Rex. We learn different ways to show the problem with addition. Pause the video at any time to have the students answer or work it themselves.

Mathematics Resources

Special Triangles
L0154991,SV
4:50 min JIS 2011 2453
Teaching Systems Geometry Series - Topics covered in this video: isosceles triangles, angle-angle-side theorem, hypotenuse-leg theorem, polygons, concave and convex regions, regular polygons, rectangles, parallelograms, squares, rhombi, and trapezoids.

Standard Deviants Español Matemáticas Series
For descriptions see individual titles:
- Dividiendo Enteros
- Enteros y Adición
- Fundamentos de Fracciones
- Multiplicacion Enteros
- Multiplicar y Dividir Fracciones Racionales y Porcentajes
- Saco de Números Enteros
- Sumar y Restar Fracciones
- Sustracción de Enteros
- Trabajando con Decimales

Standard Deviants Español Pre-Algebra Series
For descriptions see individual titles:
- Algebra Básica

STEM Challenge: Design and Build
999535,KT
P 2015 1678
Stem Tree House Challenge
An easy-to-read story helps students take on this STEM challenge with confidence! The relatable characters in the accompanying storybook introduce the design elements that make a perfect tree house, inspiring students to jump right into building.

Little Red Riding Hood Stem Kit
Perfect for building problem-solving skills, this kit includes a story card that presents a dilemma for students to solve. They will have to plan, create and test basket designs to hold Little Red Riding Hood’s apples!

Story to Learn Numbers (1-10)
L0146054,SV
2:42 min P 2016 2453
This short video reviews the numbers by listening to short stories to learn in a fun and easy way.

Students use math to make street crossing safer
CDBC16707,SV
1:52 min JIS 2017
CBC News Series - Grade 11 students in Winnipeg took their lessons into the real world with a project to help classmates cross a busy street. In the last five years there have been over 100 collisions involving pedestrians at two crosswalks near their school. Can their math skills solve this problem?

Studio K
For descriptions see individual titles:
- Nursery Rhymes with Cottonball: This Old Man

Style et maisons (Homes by Design in French)
For descriptions see individual titles:
- Auberges de campagne: Style et maisons (Homes by Design in French)
Substituting Values in Formulas
L0161295,SV  5:16 min  JIS  2014  2453
This clip demonstrates the importance of algebra and mathematical formulas in solving everyday problems.
Working through a series of real-life examples, our narrator substitutes values into formulas to determine the information he requires. Follow along as he calculates speed, distance, and time measurements; the volume of a cylinder; and the cost of electricity. Ideal for applying mathematical concepts to real-world situations.

Subtraction with Regrouping Worksheet Video:
Common Core 4 Kids
L0114888,SV  3:17 min  P  2016  2453
Common Core Math 4 Kids Series - Come learn about Subtraction with Regrouping as we go over a worksheet with the Number One. This is great to be used in class to help students see how to work a few problems.

Sumar y Restar Fracciones
L0155174,SV  13:23 min  JIS  2016  2453
Standard Deviants Español Matemáticas Series - It's time to see fractions in action! Fight off those math blues as the Standard Deviants walk you through adding and subtracting fractions. It's as easy as pie (pieces of pie, that is).

Super Geek Heroes
For descriptions see individual titles:
Learn about Days Weeks and Months with Jake Jotter
Learn to Add and Subtract with Millie Maths
Learn to Count to 20 with Millie Maths
Learn to Count Using Numbers, Shapes and Colors with Millie Maths
Learn to Tell the Time with Millie Maths

Survey Data: Collecting and Displaying
L0161308,SV  4:41 min  JIS  2015  2453
In this clip, the results of student surveys are collated into tables and means are calculated. Students are asked to rate a music genre from 1 to 5, and in a separate survey are asked to identify their favorite genre from a given list. This resource explores categorical and numerical data, relative frequency, sample size, variation of means, and column graph interpretation.

