



Accelerate math learning recovery

A research-backed approach to math acceleration: closing the gap and moving forward

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Zearn is a nonprofit online math platform that combines research-backed curriculum and immersive digital math lessons to help every kid love learning math. Zearn is used by 1 in 4 elementary students nationwide. Zearn qualifies for ESSER II funding and meets the Every Student Succeeds Act's (ESSA) criteria for "evidence-based" programs, with [multiple studies](#) showing that learning with Zearn increases student achievement and engagement with math. Access to Zearn is free for all individual classrooms and families. For local and state education agencies, Zearn offers school & district wide-licenses.

Overview

Academic recovery in math, especially in K–8 and algebra, is essential for national recovery from the pandemic. Throughout the pandemic, every indicator has shown that low-income students missed more learning than their higher income peers; as a country, the pandemic has widened the already substantial opportunity gap in this country. Zearn partnered with Opportunity Insights to stream [real-time data](#) from Zearn’s online math platform, which highlights this missed learning by income status and geography (cited by the [New York Times](#), [ABC News](#), and the [Economist](#), among others). Dating back to school closures in March 2020, cumulative participation has been stable for schools in high-income ZIP codes. For schools in low-income areas, however, participation is down 25% relative to pre-pandemic levels.

While this learning is *missed*, it is not *lost*. The U.S. can collectively seize the opportunity the crisis presents to reduce the opportunity gap and accelerate all students to catch up, move forward, and reach grade-level proficiency. While historically the U.S. K–12 system has not successfully caught kids up who fall behind,¹ there are lessons about how to accelerate learning in math. These lessons must be applied now:

- Using high-quality, coherent instructional materials during core math²
- Providing just-in-time, purposeful interventions when the need arises and is clearly demonstrated³
- Ensuring intervention content is mathematically connected to what kids are learning during core math time.⁴
- Providing students with extra time to do foundational work that is in addition to, not in replacement of, core math time.⁵ Numerous extra-time strategies can be effective, including summer acceleration programs,⁶ in-school intervention intentionally connected to core math time,⁷ and high-dosage tutoring.⁸

¹ [NAEP Mathematics](#) data shows that proficiency rates drop over time. 41% of U.S. students score proficient in 4th grade, 34% in 8th grade, and just 24% in 12th grade.

² “Using high-quality instructional materials that are aligned with classroom content allows tutors to reinforce and support teachers’ classroom instruction.” Annenberg Institute at Brown University and University of Virginia. (2021). [Accelerating Student Learning with High-Dosage Tutoring](#).

³ “Teachers should provide students the support they need to access grade-level work, regardless of their starting point, and do so as quickly as possible during the school year.” TNTP. (2018). [The Opportunity Myth: What Students Can Show Us About How School Is Letting Them Down—and How to Fix It](#).

⁴ “Students with mathematics difficulties may make progress in intervention but still struggle in core because there is often not a bridge or support to show how the intervention connects to core.” i3 Intensive Intervention in Mathematics. (2019). [Connecting Intervention and Core Instruction. Instructional Strategies to Bridge Skills that Lead to Success: Middle School Level](#).

⁵ “Tutoring is most likely to be effective when delivered in high doses through tutoring programs with three or more sessions per week or intensive, week-long, small-group programs taught by talented teachers.” Annenberg Institute at Brown University and University of Virginia. (2021). [Accelerating Student Learning with High-Dosage Tutoring](#).

⁶ Brookings. (2017). [Summer Learning Loss: What Is It, and What Can We Do About It?](#)

⁷ Institute of Education Sciences. (2009). [Assisting Students Struggling with Mathematics: Response to Intervention \(RtI\) for Elementary and Middle Schools](#).

⁸ Annenberg Institute at Brown University and University of Virginia. (2021). [Accelerating Student Learning with High-Dosage Tutoring](#).



Zearn's 2021–22 program applies these lessons in a comprehensive, top-rated math program that state and local education agencies can use to accelerate math recovery for all students. With Zearn, educators can help students efficiently catch up while moving forward in their grade-level learning. Zearn includes:

Summer 2021 Math Intensive Series with Essential Content

A daily summer math program with the essential math content that students should master before starting the 2021–22 academic year. Each Zearn Summer 2021 Math Intensive Series includes a curated set of digital math lessons in a prioritized sequence, starting with the most critical content required to ensure a strong start to 2021-22 grade-level learning. For each grade, additional recommended content is provided should time allow. All content aligns to Student Achievement Partners 2020-21 Priority Instructional Content. Materials can be used flexibly across summer school models, tutoring programs, or outside of school summer learning.

Year-Long Grade-Level Digital Math Lessons with Built-in Tier 1 Intervention

400 hours of digital math lessons that work alongside another curriculum, with personalized Boosts that address unfinished learning in the context of new learning, integrating new information and the needed prior knowledge. A quasi-experimental design study [covering 140,000 3rd–5th graders in Louisiana](#) demonstrates that schools whose students consistently complete 2–3 Zearn Math digital lessons weekly alongside daily instruction exhibited 1.5–2.5x higher academic growth relative to schools that used high-quality instructional materials (HQIM) alone. Achievement gains grew in line with lesson completion—more grade-level lessons correlated with more growth. Most importantly, achievement gains were highest for struggling students who worked on grade-level lessons.

Kickstart Math Lessons for Every Unit with Upfront Foundational Support

"Kickstart Lessons" offer 10–15 foundational lessons placed strategically throughout each grade that offer an opportunity to re-engage students with discrete concepts critical to grade-level learning. Kickstart Lesson guidance is intentionally hyper-targeted; a [recent analysis](#) showed that students that learned with targeted foundational content before grade-level learning during the 2020–21 school year exhibited *less* struggle compared to students who learned with foundational content only.

Targeted Intervention Lesson Recommendations for Each Student

As students work through grade-level content on Zearn's platform, an embedded daily diagnostic assesses learning and automatically launches digital Tier 1 intervention. If students need additional support, teachers are given individualized intervention recommendations, assignable to students with a single click. Students can see both their intervention and grade-level assignments in Zearn's online math platform.

Comprehensive Materials for Extended-Time Math Tutoring Programs

Zearn offers materials that can be used by tutors with a range of teaching experience to accelerate grade-level learning for all students. Materials include Zearn Reports to identify and support each student's specific needs as well as mini-lessons designed to accelerate understanding of grade-level content. All materials are aligned to the content students are learning with their teacher during core math time.

Summer 2021

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Schedule A: Summer School

Summer school: In-person or hybrid

30-60 minutes daily | Each series includes up to 12 weeks of summer programming

All content follows a prioritized sequence that starts with the most critical content of the grade

Independent Zearn time

30 minutes, 5x weekly

Students log in to Zearn’s online math platform and complete digital math lessons from Summer 2021 Math Intensive Series, starting with the first priority Mission for each grade. Lessons include fluency, concept development, and independent practice with built-in math help. All lessons include embedded accessibility features to support English Language Learners and students with learning differences



Tutoring time

30 minutes, 2x-5x weekly

Options depending on teaching experience

Tutors with teaching experience teach the concept development lessons that correspond to the Summer 2021 Math Intensive Series content, starting with the first priority Mission for each grade. Tutors with less teaching experience lead students in discussion of fluency and word problems from Summer 2021 Math Intensive Series. Materials can be accessed from Zearn lesson materials.

