



TRAPEZIUM
MATH®

AFTER-SCHOOL MATH PROGRAM

How many?



Find the total:

EGG COLOR	PRICE
	\$1.00
	\$2.00
	\$5.00
	\$10.00



$$\begin{array}{rclcl} \text{apple} & + & \text{apple} & + & \text{apple} & = & 15 \\ \text{apple} & + & \text{apple} & - & \text{banana} & = & 4 \\ \text{banana} & + & \text{banana} & + & \text{apple} & = & ? \end{array}$$



About how
much does
an adult cow
weigh in
pounds?



Kindergarten (Light Blue)

MATH CLUB LESSONS

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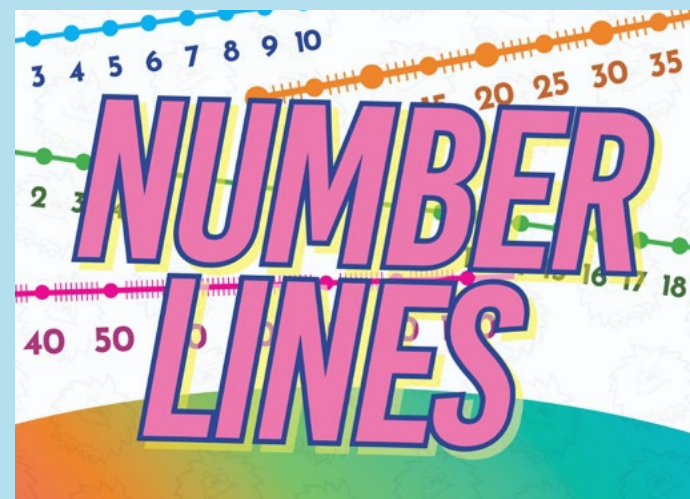
Number Fun Part 1

Students will begin their exploration of numbers: what amount connects to each number? What number has a greater or lesser value? Students begin to build their mental number line.



Number Fun Part 2

In this session, students will build on their prior knowledge of numbers and increase their counting fluency. Students will focus on naming and recognizing numbers, counting objects, and ordering numbers. Students will continue to expand their mental number line.



Strengthen My Mental Number Line

Students will be comparing numbers in this session and be able to answer, "What number is more? Less? Greater than? Less than?". Students will also use their mental number line to know what is 1 more or 1 less than a certain number.



Story Time (Learning Math with Picture Books)

In true interdisciplinary fashion, students will be learning math vocabulary and math concepts using picture books.



Give and Take, More or Less

In this session, students will build on their understanding of numbers and begin to add and subtract through various games and activities.



From Zero to Ten and Back Again!

Students will continue their introduction to adding and subtracting. This session will give students exposure to simple word problems and build a foundation for more complex problem solving.



1st Grade (Blue)

MATH CLUB LESSONS

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Counting! Counting! Counting! Part 1

In this session, students will increase their counting efficiency by practicing counting in groups (skip counting). This skill lays the foundation for more advanced mathematics in the future. Students will also practice naming and recognizing larger numbers.



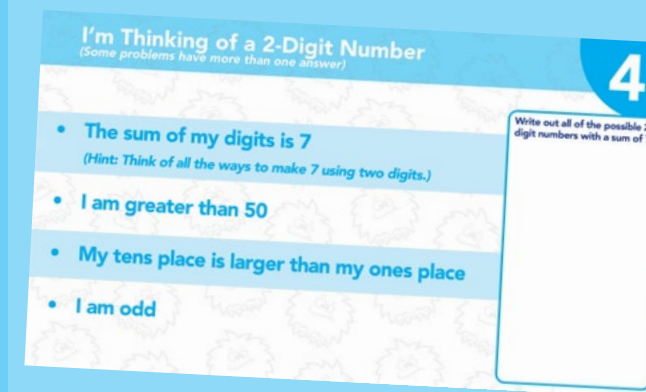
Counting! Counting! Counting! Part 2

Students will build on their acquired skills from Counting! Counting! Part 1 and continue to count by groups (multiples) and name and recognize larger numbers.