Sustracción de Enteros
L0155168,SV  9:17 min  JIS  2016  2453
Standard Deviants Español Matemáticas Series - Hey, where'd that integer go? The Standard Deviants take a look at the ins and outs of subtracting integers. Plenty of fun examples make the learning go down easy.

Swan Lake: Footnotes: The Classics of Ballet with Frank Augus
L116838,SV  28:25 min  JIS  1995  2453
Footnotes: The Classics of Ballet with Frank Augus Series - Choreographed by Petipa & Ivanov (1877)/Music by P. Tchaikovsky. A look at the most revered of all the classical ballets.

Symbols: Greater Than, Less Than, Equal To
L0161267,SV  3:57 min  PJ  2017  2453
Mathematics is full of special symbols to express the relationships between numbers. But what are some examples of these symbols, and what do they actually mean? This MiniClip introduces the symbols for greater than (>), less than (<), and equal to (=). Your students will learn what these symbols mean and when to use them, giving them skills to express themselves proficiently in mathematics.

Teaching Coding Through Robotics
CBC9660,SV  5:11 min  JISA  2016
The National Series - A team of Harvard engineers has come up with a fun way to get kids hooked on coding. Starting with simple pictograms, students set responses to certain stimuli that determine the movements of a robot named Root. When they become comfortable working with pictures, the program introduces text-based coding. With this tool, even children who don’t yet know how to read can start to code.

Teaching Systems Algebra Series
For descriptions see individual titles:
Algebra Mechanics
Foundations of Algebra
Functions
Linear Equations
Linear Inequalities
Polynomials and Factoring
Quadratic Equations

Teaching Systems Arithmetic Series
For descriptions see individual titles:
Addition and Subtraction
Dividing Whole Numbers
Lines, Shapes, and Sizes
Measurement
Multiplying Whole Numbers
Patterns and Graphs
Understanding Decimals
Understanding Fractions
Whole Numbers and the Number Line

Teaching Systems Fundamental Math Series
For descriptions see individual titles:
Angles, Polygons, and Circles
Beyond Multiplication and Division
Coordinate Geometry
Gathering and Understanding Data
Measurement and Ratios
Problem-Solving Skills
Working with Fractions and Decimals

Teaching Systems Geometry Series
For descriptions see individual titles:
Angles 101
Figuring Out Area
The Pythagorean Theorem
Special Triangles
Triangles

Teaching Systems Pre-Algebra Series
For descriptions see individual titles:
Algebra Equations
Basic Algebra
The Basics
Roots and Rational Numbers
Using Graphs
Vital Concepts

Teenage Numbers: Common Core 4 Kids
L0114877,SV  3:17 min  P  2016  2453
Common Core Math 4 Kids Series - Learn teen numbers and place value in this fun teenage numbers video. Students learn about numbers from 11 to 19 and place value. Kids learn that teenage numbers are composed of a ten and ones. Feel free to pause the video at any time to let the kids answer the questions.
Transformation of Curves

Transformation of a Curve

Scream Screen - its Mrs. Mopely, the Monster Day Scare

Monster Math Squad Series - 12:30 min PJ 2011
CBC3044,SV

scalene triangles, equiangular triangles, right triangles, T eaching Systems Geometry Series - 25:30 min JIS 2011 2453
L0154990,SV

explains how to calculate the transformation of a curve.

This short video

Bitesize - Secondary Math Series - 1:18 min S 2017 2453
L0147767,SV

Transformation of a Curve

1:23 min S 2017 2453
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1:18 min S 2017 2453
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Triangles

L0154990,SV 25:30 min JIS 2011 2453
Teaching Systems Geometry Series - Topics covered in this video: equilateral triangles, isosceles triangles, scalene triangles, equiangular triangles, right triangles, obtuse triangles, and acute triangles.