Schedule B: At Home or Outside of School

Home or outside of school

30 minutes, 5x weekly, 8–12 weeks

Independent Zearn time

30 minutes, 5x weekly

Students log in to Zearn’s online math platform and complete digital math lessons from Summer Intensive Series, starting with the first priority Mission for each grade. Lessons include fluency, concept development, and independent practice. All lessons include embedded accessibility features to support English Language Learners and students with learning differences.

Current teachers assign students to the first lesson in the first priority Mission for each grade. Parents and caregivers can support learning by using tips provided on Zearn’s website, available in both English and Spanish.

Math Intensive Series: Rising 1st Graders

Content for Rising 1st Graders			
K Digital Activities	Complete all Kindergarten Digital Activities	Kindergarten Digital Activities are short and engaging, and they're designed to build number sense. Each Activity takes ~10 minutes.	Numbers to 5 50 activities
	Kindergarten is all about learning to count with deep understanding. Completing all Kindergarten Digital Activities will enable students to practice counting, addition, embedded numbers, and decomposing and composing numbers up to 20 using interactive five frames, ten frames, number bonds, and more.		Numbers to 10 50 activities
			Numbers to 15 35 activities
			Numbers to 20 35 activities

Math Intensive Series: Rising 2nd Graders

Content for Rising 2nd Graders				
Mission	Mission Title	Standards	Lessons*	Topics
G1M1	Add and Subtract Small Numbers PRIORITY First grade is all about counting! Zearn Math kicks off first grade by moving students from counting all (3+2 is solved by counting one, two, three...four, five) to counting on (3+2 is solved by counting threese...four, five) and by teaching students different ways to break apart numbers. As tempting as it might be, don't rush through these ideas. Students will come back to them throughout this year (and in the future)!	1.OA.1 1.OA.5 1.OA.6 1.OA.8 1.OA.3 1.OA.7	32	Topic A: Embedded Numbers and Decompositions Topic B: Counting On from Embedded Numbers Topic C: Addition Word Problems Topic D: Strategies for Counting On Topic E: The Commutative Property of Addition and the Equal Sign Topic F: Development of Addition Fluency Within 10 Topic G: Subtraction as an Unknown Addend Problem Topic H: Subtraction Word Problems Topic I: Decomposition Strategies for Subtraction Topic J: Development of Subtraction Fluency Within 10
	Meet Place Value PRIORITY Mission 2 tackles larger numbers—all the way up to 100. To be able to work with such large numbers, two key things happen in Mission 2. First, students move from counting on to more sophisticated decomposition and composition strategies (meaning students learn how to make problems easier for themselves). Second, students will identify a 10 as one unit. This signals a shift toward working with numbers themselves, rather than representing them concretely (e.g., linking cubes) or with pictures (e.g., drawing circles).	1.OA.1 1.OA.3 1.OA.4 1.OA.6 1.OA.5 1.OA.7 1.OA.8 1.NBT.2a 1.NBT.2b 1.NBT.5	23	Topic A: Counting On or Making Ten to Solve Result Unknown and Total Unknown Problems Topic B: Counting On or Taking from Ten to Solve Result Unknown and Total Unknown Problems Topic C: Strategies for Solving Change or Addend Unknown Problems Topic D: Varied Problems with Decompositions of Teen Numbers as 1 Ten and Some Ones

G1M4	Add and Subtract Bigger Numbers	1.NBT.1 1.NBT.2 1.NBT.5 1.NBT.3 1.NBT.4 1.NBT.6 1.OA.1	23	Topic A: Tens and Ones Topic B: Comparison of Pairs of Two-Digit Numbers Topic C: Addition and Subtraction of Tens Topic D: Addition of Tens or Ones to a Two-Digit Number Topic E: Varied Problem Types Within 20 Topic F: Addition of Tens and Ones to a Two-Digit Number
	<p>This Mission builds on the foundations of counting on, decomposing, and counting strategies that were established in Mission 1 and Mission 2. This gives students the opportunity to work with numbers up to 40. Students will learn many new strategies to identify tens and ones, and they'll compare, add, and subtract numbers up to 40. Reinforce this new content by using the provided word problem each day.</p>			
Lessons: Intensive Summer Series		PRIORITY :	55	
Complete Summer Series:			78	
*Refers to the number of Zearn Math Digital Lessons				

Math Intensive Series: Rising 3rd Graders

Content for Rising 3rd Graders				
Mission	Mission Title	Standards	Lessons*	Topics
G2M3	Counting and Place Value PRIORITY Most children begin to understand place value using physical objects that can be counted (like grapes or fingers). This Mission expands that understanding to more abstract concepts, like centimeters, ones, and tens. Students will also expand their understanding of the base ten system with hundreds and learn counting up to 1,000.	2.NBT.1 2.NBT.2 2.NBT.3 2.MD.8 2.NBT.A 2.NBT.4 2.OA.1 2.NBT.8	19	Topic A: Forming Base Ten Units of Ten, a Hundred, and a Thousand Topic B: Understanding Place Value Units of One, Ten, and a Hundred Topic C: Three-Digit Numbers in Unit, Standard, Expanded, and Word Forms Topic D: Modeling Base Ten Numbers Within 1,000 with Money Topic E: Modeling Numbers Within 1,000 with Place Value Disks Topic F: Comparing Two Three-Digit Numbers Topic G: Finding 1, 10, and 100 More or Less than a Number
G2M4	Add, Subtract, and Solve PRIORITY Equipped with a solid understanding of base ten from Mission 3, students will dive into decomposing and composing in addition and subtraction for numbers up to 200.	2.OA.1 2.NBT.5 2.NBT.8 2.NBT.9 2.NBT.7 2.NBT.6	29	Topic A: Sums and Differences Within 100 Topic B: Strategies for Composing a Ten Topic C: Strategies for Decomposing a Ten Topic D: Strategies for Composing Tens and Hundreds Topic E: Strategies for Decomposing Tens and Hundreds Topic F: Student Explanations of Written Methods
G2M5	Add and Subtract Big Numbers Students are now well on their way to mastering flexible addition and subtraction. This Mission builds on those skills, now using numbers up to 1,000 and increasing the focus on efficiency and checking their work.	2.NBT.7 2.NBT.8 2.NBT.9	20	Topic A: Strategies for Adding and Subtracting Within 1,000 Topic B: Strategies for Composing Tens and Hundreds Within 1,000 Topic C: Strategies for Decomposing Tens and Hundreds Within 1,000 Topic D: Student Explanations for Choice of Solution Methods



