

STUDENT OFFERINGS SUMMER 2021

This summer [Math]odology introduces our first student summer workshop series, with 18 virtual offerings!

At [Math]odology we strive to support students in learning mathematics at the highest level. Our “Just In Time” workshop series is a targeted learning approach that offers live lessons, along with practice and games, on the topics you need -when you need it. We understand your time is valuable so our workshops will focus on one key concept and the development of the core knowledge needed to obtain success.

Our lead teacher, Sarah Schaefer will incorporate the concrete, pictorial, and abstract models and discuss how to relate these models to achieve abstract thinking and reasoning. Students will interact during live collaborative sessions, which will be followed by practice-time, where students will be given immediate feedback. Additionally, students will have the opportunity to individually interact directly with Sarah.

Since the pandemic, Sarah and her team have provided hundreds of hours of support to teachers, students, and parents through virtual workshops, webinars, and recorded videos. Through this experience, students have come to know Sarah as the Yoda of Math.

We have limited each session to provide smaller class sizes which afford an opportunity to collaborate and learn with students from around the US. This is an excellent opportunity to shore up any areas of concern and to build a stronger foundation for abstract thinking and reasoning. We hope to see you this summer!



STUDENT OFFERINGS SUMMER 2021

CLASS DESCRIPTION		
Date	Classes	Description
June 22, 24	Number Bonds	2 sessions
June 22	Intro to Fractions	1 session
June 22, 24, 29, July 1	Math Fact Fluency Addition/Subtraction	4 sessions
June 24	Equivalent Fractions	1 session
June 29, July 1	Adding w/in 100 Session	2 sessions
June 29, July 1	Multiplication and Division Concepts	2 sessions
June 29, July 1	Adding and Subtracting Fractions	2 sessions
July 6, 8	Subtracting w/in 100	2 sessions
July 6, 8	Multiplying Multi-Digit Numbers	2 sessions
July 6, 8	Adding and Subtracting Decimals	2 sessions
July 6, 8	Addition and Subtraction Word Problems	2 sessions
July 6, 8, 20, 22	Math Fact Fluency Multiplication/Division	4 sessions
July 20, 22	Dividing Multi-Digit Numbers	2 sessions
July 20, 22	Multiplying Fractions and Decimals	2 sessions
July 20, 22	Multiplication and Division Word Problems	2 sessions
July 27, 29	Multi-Step Word Problems with Whole Numbers	2 sessions
July 27, 29	Dividing Fractions and Decimals	2 sessions
July 27, 29	Multi-Step Bar Modeling Problems with Fractions and Decimals	2 sessions

All times shown below are in CST Central Standard Time Zone



JUST IN TIME

STUDENT SUMMER SERIES

ADDITION AND SUBTRACTION SESSION DESCRIPTIONS

Number Bonds

Throughout this class, students will focus on a quantity in terms of its parts. This part-whole relationship is a major milestone in developing number sense and has implications on future operations.

This session is geared for students who have completed grade 1 or who need to lay the starting foundations for addition, subtraction, multiplication, and division algorithms. Please note this class is 2 sessions and will require practice between sessions.

Math Fact Fluency Addition and Subtraction

Throughout this class, students will learn and practice math facts by establishing foundational facts first! Once these facts are fluent, the next step is to gain fluency with addition and subtraction within 20. Students will apply strategies through games, purposeful practice, and journaling.

This class is geared for students in Grade 1-Grade 5. Please note this class is 4 sessions and will require practice between sessions.

Adding w/in 100

Throughout this class, students will work through three types of computational strategies for solving addition problems. Students will use concrete and pictorial representations to directly model a problem and then relate these representations to the standard algorithm. Along with these models, students will be challenged to incorporate mental strategies into their addition toolkits.

This class is geared for students in Grade 2-Grade 5. Please note this class is 2 sessions and will require practice between sessions.

Subtracting w/in 100

Throughout this class, students will work through three types of computational strategies for solving subtraction problems. Students will use concrete and pictorial representations to directly model a problem and then relate these representations to the standard algorithm. Along with these models, students will be challenged to incorporate mental strategies into their subtraction toolkits.