Trouble at the Monster Daycare

CBC3044,SV 12:30 min PJ 2011
Monster Math Squad Series - A call comes in over the Scream Screen - its Mrs. Mopely, the Monster Day Scare teacher. Her little monsters are having trouble playing with their scary face balloons as they keep floating away. The Monster Math Squad drop by and help them out by knowing all about things being LIGHT!*Word of the Day: LIGHT. Math Concept: Sorting monsters by weight.

Uncle Gloop's Big Blunder

CBC3048,SV 12:30 min PJ 2011
Monster Math Squad Series - Mr. Cranky Pants Monster's last customer mistakenly left with the wrong scooter! The Monster Math Squad has to learn all about PATTERNS to follow the trail of the missing scooter! It was Uncle Gloop who mistakenly took the wrong scooter. He would love to return it if he could just remember the combination to the lock monster that is holding the scooter tight! Fortunately, the Squad remembers the combination as it's a pattern of repeating colours!*Word of the Day: P A TTERN. Math Concept: Finding a monster by following a trail.

Understanding Decimals

L0154957,SV 26:51 min PJ 2009 2453
Teaching Systems Arithmetic Series - This program dives straight into understanding decimals. After we cover the basics, we will move on to how to handle decimals in other situations: adding, subtracting, multiplying, dividing, and scientific notation. Wow! Topics include: Decimal Basics, Adding and Subtracting decimals, Multiplying and Dividing Decimals, Rounding Decimals, Scientific Notation, and Problem-Solving with Decimals.

Understanding Fractions

L0154958,SV 12:35 min PJ 2009 2453
Teaching Systems Arithmetic Series - It's time for some fraction action. This program begins with fraction terms and then builds on the basics to tackle adding, subtracting, and multiplying fractions. Some tricky concepts, like mixed numbers and improper fractions, are also explained. By the end, using fractions will be as easy as slicing pie! Topics include: Fraction Basics, Mixed Numbers and Improper Fractions, Common Factors, Reducing Fractions, Converting Fractions to Decimals, and Common Denominators.

Using Graphs

L0155000,SV 22:56 min JIS 2011 2453
Teaching Systems Pre-Algebra Series - Topics in this video include: graphing linear equations, vertical and horizontal lines, parallel lines, boundary lines, and graphing linear inequalities.

Using Number Lines for Division

L0147763.SV 0:34 min PJ 2017 2453
Bitesize - Basic Math Series - This short video explains how to use a number line for division problems.

Visible Learning for Mathematics, Grades K-12: What Works Best to Optimize Student Learning

999657.BK E 2017 2016
In this work, the authors walk teachers through the key research-based moves they should focus on in their mathematics classrooms - those with the highest effect sizes in the phases of surface, deep, and transfer learning. In accessible, every-day language, they offer their best guidance to teachers on what surface, deep, and transfer learning mean, look, and sound like in the mathematics context.
Wages and Salaries

Through Number Games and Puzzles, Grades 3-5

We Are Canada, Episode 5

We Are Canada, Episode 5

Well Played: Building Mathematical Thinking Through Number and Algebraic Games and Puzzles, Grades K-2

Well Played: Building Mathematical Thinking Through Number and Algebraic Games and Puzzles, Grades 3-5

Mathematics Resources

Vital Concepts

Teaching Systems Pre-Algebra Series - Topics in this video include: tree diagrams, prime factorization, greatest common factor, least common multiple, absolute value, square roots, radical signs, negative roots, and perfect square.

Wages and Salaries

We Are Canada Series - A rock musician uses music to battle youth suicide and inspire hope; a millennial is making democracy cool; and an ingenious program that inspires troubled teens to stay in school. In this episode: Robb Nash, Caro Loutfi and Gabriel Lopez.