Lessons: Intensive Summer Series	PRIORITY	:	48
Complete Summer Series:			68

*Refers to the number of Zearn Math Digital Lessons

Math Intensive Series: Rising 4th Graders

Content for Rising 4th Graders				
Mission	Mission Title	Standards	Lessons*	Topics
G3M3	Multiply and Divide Tricky Numbers PRIORITY	3.OA.4 3.OA.5 3.OA.7 3.OA.9 3.OA.1 3.OA.2 3.OA.3 3.OA.6 3.OA.8 3.NBT.3	21	Topic A: The Properties of Multiplication and Division Topic B: Multiplication and Division Using Units of 6 and 7 Topic C: Multiplication and Division Using Units up to 8 Topic D: Multiplication and Division Using Units of 9 Topic E: Analysis of Patterns and Problem Solving Including Units of 0 and 1 Topic F: Multiplication of Single-Digit Factors and Multiples of 10
	This Mission extends multiplication and division to all factors between 0 and 10. Students work deeply with the commutative, distributive, and associative properties, and they'll have problem-solving opportunities at the close of each topic.			
G3M5	Fractions as Numbers PRIORITY	3.G.2 3.NF.1 3.NF.3c 3.NF.3d 3.NF.3a 3.NF.3b 3.NF.2a 3.NF.2b	29	Topic A: Partitioning a Whole into Equal Parts Topic B: Unit Fractions and Their Relation to the Whole Topic C: Comparing Unit Fractions and Specifying the Whole Topic D: Fractions on the Number Line Topic E: Equivalent Fractions Topic F: Comparison, Order, and Size of Fractions
	This Mission builds a deep understanding of fractions as a single number. Students begin concretely interacting with fractions by folding strips of paper to create equal parts. By the end of the Mission, students will be able to evaluate equivalence and compare size pictorially.			

G3M1	Multiply and Divide Friendly Numbers	3.OA.1 3.OA.3 3.OA.2 3.OA.6 3.OA.4 3.OA.5 3.OA.7 3.OA.8	21	<p>Topic A: Multiplication and the Meaning of Factors</p> <p>Topic B: Division as an Unknown Factor Problem</p> <p>Topic C: Multiplication Using Units of 2 and 3</p> <p>Topic D: Division Using Units of 2 and 3</p> <p>Topic E: Multiplication and Division Using Units of 4</p> <p>Topic F: Distributive Property and Problem Solving Using Units of 2–5 and 10</p>
	<p>This Mission introduces multiplication and division with friendly numbers, 2–5 and 10. Students move gradually from skip-counting and arrays to using the distributive property as a strategy for multiplying and dividing larger factors.</p>			
<p>Lessons: Intensive Summer Series PRIORITY :</p> <p>Complete Summer Series:</p>			50 71	
*Refers to the number of Zearn Math Digital Lessons				

Math Intensive Series: Rising 5th Graders

Content for Rising 5th Graders				
Mission	Mission Title	Standards	Lessons*	Topics
G4M3	Multiply and Divide Big Numbers PRIORITY This Mission teaches students the lifelong skills of multiplying and dividing big numbers. Students learn strategies that will allow them to multiply and divide on paper and in their heads.	4.OA.1 4.OA.2 4.MD.3 4.OA.3 4.OA.4 4.NBT.5 4.NBT.1 4.NBT.6	34	Topic A: Multiplicative Comparison Word Problems Topic B: Multiplication by 10, 100, and 1,000 Topic C: Multiplication of up to Four Digits by Single-Digit Numbers Topic D: Multiplication Word Problems Topic E: Division of Tens and Ones with Successive Remainders Topic F: Reasoning with Divisibility Topic G: Division of Thousands, Hundreds, Tens, and Ones Topic H: Multiplication of Two-Digit by Two-Digit Numbers
	Equivalent Fractions PRIORITY This Mission teaches students how to manipulate fractions. Students compare fractions, evaluate equivalence, and learn that the same methods they used for whole number operations can be used to add, subtract, and multiply fractions.	4.NF.3b 4.NF.4a 4.NF.3a 4.NF.1 4.NF.2, 4.NF.3ad 4.MD.2 4.NF.3 4.MD.4 4.NBT.6 4.NF.3c 4.NF.4, 4.OA.2	38	Topic A: Decomposition and Fraction Equivalence Topic B: Fraction Equivalence Using Multiplication and Division Topic C: Fraction Comparison Topic D: Fraction Addition and Subtraction Topic E: Extending Fraction Equivalence to Fractions Greater Than 1 Topic F: Addition and Subtraction of Fractions by Decomposition Topic G: Repeated Addition of Fractions as Multiplication Topic H: Exploring a Fraction Pattern

G4M1	Add, Subtract, & Round	4.NBT.1 4.NBT.2 4.OA.1 4.NBT.3 4.OA.3 4.NBT.4	18	<p>Topic A: Place Value of Multi-Digit Whole Numbers</p> <p>Topic B: Comparing Multi-Digit Whole Numbers</p> <p>Topic C: Rounding Multi-Digit Whole Numbers</p> <p>Topic D: Multi-Digit Whole Number Addition</p> <p>Topic E: Multi-Digit Whole Number Subtraction</p> <p>Topic F: Addition and Subtraction Word Problems</p>
	<p>This Mission takes number sense and place value understanding from 2nd and 3rd grade a step further. Students start by noticing patterns when bundling and unbundling groups of 10s, 100s, and 1,000s, and they conclude by estimating and finding precise answers to addition and subtraction problems using the standard algorithm.</p>			
Lessons: Intensive Summer Series		PRIORITY :	72	
Complete Summer Series:			90	
*Refers to the number of Zearn Math Digital Lessons				

Math Intensive Series: Rising 6th Graders

Content for Rising 6th Graders				
Mission	Mission Title	Standards	Lessons*	Topics
G5M2	Base Ten Operations PRIORITY	5.NBT.1 5.NBT.2 5.OA.1 5.OA.2 5.NBT.5 5.NBT.7 5.MD.1 5.NBT.6	29	Topic A: Mental Strategies for Multi-Digit Whole Number Multiplication Topic B: The Standard Algorithm for Multi-Digit Whole Number Multiplication Topic C: Decimal Multi-Digit Multiplication Topic D: Measurement Word Problems with Whole Number and Decimal Multiplication Topic E: Mental Strategies for Multi-Digit Whole Number Division Topic F: Partial Quotients and Multi-Digit Whole Number Division Topic G: Partial Quotients and Multi-Digit Decimal Division Topic H: Measurement Word Problems with Multi-Digit Division
	Mission 1 introduced students to decimal fractions, and Mission 2 will introduce them to similar conceptual work (mental math, reasoning, conceptual models, and algorithms), but with whole numbers. Students will multiply multi-digit whole numbers in the first part of the Mission and divide them in the end. Each operation concludes with application work and measurement word problems.			
G5M4	Multiply and Divide Fractions and Decimals PRIORITY	5.MD.2 5.NF.3 5.NF.4a 5.MD.1 5.OA.1 5.OA.2 5.NF.6 5.NBT.7 5.NF.4b 5.NF.5 5.NF.7	32	Topic A: Line Plots of Fraction Measurements Topic B: Fractions as Division Topic C: Multiplication of a Whole Number by a Fraction Topic D: Fraction Expressions and Word Problems Topic E: Multiplication of a Fraction by a Fraction Topic F: Multiplication with Fractions and Decimals as Scaling and Word Problems Topic G: Division of Fractions and Decimal Fractions Topic H: Interpretation of Numerical Expressions
	Students tackled equivalency in adding and subtracting fractions in Mission 3, and now they're ready to focus on multiplying and dividing fractions. Their understanding will be deeply rooted in multiple concrete examples and pictures before they generalize to more abstract methods.			