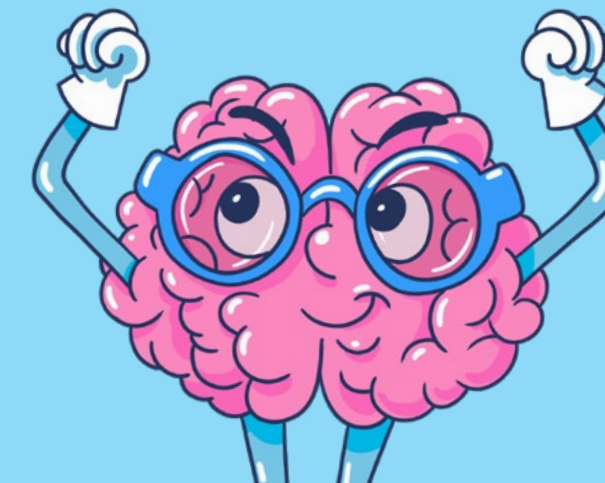
Awesome Automaticity! Part 1

In this session, students will practice gaining automaticity with basic addition and subtraction. Students will be able to look at two single digit numbers and know their sum and difference without the assistance of manipulatives.



Who Am I? Cool Characteristics

Through various games and activities, students will build their understanding of what makes up a number. Students will be able to ask themselves and answer questions like, "What number has a greater value? What is this number closer to? What is the value of the tens and ones place?".



Train Your Brain

In this sessions, students will increase their reasoning skills and understanding of math vocabulary through various games.



Awesome Automaticity! Part 2

Students will build on their skills from Awesome Automaticity! Part 1 and become fully automatic in addition and subtraction within 10.



2nd Grade (Green)

MATH CLUB LESSONS

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How many legs on 3 dogs and 3 chickens in a van?



Counting! Counting! Counting!

Students will practice skills that build a solid foundation for multiplication fluency. Students will participate in activities relating to skip counting, counting on, and multiples with a variety of activities.



Awesome Automaticity

Students will focus on games that provide an opportunity for addition and subtraction fact practice using mental math. Knowing facts quickly and automatically provides a great foundation when moving on to future math skills.

Fill in the blank: 1, __, 5, 7

A. squats	2	B. high knees	4
C. windmills	3	D. jumping jacks	0

Fluency With Number Characteristics

Students will practice and internalize how to identify number characteristics through activities and games involving movements, stories, and charts. Students will learn to categorize and identify numbers 1-100 by characteristics such as odd/even and place value.

I'm Thinking of a 2-Digit Number **5**

- I am less than 50
- I am odd
- My tens place is smaller than my ones place
- The sum of my digits is 13

Who Am I?: All About Numbers

Help your child become a curious and inventive math thinker who can flexibly use their math skills and knowledge. Students will apply math knowledge as well as abstract thinking skills to solve a variety of problems and games.

Lia is 7 years old and Maya is 11 years old. In ____ years, their ages will add to 28.

Wonderful Word Problems!

Take your child's understanding of math to the next level. Through word problems students will get to use their reading and comprehension skills and apply them to what they've learned in math class. Word problems require students to use the critical thinking skills necessary to pull pertinent information, solve the equation, and think about how the answer makes sense in the context of the problem. Students will get to see math applied to situations in everyday life!

How can you make **40 cents** using the **fewest** number of coins?

Fluency with Time & Money

Understanding time and money is important for everyday life, and also provides an opportunity to practice and talk about a variety of math skills. Students will improve their fluency and application of time and money through word problems and games!



3rd Grade (Orange)

MATH CLUB LESSONS

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15, 45, and 10, are all multiples of this number

A. 5	B. 10
C. 15	D. 3

Number Fun!

Our number sense activities help students understand, relate, and connect numbers. Students will practice categorizing and sorting numbers based on shared characteristics. Strong number sense helps to build a foundation for mathematical understanding. Understanding numbers leads to an affinity for math as students get older!

How many legs on 1 ladybug and 1 preying mantis?

6 LEGS
8 LEGS
10 LEGS

Counting! Counting! Counting! Preparing for Multiplication

This session focuses on games that help students practice their fluency with skip counting and counting on by various numbers. These activities will not only directly improve student's mental math skills, but will also contribute to a solid foundation for multiplication and division and general fluency with calculation.

I'm Thinking of a 2-Digit Number

5

- The sum of my digits is 8
- The product of my digits is 12
- I am even
- My tens place is smaller than my ones place

Multiplication Madness & Dazzling Division Part 1

This session begins with mental addition and subtraction review and then builds on these skills by including multiplication and division practice. Students will enhance their fluency with multiples through our hands on build a board and movement activities.

Follow Me

Start at

4

- Multiply by 3
- Divide by 2
- Add 8
- Divide by 2
- Add 4

What do you get?