This class is geared for students in Grade 2-Grade 5. Please note this class is 2 sessions and will require practice between sessions.

Addition and Subtraction Word Problems

Throughout this class, students will use bar-models to visualize and comprehend addition and subtraction word problems. This visual model will enable students to transform a picture into a math equation and solve it using unknown quantities.

This class is geared for students in Grade 1-Grade 2. Please note this class is 2 sessions and will require practice between sessions.

JUST IN TIME

STUDENT SUMMER SERIES

MULTIPLICATION AND DIVISION SESSION DESCRIPTIONS

Multiplication and Division Concepts

Throughout this class, students will work with multiplication and division concepts simultaneously in order to understand how these two operations relate. The different contexts will be presented and through the use of concrete and pictorial models, students will better understand multiplication and the representation of factors and symbols. When it comes to division, problem selection will require students to understand the difference between fair-sharing and partitioning context.

This class is geared for students in Grade 2 -Grade 5. Please note this class is 2 sessions and will require practice between sessions.

Math Fact Fluency Multiplication and Division

In this course, students will learn and practice math facts by establishing foundational facts first! Once these facts are fluent, we will build upon the concepts to gain fluency with multiplication and division. Students will apply strategies through games, purposeful practice, and journaling.

This class is geared for students in Grade 3-Grade 5. Please note this class is 4 sessions and will require practice between sessions.

Multiplying Multi-Digit Numbers

Throughout this class, students will use a variety of models to record the process of multiplying multi-digit numbers. Students will be expected to explain the development of the standard algorithm and how it relates to their models.

This class is geared for students in Grade 3-Grade 5. Please note this class is 2 sessions and will require practice between sessions.

Multiplication and Division Word Problems

In this course, students will use bar-models to visualize and comprehend multiplication and division word problems. This visual model will enable students to transform a picture into a math equation and solve it using unknown quantities.

This class is geared for students in Grade 2-Grade 5. Please note this class is 2 sessions and will require practice between sessions.



JUST IN TIME

STUDENT SUMMER SERIES

MULTIPLICATION AND DIVISION SESSION DESCRIPTIONS

Dividing Multi-Digit Numbers

Throughout this class, students will use a variety of models to record the process of dividing multi-digit numbers by a single-digit divisor. Students will be expected to explain the development of the standard algorithm and how it relates to their models.

This class is geared for students in Grade 3-Grade 5. Please note this class is 2 sessions and will require practice between sessions.

Multi-Step Word Problems with Whole Numbers

In this class, students will use bar-models to visualize and comprehend multi-step word problems using whole numbers. This visual model will enable students to transform a picture into a math equation and solve it using unknown quantities.

This class is geared for students in Grade 3-Grade 5. Please note this class is 2 sessions and will require practice between sessions.

JUST IN TIME

STUDENT SUMMER SERIES

FRACTIONS AND DECIMALS SESSION DESCRIPTIONS

Intro to Fractions

Throughout this class, students will engage and reflect on activities around naming fractions. Students will manipulate concrete models in developing one of the most fundamental ideas necessary for understanding fraction operations.

This class is geared for students in Grade 2 -Grade 5. Please note this class is 2 sessions and will require practice between sessions.

Equivalent Fractions

Students in this class will engage and reflect on activities around comparing, ordering, and creating equivalent fractions. They will also manipulate concrete models in developing the second fundamental idea necessary for understanding fractional operations.

This class is geared for students in Grade 3-Grade 5. Please note this is 1 class and students will be given additional practice problems to work on throughout the summer.

Adding and Subtracting Fractions

In this class, students will apply the basic foundations of fractions with concepts learned in whole number addition and subtraction to master computations with fractions.

This class is geared for students in Grade 3-Grade 5. Please note this class is 2 sessions and will require practice between sessions.

Adding and Subtracting Decimals

Throughout this class, students will develop a firm understanding of place value and the relationship between decimals and fractions. By using what they already know about adding and subtracting fractions students will be able to deduce why certain procedures work and ultimately improve at estimating sums and differences.

This class is geared for students in Grade 5. Please note this class is 2 sessions and will require practice between sessions.