Well Played: Building Mathematical Thinking Through Number and Algebraic Games and Puzzles, Grades K-2

Well Played: Building Mathematical Thinking Through Number and Algebraic Games and Puzzles, Grades 3-5

We Are Canada

For descriptions see individual titles:

We Are Canada, Episode 5

E 2016 2769

Puzzles, Grades K-2

We Are Canada Series

204009,BK

Directions, game boards, game cards, and puzzles; puzzles in diverse classrooms; reproducibles that provide suggestions for how to effectively manage games and puzzles, to address a range of learning levels and styles; clear step-by-step directions; and - classroom vignettes that model how best to introduce the featured game or puzzle. The book also includes a separate chapter with suggestions for how to effectively manage games and puzzles in diverse classrooms; reproducibles that provide directions, game boards, game cards, and puzzles; assessment ideas; and suggestions for online games, puzzles, and apps.

Well Played shows you how to make games and puzzles an integral learning component that provides teachers with unique access to student thinking.

The twenty-five games and puzzles in Well Played, which have all been field-tested in diverse classrooms, contain:

* clear step-by-step directions; and
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Well Played will help you tap the power of games and puzzles to engage students in sustained and productive mathematical thinking.

Well Played: Building Mathematical Thinking Through Number and Algebraic Games and Puzzles, Grades 6-8

999648,BK

Students love math games and puzzles, but how much are they really learning from the experience? Too often, math games are thought of as just a fun activity or enrichment opportunity.

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E 2016 2769

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E 2016 2769

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What Are Fractions?
L0147697,SV 0:57 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains what halves are.

What Are Imperial Measurements?
L0147756,SV 0:51 min PJ 2017 2453
Bitesize: Basic Math Series - Before we started using metric measurements, we used imperial measurements with feet and pounds.

What Are Metric Measurements?
L0147748,SV 0:50 min PJ 2017 2453
Bitesize: Basic Math Series - The metric system is used to measure the weight, length or volume of an object.

What Are Multiples?
L0147738,SV 1:17 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains what multiples are.

What Are Negative Numbers?
L0147705,SV 0:47 min PJ 2017 2453
Bitesize: Basic Math Series - When you count backwards from zero, you go into negative numbers. This short video explains how to order negative numbers.

What Are Nets?
L0147727,SV 0:45 min PJ 2017 2453
Bitesize: Basic Math Series - Find out what a net is and how they can be used to build 3D shapes.

What Are Number Bonds?
L0147704,SV 0:44 min PJ 2017 2453
Bitesize: Basic Math Series - Number bonds are pairs of numbers which add up to a certain number. This short video explains about the number bonds of 10 and 20.

What Are Odd and Even Numbers?
L0147700,SV 0:54 min PJ 2017 2453
Bitesize: Basic Math Series - Find out how to tell the difference between odd and even numbers and sort them accordingly.

What Are Parallel and Perpendicular Lines?
L0147746,SV 0:49 min PJ 2017 2453
Bitesize: Basic Math Series - Parallel lines are always the same distance apart for their entire length. Perpendicular lines cross each other at right angles.

What Are Square and Cube Numbers?
L0147708,SV 1:02 min PJ 2017 2453
Bitesize: Basic Math Series - Find out about the difference between square and cube numbers.

What Are the Chances?
L0161278,SV 3:05 min PJ 2016 2453
All events involve chance; some are certain, likely, unlikely, or impossible. These are all examples of probability! But how do we explain probability? With the use of the probability scale, some hilarious examples, and clear definitions of each level of chance, this Miniclip will engage any young student exploring probability for the first time.

Mathematics Resources

What Are the Different Types of Data Visualization?
L0147716,SV 0:55 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains what the different types of data visualization are.

What Are the Parts of a Circle?
L0147715,SV 0:51 min PJ 2017 2453
Bitesize: Basic Math Series - The diameter, radius and circumference of a circle can be measured using a ruler or tape measure.

What Are the Properties of 3D Shapes?
L0147742,SV 1:14 min PJ 2017 2453
Bitesize: Basic Math Series - Find out about the different properties of simple 3D shapes.

What Are the Types of a Triangle?
L0147741,SV 0:56 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains what the different types of triangles are called.