G5M3	Add and Subtract Fractions	4.NF.1 4.NF.3c 4.NF.3d 5.NF.1 5.NF.2	16	Topic A: Equivalent Fractions Topic B: Making Like Units Pictorially Topic C: Making Like Units Numerically Topic D: Further Applications
	<p>In this Mission, students will develop flexibility with addition and subtraction of fractions so they can mentally or numerically solve, reason, and estimate their calculations. The Mission begins with concrete and pictorial work (using area models and number lines) and moves to numeric work with word problems by the end.</p>			
Lessons: Intensive Summer Series		PRIORITY :	61	
Complete Summer Series:			77	
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Math Intensive Series: Rising 7th Graders

Content for Rising 7th Graders				
Mission	Mission Title	Standards	Lessons*	Topics
G6M2	Introducing Ratios PRIORITY <p>In this mission, students are introduced to the concept of a ratio, and they study ratio relationships through various visual models, including double number line diagrams. Students extend their work with basic arithmetic to recognize and create equivalent ratios in various real-world contexts.</p>	6.RP.1 6.RP.2 6.RP.3 6.RP.3a 6.RP.3b	16	Topic A: What are ratios? Topic B: Equivalent Ratios Topic C: Representing Equivalent Ratios Topic D: Solving Ratio and Rate Problems Topic E: Part-Part-Whole Ratios Topic F: Equivalent Ratios
G6M3	Unit Rates and Percentages PRIORITY <p>In this Mission, students extend their developing understanding of ratios to dig deeper into ratio relationships and learn about rates and unit rates. Students are introduced to the idea of a percentage, which allows them to solve a variety of real-world problems.</p>	6.RP.2 6.RP.3 6.RP.3b 6.RP.3c 6.RP.3d	14	Topic A: Using Unit Rate to Solve Problems Topic B: Unit Conversion Topic C: Rates Topic D: Percentages Topic E: Let's Put It to Work
G6M4	Dividing Fractions <p>In this Mission, students culminate their study of fractions as they learn to divide a fraction by a fraction, using concrete examples and real-world contexts to help them make sense of the mathematics.</p>	6.NS.1 6.G.1 6.G.2	16	Topic A: Making Sense of Division Topic B: Meanings of Fraction Division Topic C: Algorithm for Fraction Division Topic D: Fractions in Lengths, Areas, and Volumes Topic E: Let's Put It to Work

G6M5	Arithmetic in Base Ten	6.NS.2 6.NS.3 6.EE.4	14	Topic A: Warming up to Decimals Topic B: Adding and Subtracting Decimals Topic C: Multiplying Decimals Topic D: Dividing Decimals Topic E: Let's Put It to Work
	In this Mission, students use various models and representations to add, subtract, multiply, and divide decimals and formalize their work with the appropriate standard algorithms.			
	Lessons: Intensive Summer Series	PRIORITY	46	
	Complete Summer Series:		60	
*Refers to the number of Zearn Math Digital Lessons				

Math Intensive Series: Rising 8th Graders

Content for Rising 8th Graders				
Mission	Mission Title	Standards	Lessons*	Topics
G7M2	Introducing Proportional Relationships PRIORITY	7.RP.1 7.RP.2 7.RP.2a 7.RP.2b 7.RP.2c 7.RP.2d 7.G.1 7.G.6	14	Topic A: Representing Proportional Relationships with Tables Topic B: Representing Proportional Relationships with Equations Topic C: Comparing Proportional and Nonproportional Relationships Topic D: Representing Proportional Relationships with Graphs Topic E: Let's Put It To Work
	<p>In this Mission, students extend their understanding of ratios to establish proportional relationships and recognize when a relationship is or is not proportional. Students use tables, equations, and graphs in reasoning about situations that involve constant speed, unit pricing, and measurement conversions.</p>			
G7M5	Rational Number Arithmetic PRIORITY	7.NS.1 7.NS.1a 7.NS.1b 7.NS.1c 7.NS.1d 7.NS.2 7.NS.2a 7.NS.2b 7.NS.2c 7.NS.3 7.EE.4 7.EE.4a	15	Topic A: Interpreting Negative Numbers Topic B: Adding and Subtracting Rational Numbers Topic C: Multiplying and Dividing Rational Numbers Topic D: Four Operations with Rational Numbers Topic E: Solving Equations Where There are Negative Numbers Topic F: Let's Put It to Work
	<p>In this Mission, students use tables and number line diagrams to represent sums and differences of signed numbers or changes in quantities represented by signed numbers such as temperature or elevation, becoming more fluent in writing different numerical addition and subtraction equations that express the same relationship.</p>			
G7M6	Expressions, Equations, and Inequalities PRIORITY	7.NS.1 7.NS.1c 7.EE.1 7.EE.2 7.EE.3 7.EE.4 7.EE.4a 7.EE.4b	16	Topic A: Representing Situations of the Form $px + q = r$ and $p(x + q) = r$ Topic B: Solving Equations of the Form $px + q = r$ and $p(x + q) = r$ and Problems That Lead to Those Equations Topic C: Inequalities Topic D: Writing Equivalent Expressions
	<p>In this Mission, Students learn algebraic methods for solving equations. Students solve linear inequalities in one variable and represent their solutions on the number line.</p>			

G7M4	<p>They understand and use the terms “less than or equal to” and “greater than or equal to,” and the corresponding symbols.</p>			
	<p>Proportional Relationships and Percentages</p> <p>In this Mission, Students use ratios, scale factors, unit rates, and proportional relationships to solve multi-step, real-world problems that involve fractions and percentages. Students represent amounts and corresponding percent rates with double number line diagrams and tables.</p>	<p>7.RP.1 7.RP.2 7.RP.2d 7.RP.3</p>	<p>14</p>	<p>Topic A: Proportional Relationships with Fractions Topic B: Percent Increase and Decrease Topic C: Applying Percentages Topic D: Let’s Put It to Work</p>
	<p>Lessons: Intensive Summer Series</p>	<p>PRIORITY :</p>	<p>51</p>	
	<p>Complete Summer Series:</p>		<p>65</p>	
<p>*Refers to the number of Zearn Math Digital Lessons</p>				



2021–22 Math Learning Recovery

Zearn accelerates math recovery by integrating intervention support into the context of new learning. Zearn can be used standalone or alongside other high-quality instructional materials (HQIM). Zearn's 2021-22 program includes:

Year-Long Grade-Level Digital Math Lessons with Built-in Tier 1 Intervention

400 hours of digital math lessons that work alongside another curriculum, with personalized Boosts that address unfinished learning in the context of new learning, integrating new information and the needed prior knowledge. A quasi-experimental design study [covering 140,000 3rd–5th graders in Louisiana](#) demonstrates that schools whose students consistently complete 2–3 Zearn Math digital lessons weekly alongside daily instruction exhibited 1.5–2.5x higher academic growth relative to schools that used high-quality instructional materials (HQIM) alone. Achievement gains grew in line with lesson completion—more grade-level lessons correlated with more growth. Most importantly, achievement gains were highest for struggling students who worked on grade-level lessons.