11

Multiplication Madness & Dazzling Division Part 2

This session builds on multiplication and division part 1 by including a variety of reasoning and word problems. Our world problems will help students apply the math skills they've been practicing to real life situations.

	+		+		=	15
	+		-		=	4
	+		+		=	?

Train Your Brain

Students will use their reasoning and math skills to solve a variety of problems. Problem solving requires students to use critical thinking necessary and consider how an answer makes sense in the context of the problem. We will also be strengthening these skills by engaging with a variety of problem solving activities.

James usually plays video games for 45 minutes each night before he goes to bed. Last night, James played for 5 minutes more than twice the time he usually plays. Last night, James played video games for _____ hours and _____.

Fluency with Time and Money

Measurement, time and money skills are important for everyday life, and also give us an opportunity to practice and talk about a variety of math skills. Students will improve their fluency and application of measurement, time and money through word problems and reasoning games!



4th Grade (Pink)

MATH CLUB LESSONS

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Number Fun!

In this session of Math Club students will work on number sense and automaticity through estimation games, rounding challenges, mental math exercises and puzzle games. In Number Fun we will build a strong mental map of numbers to lay the foundation for more advanced math concepts.



Multiplication Madness & Dazzling Division

Having a strong foundation of multiplication and division is essential to engaging with more advanced and abstract math concepts. We will reinforce student's foundation of basic facts through timed challenges, hands on activities and movement games.



I'm Thinking of a Number

Just like learning a language, we become more fluent the more we practice! In this session of Trapezium we will reinforce foundations of number characteristics such as place value and we will engage in more advanced concepts such as prime, square and cube numbers. Students will be able to look at a number and know many things about that number, as well as compare and contrast it with other numbers.



Train Your Brain

Students will use their reasoning and math skills to solve a variety of problems. Problem solving requires students to use critical thinking necessary and consider how an answer makes sense in the context of the problem. We will also be strengthening these skills by engaging with a variety of problem solving activities.



Equal Parts of the Same Whole!

Fractions can be a overwhelming and abstract for students! In this session of Trapezium we will provide thorough scaffolding and build a strong foundation of understanding, so that students can feel confident entering the world of fractions.



Fantastic Fractions & Daring Decimals!

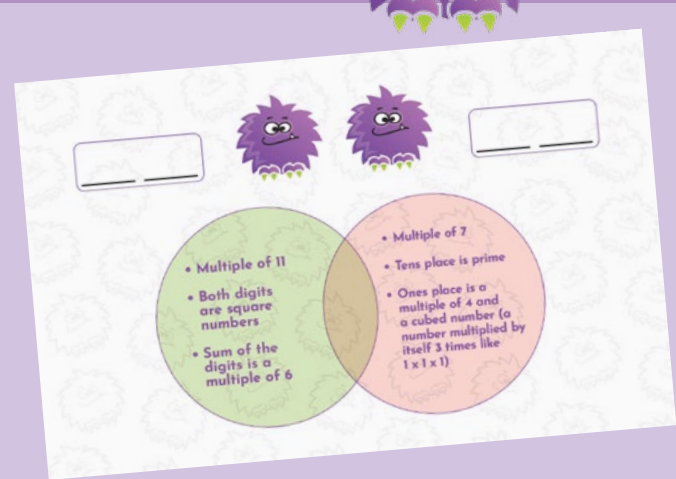
This session we will build upon a foundation of fraction and decimal knowledge to develop fluency and confidence with these concepts. Through puzzles, movement games and hands on activities students will practice applying their knowledge of fractions and decimals.



5th Grade (Purple)