JUST IN TIME

STUDENT SUMMER SERIES

FRACTIONS AND DECIMALS SESSION DESCRIPTIONS

Multiplying Fractions and Decimals

In this class, students will apply the basic foundations of fractions with concepts learned in whole number multiplication to derive the product of a whole number with a fraction or decimal. By using different methods, students will develop flexibility in their thinking and be able to reason about the product of these numbers. Problem sets will include multiplying fractions by fractions (including mixed numbers) and decimals by decimals.

This class is geared for students in Grade 4-Grade 6. Please note this class is 2 sessions and will require practice between sessions.

Dividing Fractions and Decimals

Throughout this class, students will apply the basic foundations of fractions with concepts learned in whole number division to divide a whole number with a fraction or decimal. By using different methods students will develop flexibility in their thinking and be able to reason about the quotient of these numbers. Problem sets will include dividing a whole number by a fraction/decimal and decimal by a whole number/fraction.

This class is geared for students in Grade 5-Grade 6. Please note this class is 2 sessions and will require practice between sessions.

Multi-Step Bar Modeling Problems with Fractions and Decimals

In this class, students will use bar-models to visualize and comprehend multi-step word problems that include decimals and fractions. This visual model will enable students to transform a pictorial representation into an equation and subsequently solve the equation using unknown quantities.

This class is geared for students in Grade 4-Grade 6. Please note this class is 2 sessions and will require practice between sessions.

JUST IN TIME STUDENT SUMMER SESSIONS

June-July 2021

Monday	Tuesday	Wednesday	Thursday	Friday
21	22	23	24	25
	10:00-11:00 Number Bonds (1/2) 11:15-12:15 Fact Fluency (+/-) (1/4) 12:30-1:30 Intro Fractions		10:00-11:00 Number Bonds (2/2) 11:15-12:15 Fact Fluency (+/-) (2/4) 12:30-1:30 Equivalent Fractions	
28	29	30	July 1	2
	10:00-11:00 + within 100 (1/2) 11:15-12:15 Fact Fluency (+/-) (3/4) 12:30-1:30 \times/\div Concepts (1/2) 1:45-2:45 +/- Fractions (1/2)		10:00-11:00 + within 100 (2/2) 11:15-12:15 Fact Fluency (+/-) (4/4) 12:30-1:30 \times/\div Concepts (2/2) 1:45-2:45 +/- Fractions (2/2)	
5	6	7	8	9
	10:00-11:00 - within 100 (1/2) 11:15-12:15 Fact Fluency (\times/\div) (1/4) 12:30-1:30 Multi-Digit \times (1/2) 1:45-2:45 +/- Decimals (1/2) 3:00-4:00 Word Problems (+/-) (1/2)		10:00-11:00 - within 100 (2/2) 11:15-12:15 Fact Fluency (\times/\div) (2/4) 12:30-1:30 Multi-Digit \times (2/2) 1:45-2:45 +/- Decimals (2/2) 3:00-4:00 Word Problems (+/-) (2/2)	
19	20	21	22	23
	10:00-11:00 \times Fractions/Decimals (1/2) 11:15-12:15 Fact Fluency (\times/\div) (3/4) 12:30-1:30 Long \div (1/2) 1:45-2:45 Word Problems (\times/\div) (1/2)		10:00-11:00 \times Fractions/Decimals (2/2) 11:15-12:15 Fact Fluency (\times/\div) (4/4) 12:30-1:30 Long \div (2/2) 1:45-2:45 Word Problems (\times/\div) (2/2)	

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JUST IN TIME STUDENT SUMMER SESSIONS

June-July 2021

Monday	Tuesday	Wednesday	Thursday	Friday
July 26	27	28	29	30
	10:00-11:00 + Fractions/Decimals (1/2) 11:15-12:15 Word Problems (1/2) Multi-Step Whole Numbers 12:30-1:30 Word Problems (1/2) Fractions/Decimals		10:00-11:00 + Fractions/Decimals (2/2) 11:15-12:15 Word Problems (2/2) Multi-Step Whole Numbers 12:30-1:30 Word Problems (2/2) Fractions/Decimals	

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