Kickstart Math Lessons for Every Unit with Upfront Foundational Support

"Kickstart Lessons" offer 10–15 foundational lessons placed strategically throughout each grade that offer an opportunity to re-engage students with discrete concepts critical to grade-level learning. Kickstart Lesson guidance is intentionally hyper-targeted; a [recent analysis](#) showed that students that learned with targeted foundational content before grade-level learning during the 2020–21 school year exhibited *less struggle* compared to students who learned with foundational content only.

Targeted Intervention Lesson Recommendations for Each Student

As students work through grade-level content on Zearn's platform, an embedded daily diagnostic assesses learning and automatically launches digital Tier 1 intervention. If students need additional support, teachers are given individualized intervention recommendations, assignable to students with a single click. Students can see both their intervention and grade-level assignments in Zearn's online math platform.

Comprehensive Materials for Extended-Time Math Tutoring Programs

Zearn offers materials that can be used by tutors with a range of teaching experience to accelerate grade-level learning for all students. Materials include Zearn Reports to identify and support each student's specific needs as well as mini-lessons designed to accelerate understanding of grade-level content. All materials are aligned to the content students are learning with their teacher during core math time.

Schedule A: Zearn as Core Curriculum

Core math instruction | 75 minutes daily

Teacher-led instruction with Zearn (whole group) / 15 minutes daily

Teachers lead instruction using Zearn materials, starting with word problems and fluency. Then students split into two groups and rotate between two stations to learn new grade-level content.

Grade-level Zearn digital math lessons (independent learning)

30 minutes daily*

Students log in to Zearn’s online math platform and complete grade-level Zearn digital math lessons mathematically aligned to what their teachers are teaching. Each digital math lesson includes built-in Tier 1 intervention support.

**Students do not complete digital lessons on days when unit-level assessments are given*



Teacher-led instruction with Zearn (small group)

30 minutes daily

Teachers teach lessons in small groups; students work with concrete manipulatives, represent their math, and explain their reasoning to their teacher and peers. Teachers use Zearn Reports to tailor each lesson for the specific needs of each student.

Extended time / tutoring | 60 minutes, 5x weekly

Foundational Zearn digital math lessons (independent learning)

30 minutes, 3x weekly

Students have extra time to complete their weekly grade-level digital lesson assignments if needed. Students that need targeted intervention support work through the foundational digital math lessons that their teacher has assigned based on Zearn’s recommendation engine.



Tutoring with Zearn (1:1 or small groups)

30 minutes, 2x weekly

Tutors use Zearn Reports to identify and support each student’s specific needs. Tutors with teaching experience teach student-specific mini-lessons provided in Zearn lesson materials. Tutors with less teaching experience work side-by-side with students through digital lessons, supporting productivity using training provided by Zearn.

Schedule B: Zearn as Complement to HQIM Curriculum

Core math instruction | 75 minutes daily

Teacher-led instruction with HQIM

45 minutes daily

Teachers lead instruction using a HQIM curriculum.

Grade-level Zearn digital math lessons (independent learning)

30 minutes daily*

Each day, students work independently on Zearn's online math platform for independent asynchronous practice. Students complete grade-level Zearn digital math lessons mathematically aligned to what their teachers are teaching. Each digital math lesson includes built-in Tier 1 intervention support and provides notifications to teachers when students need additional support.

**Students do not complete digital lessons on days when unit-level assessments are given*

Extended time / tutoring | 60 minutes, 5x weekly

Foundational Zearn digital math lessons (independent learning)

30 minutes, 3x weekly

Students log in to Zearn's online math platform and have extra time to complete their weekly grade-level digital lesson assignments if needed. Students that need targeted intervention support work through the foundational digital math lessons that their teacher has assigned based on Zearn's recommendation engine.



Tutoring time with Zearn (1:1 or small groups)

30 minutes, 2x weekly

Options depending on teaching experience

Tutors use Zearn Reports to identify and support each student's specific needs. Tutors with teaching experience teach student-specific mini-lessons provided in Zearn lesson materials. Tutors with less teaching experience work side-by-side with students through digital lessons, supporting productivity and lesson completion using tips provided by Zearn.

Grade 1 Math Acceleration

Zearn's 2021–22 Grade 1 math learning recovery program accelerates recovery for all students by integrating intervention support into the context of new learning. With Zearn, teachers can ensure all students are ready to engage with grade-level content. Zearn's program includes:

Summer Intensive Series

For rising 1st graders, the K Summer Intensive Series focuses on the essentials of kindergarten content: counting! The Summer Intensive Series can be tackled digitally and is intended to build the number sense that rising 1st graders need: fluency with addition and subtraction within 5, understanding how to decompose and compose 10 in multiple ways, and understanding numbers 11–19 as ten ones and some further ones.

Grade-Level Lessons With Tier 1 Intervention Support

During the academic year, G1 grade-level lessons connect unfinished learning in the context of new learning, integrating new information and the needed prior knowledge. Each digital lesson includes built-in Tier 1 supports that provide on-ramps into grade-level learning by heavily leveraging concrete ideas and pictorial representations that students are already familiar with from kindergarten.

For schools and districts that experienced significant disrupted learning in the pandemic, Zearn still recommends that **1st grade students start the year on grade-level digital lessons**. Students are fully supported with these grade-level supports because Zearn's G1 lessons immediately use on-ramps and supportive remediation. Students count all ($3+2$ is solved by counting one, two, three...four, five) and then gradually move students to more sophisticated strategies, like counting on ($3+2$ is solved by counting three...four, five) and by teaching students different ways to break apart numbers.

Intervention Lesson Recommendations

If a student or group of students continues to repeatedly struggle on Grade 1 lessons throughout the year, teachers can leverage Zearn's searchable database of recommended intervention lessons. For example, if a student is struggling with lesson 2 in Mission 2, which focuses on using the associative and commutative properties to make ten with three addends, teachers are notified in their reports and can take action to provide a targeted intervention lesson. Zearn has identified critical intervention content for every objective of Grade 1 math. In this case, teachers would "bookmark" Grade 1 Mission 1 Lesson 20, which will enable the student to work through key foundational content: apply the commutative property to count on from a larger addend. Students can see both their intervention and grade-level assignments when logging in to Zearn's online math platform.

Grade 2 Math Acceleration

Zearn’s 2021–22 Grade 2 math learning recovery program accelerates recovery for all students by integrating intervention support into the context of new learning. With Zearn, educators can ensure all students are ready to engage with grade-level content. Zearn’s program includes the Summer Intensive Series, grade-level lessons with Tier 1 intervention support, and intervention lesson recommendations.

Summer Intensive Series

For rising 2nd graders, the G1 Summer Intensive Series focuses on counting, composing, and decomposing, starting with small numbers and working with large enough numbers to prepare them for 2nd grade. Students will do the critical work of identifying a 10 as one unit and then use this learning to identify tens and ones and compare, add, and subtract numbers up to 40. The G1 Summer Intensive Series is intended to build a strong foundation of flexible strategies for all students to fall back on as they engage with Grade 2 content and beyond.