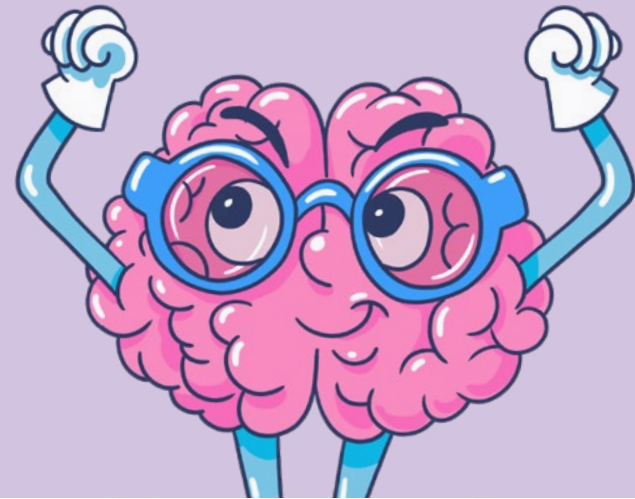
MATH CLUB LESSONS

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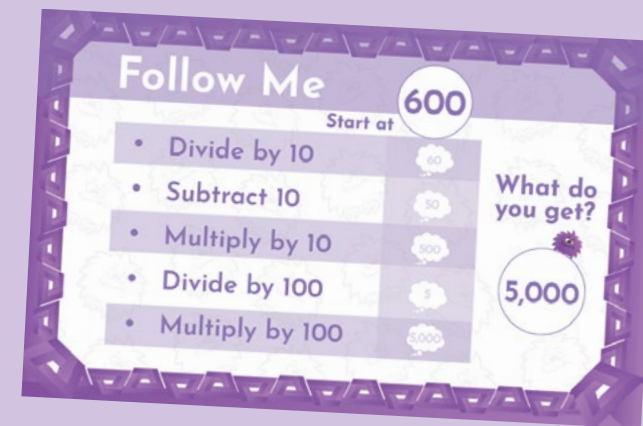
Number Fun!

In this sessions, students will develop a deeper understanding of larger numbers. Students will make estimations, find multiples and factors, practice finding squaring and cubing numbers and learn about divisibility rules



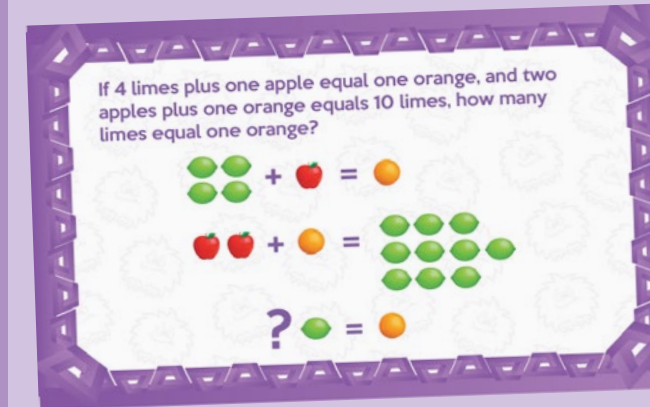
Train Your Brain: Fractions & Decimals!

Students will stretch their reasoning skills and build a foundational understanding of fractions and decimals in this session. Students will be able to estimate and compare fractions and decimals to later determine if their sums, differences and products are reasonable.



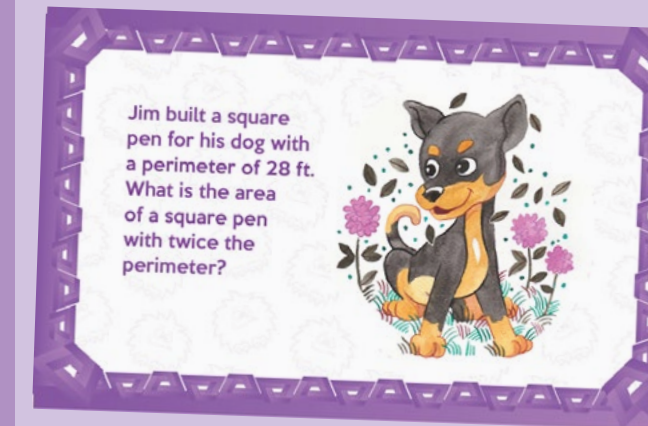
Add, Subtract, Multiply, Oh My: Fractions & Decimals

Now that students have a solid foundation and understanding of fractions and decimals we are ready to move onto more challenging concepts. In this session, students will expand their mathematical operation skills to add, subtract and multiply with fractions and decimals.



Brainteasers! Part 1

In Brainteasers, students will put all of their knowledge to the test while building critical thinking skills. Students will solve problems about an array of topics, including operations of whole numbers, fractions and decimals, reasoning questions about time, money and geometry, problems that test their knowledge of certain math vocabulary words, and much more!



Brainteasers! Part 2

Brainteasers Part 2 will touch on the same concepts as Brainteasers Part 1 but with different questions. Just like in Brainteasers Part 1, students in Brainteasers Part 2 will put all of their knowledge to the test while building critical thinking skills. Students will solve problems about an array of topics, including operations of whole numbers, fractions and decimals, reasoning questions about time, money and geometry, problems that test their knowledge of certain math vocabulary words, and much more!



Mathematical Magic!

This session is designed to ready students for middle school math using mathemagic. Learning amazing mathemagic tricks and why they work builds confidence in doing hard math and provides an excellent foundation for understanding algebra.



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