What Are Unit and Mixed Fractions
L0147760,SV 1 min PJ 2017 2453
Bitesize: Basic Math Series - A unit fraction has 1 as the numerator. A mixed fraction is a whole number and a fraction together.

What Is a Digit?: Common Core 4 Kids
L0114865,SV 0:57 min 2016 2453
Common Core Math 4 Kids Series - This short video teaches kids what a Digit is. Kids will learn how digits are what make up a string of numbers and each digit is very important.

What Is a Number Line?
L0147691,SV 0:52 min PJ 2017 2453
Bitesize: Basic Math Series - A number line can be used to add and subtract, find out how.

What Is a Number Sequence
L0147761,SV 0:44 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains what a number sequence is.

What Is a Ratio?
L0147718,SV 0:55 min PJ 2017 2453
Bitesize: Basic Math Series - A ratio shows the relationship between one value and another.

What Is Addition?
L0147692,SV 0:48 min PJ 2017 2453
Bitesize: Basic Math Series - A ratio shows the relationship between one value and another.

What Is an Analogue and Digital Time?
L0147692,SV 0:48 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains how to add one thing to another and complete an addition equation.

What Is an Analogue and Digital Time?
L0147734,SV 1:01 min PJ 2017 2453
Bitesize: Basic Math Series - Find out how to convert between analogue, digital and 24-hour time.

What Is an Angle?
L0147737,SV 0:50 min PJ 2017 2453
Bitesize: Basic Math Series - This short video explains what and angle is.
What Is an Equation?  
L0147711, SV  
1:05 min  
PJ  
2017  
2453  
Bitesize: Basic Math Series - This short video explains what exactly an equation is.

What Is Column Addition?  
L0147714, SV  
1:23 min  
PJ  
2017  
2453  
Bitesize: Basic Math Series - This short video explains how column addition can be used to make adding numbers easier.

What Is Currency?  
L0147719, SV  
0:55 min  
PJ  
2017  
2453  
Bitesize: Basic Math Series - Find out about currency and how it changes around the world.

What Is Division?  
L0147620, SV  
3:12 min  
PJ  
2016  
2453  
A World Without Maths Series - Learn what division is and how to use it.

What Is Division?  
L0147693, SV  
0:52 min  
PJ  
2017  
2453  
Bitesize: Basic Math Series - This short video explains how to split numbers into different parts.

What Is Financial Decision Making?  
L0147740, SV  
0:52 min  
PJ  
2017  
2453  
Bitesize: Basic Math Series - Financial decision making is about planning what to do with your money.

What Is Financial Decision Making?  
L0147749, SV  
1:04 min  
PJ  
2017  
2453  
Bitesize: Basic Math Series - Probability tells us how likely it is that something will happen. Find out about fractions and probability.

What Is Probability?  
L0147771, SV  
2:43 min  
S  
2017  
2453  
Bitesize - Secondary Math Series - This short video explains standard form.

What Is Standard Form?  
L0147771, SV  
2:43 min  
S  
2017  
2453  
Bitesize - Secondary Math Series - This short video explains standard form.

What Is Subtraction?  
L0147701, SV  
0:47 min  
PJ  
2017  
2453  
Bitesize: Basic Math Series - Subtraction is when you find the difference between two values. Find out how to subtract.

What Is Tessellation?  
L0147744, SV  
0:55 min  
PJ  
2017  
2453  
Bitesize: Basic Math Series - Tessellation is when shapes fit together in a pattern with no gaps or overlaps.

What Is the Order of Operations?  
L0147724, SV  
1:11 min  
PJ  
2017  
2453  
Bitesize: Basic Math Series - The order of operations is the rule that tells you which bit of a calculation to do first.

What Is the Perimeter?  
L0147753, SV  
0:54 min  
PJ  
2017  
2453  
Bitesize: Basic Math Series - The outside edge of a shape is known as the perimeter. Discover how to work out the perimeter of a 2D shape.