Grade-Level Lessons With Tier 1 Intervention Support

During the academic year, G2 grade-level lessons connect unfinished learning in the context of new learning, integrating new information and the needed prior knowledge. Each digital lesson includes built-in Tier 1 supports that provide on-ramps into grade-level learning by leveraging concrete ideas and pictorial representations that students are already familiar with from work in earlier grades. Additionally, an embedded daily diagnostic assesses each student’s understanding and automatically launches a Boost exactly when students need it, with support and scaffolding from K–1 content or prior G2 units.

For schools and districts that experienced significant disrupted learning in the pandemic, **G2 Kickstart Lessons** offer additional Tier 1 support. These foundational Kickstart Lessons focus on building a strong base of flexible addition and subtraction strategies to ensure that all 2nd grade students can lean on these strategies (e.g., adding 1 more, 1 less, 10 more, and 10 less concretely; decomposing and composing; relating counting on and subtraction) in future grades—including through middle school! Additionally, in order to tackle Grade 2 Mission 2, data from Zearn’s 50 million completed 2nd grade lessons show that students will need support with measurement concepts that were introduced in 1st grade.

G2	Kickstart Lessons	Foundational Content Covered
Mission 1 Add and Subtract Friendly Numbers	Grade 1 Mission 2 Lessons 14–18	Count on and take from ten to solve result unknown and total unknown problems.
Mission 2 Explore Length	Grade 1 Mission 3 Lessons 4–5	Measure the length of objects using the standard unit name of centimeters.

Mission 3 Add and Subtract Bigger Numbers	Grade 1 Mission 4 Lessons 1–4	Represent and manipulate numbers to 40 in various ways. Use a place value chart to organize units.
Mission 4 Add, Subtract, and Solve	Grade 1 Mission 6 Lessons 4–5	Interpret two-digit numbers to 100 as addition. Identify 10 more, 10 less, 1 more, and 1 less than a number.
* No Kickstart Lessons are included for Missions 5, 6, 7, and 8		

Intervention Lesson Recommendations

If a student or group of students continues to repeatedly struggle on Grade 2 lessons throughout the year, teachers can leverage Zearn’s searchable database of recommended intervention lessons. For example, if a student is struggling with lesson 3 in Mission 4, which focuses on adding and subtracting multiples of 10 and some ones within 100, teachers are notified in their reports and can take action to provide a targeted intervention lesson. Zearn has identified critical intervention content for every objective of Grade 2 math. In this case, teachers would “bookmark” Grade 1 Mission 6 Lesson 11, which will enable the student to work through key foundational content: adding a multiple of 10 to any two-digit number within 100. Students can see both their intervention and grade-level assignments when logging in to Zearn’s online math platform.

Grade 3 Math Acceleration

Zearn’s 2021–22 Grade 3 math learning recovery program accelerates recovery for all students by integrating intervention support into the context of new learning. With Zearn, educators can ensure all students are ready to engage with grade-level content. Zearn’s program includes the Summer Intensive Series, grade-level lessons with Tier 1 intervention support, and intervention lesson recommendations.

Summer Intensive Series

For rising 3rd graders, the G2 Summer Intensive Series focuses on the capstone content of K–2: a deep understanding of the base ten system and flexibly being able to add and subtract. This is content that 3rd grade standards assume kids can access. The Summer Intensive Series is intended to build a deep understanding of one or two core ideas, and it can be tackled only digitally.

Grade-Level Lessons With Tier 1 Intervention Support

During the academic year, G3 grade-level lessons connect unfinished learning in the context of new learning, integrating new information and the needed prior knowledge. Each digital lesson includes built-in Tier 1 supports that provide on-ramps into grade-level learning by leveraging concrete ideas and pictorial representations that students are already familiar with from work in earlier grades. Additionally, an embedded daily diagnostic assesses each student’s understanding and automatically launches a Boost exactly when students need it, with support and scaffolding from K–2 content or prior G3 units.

For schools and districts that experienced significant disrupted learning in the pandemic, **G3 Kickstart Lessons** offer additional Tier 1 support. These foundational Kickstart Lessons come just-in-time before the first two missions of 3rd grade. The first Mission of 3rd grade offers a fresh start with multiplication and division, and we’ve identified three lessons from Grade 2 that will give kids a longer on-ramp to equal groups and arrays, to ease into this big new idea. Additionally, in order to tackle Grade 3 Mission 2, data from Zearn’s 50 million completed 3rd grade lessons show that students will need support with the number line and telling time.

G3	Kickstart Lessons	Foundational Content Covered
Mission 1 Multiply and Divide Friendly Numbers	Grade 2 Mission 6 Lessons 5–7	Compose and decompose arrays, relating arrays to repeated addition and counting to find the total.
Mission 2 Measure It	Grade 2 Mission 7 Lesson 21 Grade 2 Mission 8 Lessons 13, 15–16	Identify unknown numbers on a number line diagram. Tell time to the nearest five minutes. Solve elapsed time problems involving whole hours and a half hour.

Intervention Lesson Recommendations

If a student or group of students continues to repeatedly struggle on Grade 3 lessons throughout the year, teachers can leverage Zearn’s searchable database of recommended intervention lessons. For example, if a student is struggling with lesson 4 in Mission 1, which focuses on understanding the meaning of the unknown as the size of the group in division, teachers are notified in their reports and can take action to provide a targeted intervention lesson. Zearn has identified critical intervention content for every objective of Grade 3 math. In this case, teachers would “bookmark” Grade 2 Mission 6 Lesson 15, which will enable the student to work through key foundational content: using math drawings to partition rectangles with square tiles and relate them to repeated addition. Students can see both their intervention and grade-level assignments when logging in to Zearn’s online math platform.

Grade 4 Math Acceleration

Zearn’s 2021–22 Grade 4 math learning recovery program accelerates recovery for all students by integrating intervention support into the context of new learning. With Zearn, educators can ensure all students are ready to engage with grade-level content. Zearn’s program includes the Summer Intensive Series, grade-level lessons with Tier 1 intervention support, and intervention lesson recommendations.

Summer Intensive Series

For rising 4th graders, the G3 Summer Intensive Series focuses on multiplication and division of whole numbers within 100 and ensures students get their first exposure to fractions as numbers, which is essential for their mathematics understanding in upper grades. A strong understanding of fractions in 3rd and 4th grade highly correlates to a mastery of Algebra I in the future.

Grade-Level Lessons With Tier 1 Intervention Support

During the academic year, G4 grade-level lessons connect unfinished learning in the context of new learning, integrating new information and the needed prior knowledge. Each digital lesson includes built-in Tier 1 supports that provide on-ramps into grade-level learning by leveraging concrete ideas and pictorial representations that students are already familiar with from work in earlier grades. Additionally, an embedded daily diagnostic assesses each student’s understanding and automatically launches a Boost exactly when students need it, with support and scaffolding from K–3 content or prior G4 units.

For schools and districts that experienced significant disrupted learning in the pandemic, **G4 Kickstart Lessons** offer additional Tier 1 support. These foundational Kickstart Lessons focus on very specific ideas that were introduced in 3rd grade to give students access to 4th grade content. For example, in 3rd grade, students applied properties of operations to multiplying by 10s. Students have to understand these properties in order to truly understand patterns in the base ten system, the opening Mission of 4th grade.

G4	Kickstart Lessons	Foundational Content Covered
Mission 1 Add, Subtract, and Round	Grade 3 Mission 3 Lessons 19–20	Use the place value chart and place value strategies to multiply by multiples of 10.
Mission 3 Multiply and Divide Big Numbers	Grade 3 Mission 4 Lesson 5–10	Explore area measurement by drawing area models, completing rows and columns, and discovering the area formula for a rectangle. Reason about the area of different rectangles to connect the concept of area measurement to the operation of multiplication.

Mission 5
Equivalent Fractions

Grade 3 Mission 5 Lesson 5–7 Understand fractions as numbers and unit fractions as the basic building blocks that compose other fractions. Build non-unit fractions from unit fractions and identify parts of a whole as fractions.

* No Kickstart Lessons are included for Missions 2, 4, 6, or 7

Intervention Lesson Recommendations

If a student or group of students continues to repeatedly struggle on Grade 4 lessons throughout the year, teachers can leverage Zearn’s searchable database of recommended intervention lessons. For example, if a student is struggling with lesson 7 in Mission 5, which focuses on using the area model to show the equivalence of two fractions, teachers are notified in their reports and can take action to provide a targeted intervention lesson. Zearn has identified critical intervention content for every objective of Grade 3 math. In this case, teachers would “bookmark” Grade 3 Mission 5 Lesson 23, which will enable the student to work through key foundational content: using visual fraction models and the number line to generate simple equivalent fractions. Students can see both their intervention and grade-level assignments when logging in to Zearn’s online math platform.

Grade 5 Math Acceleration

Zearn’s 2021–22 Grade 5 math learning recovery program accelerates recovery for all students by integrating intervention support into the context of new learning. With Zearn, educators can ensure all students are ready to engage with grade-level content. Zearn’s program includes the Summer Intensive Series, grade-level lessons with Tier 1 intervention support, and intervention lesson recommendations.

Summer Intensive Series

For rising 5th graders, the G4 Summer Intensive Series focuses on the capstone content of Grades 3 to 5: a deep understanding of multiplication and division of whole numbers and fractions. With multi-digit multiplication and division, students learn strategies that will allow them to multiply and divide on paper and in their heads. With fractions, students evaluate equivalence, and they learn that the same methods they used for whole number operations can be used to add, subtract, and multiply fractions. The Summer Intensive Series is intended to ensure students have a solid grasp of these ideas to close out 5th grade successfully.

Grade-Level Lessons With Tier 1 Intervention Support

During the academic year, G5 grade-level lessons connect unfinished learning in the context of new learning, integrating new information and the needed prior knowledge. Each digital lesson includes built-in Tier 1 supports that provide on-ramps into grade-level learning by leveraging concrete ideas and pictorial representations that students are already familiar with from work in earlier grades. Additionally, an embedded daily diagnostic assesses each student’s understanding and automatically launches a Boost exactly when students need it, with support and scaffolding from K–4 content or prior G5 units.

For schools and districts that experienced significant disrupted learning in the pandemic, **G5 Kickstart Lessons** offer additional Tier 1 support. These foundational Kickstart Lessons enable students to start the year with a few concrete lessons to extend fractions to decimals before tackling them in the 5th grade content. (In 4th grade, students learn about decimals as an extension of fractions for the first time in their mathematical careers!) G5 Kickstart Lessons also include a few quick recaps of 4th grade multiplication, division, and fractions: how to multiply by multiples of 10, 100, and 1,000 and understanding fraction equivalence.

G5	Kickstart Lessons	Foundational Content Covered
Mission 1 Place Value with Decimal Fractions	Grade 4 Mission 6 Lessons 4–7	Model the equivalence of tenths and hundredths. Model mixed numbers with tenths and hundredths using expanded form, area models, number lines, and the place value chart.
Mission 2 Base Ten Operations	Grade 4 Mission 3 Lessons 4–6	Represent patterns when multiplying by 10, 100, and 1,000. Multiply multiples of 10, 100, and 1,000.

Mission 3 Add and Subtract Fractions	Grade 4 Mission 5 Lessons 7–9 Use the area model, multiplication, and division to show the equivalence of two fractions.
Mission 4 Multiply and Divide Fractions and Decimals	Grade 4 Mission 5 Lessons 28 Solve word problems with line plots. Grade 4 Mission 3 Lessons 14–17 Solve division problems with remainders.
* No Kickstart Lessons are included for Missions 5–6	

Intervention Lesson Recommendations

If a student or group of students continues to repeatedly struggle on Grade 5 lessons throughout the year, teachers can leverage Zearn’s searchable database of recommended intervention lessons. For example, if a student is struggling with lesson 13 in Mission 4, which focuses on multiplying unit fractions by unit fractions, teachers are notified in their reports and can take action to provide a targeted intervention lesson. Zearn has identified critical intervention content for every objective of Grade 3 math. In this case, teachers would “bookmark” Grade 4 Mission 5 Lesson 39, which will enable the student to work through key foundational content: solving multiplicative comparison word problems involving fractions. Students can see both their intervention and grade-level assignments when logging in to Zearn’s online math platform.

Grade 6 Math Acceleration

Zearn’s 2021–22 Grade 6 math learning recovery program accelerates recovery for all students by integrating intervention support into the context of new learning. With Zearn, educators can ensure all students are ready to engage with grade-level content. Zearn’s program includes the Summer Intensive Series, grade-level lessons with Tier 1 intervention support, and intervention lesson recommendations.

Summer Intensive Series

For rising 6th graders, the G5 Summer Intensive Series focuses on essential fractions and decimal operations work. This series starts with decimals to help students solidify and connect their understanding of the base ten system and properties of operations to perform sophisticated arithmetic. Students then extend their understanding of multiplication and division of whole numbers and fraction equivalence to add, subtract, multiply, and divide fractions. The Summer Intensive Series is intended to ensure students are prepared for 6th grade math to be an extension of elementary school work.

Grade-Level Lessons With Tier 1 Intervention Support

During the academic year, G6 grade-level lessons connect unfinished learning in the context of new learning, integrating new information and the needed prior knowledge. Each digital lesson includes built-in Tier 1 supports that provide on-ramps into grade-level learning by leveraging concrete ideas and pictorial representations that students are already familiar with from work in earlier grades. Additionally, an embedded daily diagnostic assesses each student’s understanding and automatically launches a Boost exactly when students need it, with support and scaffolding from K–5 content or prior G6 units.

For schools and districts that experienced significant disrupted learning in the pandemic, **G6 Kickstart Lessons** offer additional Tier 1 support. These foundational Kickstart Lessons come just-in-time before Missions 4 and 5 of 6th grade to support students with revisiting decimal operations, especially division of fractions and decimals.