What Is Volume?  
L0147735, SV  
0:55 min  
PJ  
2017  
2453  
Bitesize: Basic Math Series - Find out how the volume of a 3D shape can be calculated by counting cubes.

What Makes a Shape Symmetrical?  
L0147720, SV  
0:56 min  
PJ  
2017  
2453  
Bitesize: Basic Math Series - A 2D shape is symmetrical if you draw a line through it and it looks exactly the same on either side of the line.

When eyes are bigger than the wallet  
CBC4645, SV  
2:10 min  
PJ  
2014  
Charly and Max get involved Series - Max learns the hard way that managing a monthly budget requires discipline after he spends the money for the month at a restaurant.

Whole Numbers and the Number Line  
L0154953, SV  
19:04 min  
PJ  
2009  
2453  
Teaching Systems Arithmetic Series - Cerebellum travels from top to bottom and from high to low in search of math concepts you need to know. First, let's drop in on the world of numbers, covering all the basics from the number line to place value. What's a whole number? What's a number line? Hold on to your hats, you're about to find out. Topics include: Whole Numbers, Place Value, Comparing Numbers, Rounding Numbers, Number Line, and Introduction to Decimals.

Who's On First  
CBC3056, SV  
12:30 min  
PJ  
2011  
Monster Math Squad Series - Long Tail Monster is trying to lead the Monster Stinkiness Parade, but whenever he starts marching all the other monsters suddenly disappear! By learning all about POSITION, the Monster Math Squad get all the monsters sorted out, so they can march their stinky march without being wiped out by a long tail!*Words of the Day: FIRST and LAST.*Math Concept: Using a parade to show kids about first and last.

A winning recipe  
CBC4655, SV  
2:10 min  
PJ  
2014  
Charly and Max get involved Series - Charly and Max sell lemonade to collect more money.

Witness  
For descriptions see individual titles:  
Ask a Silly Question
Woofie Goes Walkies
CBC3057,SV
12:30 min PJ 2011

Monster Math Squad Series - Bad Mood Monster needs the Monster Math Squad to walk his pet monster Woofy while he attends his nephew's party in the park. The Monster Math Squad has never met Woofy, and Bad Mood Monster rushes off only telling the Squad that Woofy is behind the round door with the square door knob. The Squad use their knowledge of SHAPES to get the right door, but they end up with Sticky, Monstrovia's stickiest little monster instead! A wacky chase ensues, which ends at the park where Sticky wreaks havoc on the party balloons. Fortunately, they meet up with Bad Mood Monster, and he sets the record straight on which pet is Woofy. The day ends happily, when Goo saves the party by filling in for the burst balloons!

*Word of the Day: SHAPE. Math Concept: Using shapes and sizes to pick doors.

Word Problems 1st Grade : Common Core 4 Kids
L0114869,SV
4:54 min P 2016 2453

Common Core Math 4 Kids Series - This is our second video teaching how to solve word problems with addition. Students will learn to use circle drawings, equations and math mountains to solve the word problems. Pause at any time to have students answer the questions.

Word Problems Subtraction: Common Core 4 Kids
L0114870,SV
5:27 min P 2016 2453

Common Core Math 4 Kids Series - This video helps first graders learn how to solve word problems that involve subtraction. There are several times in the video you can pause and allow students to work the problem on their own. Enjoy the video!

Working with Fractions and Decimals
L0154964,SV
32:34 min JIS 2009 2453

Teaching Systems Fundamental Math Series - Discover more about fractions and decimals! By the end of this program, students will be able to add, subtract, multiply, and divide the most complex fractions and decimals. Get the point? Topics include: Parts of a Whole, Converting Fractions and Decimals, Adding and Subtracting Fractions, Equivalent Fractions and Common Denominators, Working with Decimals, and Fractions and Decimals together.

A World Without Maths
For descriptions see individual titles:
Arrays
Mental Methods Division
Mental Methods Multiplication
Multiples:Two, Five, Ten
Relationship Between
Multiplication and Division
What is Division?
What is Multiplication?