G6	Kickstart Lessons	Foundational Content Covered
Mission 4 Dividing Fractions	Grade 5 Mission 4 Lessons 25–26	Divide a whole number by a unit fraction. Divide a unit fraction by a whole number.
Mission 5 Arithmetic in Base Ten	Grade 5 Mission 1 Lessons 9–12	Add and subtract decimals. Multiply a decimal fraction by single-digit whole numbers.
* No Kickstart Lessons are included for Missions 1–3 or Missions 6–9		



Intervention Lesson Recommendations

If a student or group of students continues to repeatedly struggle on Grade 6 lessons throughout the year, teachers can leverage Zearn’s searchable database of recommended intervention lessons. For example, if a student is struggling with lesson 5 in Mission 3, which focuses on comparing speeds and prices by calculating rates per 1, teachers are notified in their reports and can take action to provide a targeted intervention lesson. Zearn has identified critical intervention content for every objective of Grade 6 math. In this case, teachers would “bookmark” Grade 5 Mission 4 Lesson 5, which will enable the student to work through key foundational content: solving word problems involving the division of whole numbers with answers in the form of fractions. Students can see both their intervention and grade-level assignments when logging in to Zearn’s online math platform.

Grade 7 Math Acceleration

Zearn’s 2021–22 Grade 7 math learning recovery program accelerates recovery for all students by integrating intervention support into the context of new learning. With Zearn, educators can ensure all students are ready to engage with grade-level content. Zearn’s program includes the Summer Intensive Series, grade-level lessons with Tier 1 intervention support, and intervention lesson recommendations.

Summer Intensive Series

For rising 7th graders, the G6 Summer Intensive Series focuses on ratios and rates so that students can represent and think about them in multiple, flexible ways. This is important because these concepts will be the foundations of proportional relationships and linear equations. The Summer Intensive Series also includes additional Missions that bridge arithmetic from 3rd to 5th grade to the 7th grade arithmetic that requires students to deeply understand and have a higher fluency with operations.

Grade-Level Lessons With Tier 1 Intervention Support

During the academic year, G7 grade-level lessons connect unfinished learning in the context of new learning, integrating new information and the needed prior knowledge. Each digital lesson includes built-in Tier 1 supports that provide on-ramps into grade-level learning by leveraging concrete ideas and pictorial representations that students are already familiar with from work in earlier grades. Additionally, an embedded daily diagnostic assesses each student’s understanding and automatically launches a Boost exactly when students need it, with support and scaffolding from K–6 content or prior G7 units.

For schools and districts that experienced significant disrupted learning in the pandemic, **G7 Kickstart Lessons** offer additional Tier 1 support. These foundational Kickstart Lessons come just-in-time before key Missions of 7th grade to support students with ideas that were introduced for the first time in 6th grade: ratios, rates, negative numbers, and the foundations of equations.

G7	Kickstart Lessons Foundational Content Covered
Mission 1 Scale Drawings	Grade 6 Mission 2 Lessons 11–14 Solve ratio and rate problems.
Mission 2 Introducing Proportional Relationships	Grade 6 Mission 3 Lessons 1, 3–4 Reason about “rate per 1” to solve problems. Convert measurement units.
Mission 4 Proportional Relationships and Percentages	Grade 6 Mission 3 Lessons 11–13 Find percentages. Solve problems about percentages. Relate benchmark percentages to fractions.

Mission 5 Rational Number Arithmetic	Grade 6 Mission 7 Lessons 1–2, 5–6 Explore and interpret negative numbers. Plot positive and negative numbers on a number line. Use absolute value notation.
Mission 6 Expressions, Equations, and Inequalities	Grade 6 Mission 6 Lessons 1–3 Use tape diagrams and balanced hangers to write and solve equations. Use given values to see if an equation is true or false.
* No Kickstart Lessons are included for Mission 3 or Missions 7–9	

Intervention Lesson Recommendations

If a student or group of students continues to repeatedly struggle on Grade 7 lessons throughout the year, teachers can leverage Zearn’s searchable database of recommended intervention lessons. For example, if a student is struggling with lesson 4 in Mission 2, which focuses on writing two equations that represent the same proportional relationship, teachers are notified in their reports and can take action to provide a targeted intervention lesson. Zearn has identified critical intervention content for every objective of Grade 7 math. In this case, teachers would “bookmark” Grade 6 Mission 3 Lesson 7, which will enable the student to work through key foundational content: identifying a unit rate and using it to solve ratio problems. Students can see both their intervention and grade-level assignments when logging in to Zearn’s online math platform.



Grade 8 Math Acceleration

Zearn’s 2021–22 Grade 8 math learning recovery program accelerates recovery for all students by integrating intervention support into the context of new learning. With Zearn, educators can ensure all students are ready to engage with grade-level content. Zearn’s program includes the Summer Intensive Series and grade-level lessons with Tier 1 Intervention Support.

Summer Intensive Series

For rising 8th graders, the G7 Summer Intensive Series focuses on exploring proportional relationships, which is a critical foundation of linear relationships in 8th grade. This series starts with having students work concretely with proportional relationships to set students up to think deeply about linear relationships. Students then work with several other concepts—ranging from engaging with expressions and equations to operating with rational numbers—that are essential foundations for 8th grade.

Grade-Level Lessons With Tier 1 Intervention Support

Zearn is building and piloting Grade 8 lessons throughout the 2021–22 academic school year. Each digital lesson will include built-in Tier 1 supports that provide on-ramps into grade-level learning by leveraging concrete ideas and pictorial representations that students are already familiar with from work in earlier grades. Additionally, an embedded daily diagnostic assesses each student’s understanding and automatically launches a Boost exactly when students need it, with support and scaffolding from K–7 content or prior G8 Missions.

Approach to Kindergarten

Zearn Math for Kindergarten builds strong math foundations for students, with developmentally appropriate curricular materials grounded in concept exploration, concrete and pictorial representations, and math discussion. Zearn's kindergarten curriculum creates access for all students into grade-level content, regardless of their preK experience. Students' daily learning with their teacher and peers is enhanced by software-based activities that further personalize learning and develop number sense.

Teacher Materials

Every day, teachers lead Fluency, Word Problems, and Lessons to build number sense with concrete manipulatives, pictorial representations, and discussion. After daily Fluency, students solve Word Problems independently and then share their work with peers to provide opportunities for student-to-student math discussion. In each Lesson, teachers facilitate thoughtful mathematical discussions between students that allow learners to refer to and build on each other's ideas.

Digital Activities in Kindergarten

Zearn Math for Kindergarten includes developmentally appropriate Digital Activities, which are short and engaging, and they are designed to build number sense. During the Digital Activities, students build number sense at their own pace through an intentional progression from Numbers to 5 to Numbers to 20, and they receive precise digital feedback at the moment of misconception.

Embedded supports in Digital Activities precisely address misconceptions in real time and give all students opportunities to try again. The concrete to pictorial to abstract learning approach serves as the foundation for all Digital Activities, in order to create access by visually supporting developing understanding. Each Mission Overview has specific guiding questions for teachers to support students' mathematical development in the Digital Activity station.

K Digital Activities are intended to build the number sense that rising 1st graders need: fluency with addition and subtraction within 5, understanding how to decompose and compose 10 in multiple ways, and understanding numbers 11–19 as ten ones and some further ones.