Zearn Math Alignment to Illustrative Math

Zearn Math incorporates the best content from the highest-rated OER curricula and works alongside your instruction. This document highlights the alignment between the digital content in Zearn Math and each unit of Illustrative Math.

When using Zearn Math alongside Illustrative Math, kids will learn and practice concepts twice—once with you and once in their digital lessons. When you begin a new unit of instruction, start your students on the same content you are teaching. You can find our alignment recommendations for each unit of Illustrative Math, K-8[1] on the following pages.[2] We recommend students complete digital lessons 3-4 times a week for 30 minutes a day to stay on track to complete all content.

[1]Zearn Math's Grade 8 digital content is currently under development and will be released to pilot users on a rolling basis throughout the 2021-2022 academic school year.

[2]We know the real benefit to students comes when studying the same content in their Zearn Math independent digital lessons as in their live, teacher-led instruction. However, the sequence of content for IM and Zearn Math does not always align perfectly. Our sequence of content has been refined and supported by the over 1 billion problems completed in Zearn Math over the past 7+ years as well as multiple independent studies conducted by external research groups; furthermore, rearranging of the Zearn sequence could alter the concrete to pictorial to abstract (CPA) learning progression built into the Zearn Math digital lessons in such a way where it might be confusing for students. As such, we have made notes of places where teachers might consider rearranging the IM sequence of content to allow for the best student experience within Zearn Math.

Kindergarten

GK	Illustrative Math		Zearn Math Supporting Digital Content
Unit 1 Unit 2 Unit 3	Math in Our World Numbers 1-10 Flat Shapes	→	Numbers to 5: Activities 1-50
Unit 4 Unit 5	Understanding Addition and Subtraction Composing and Decomposing Numbers to 10	→	Numbers to 10: Activities 1-50
Unit 6 Unit 7	Numbers within 20 Solid Shapes	→	Numbers to 15: Activities 1-35
Unit 8	Wrapping It All Up	→	Numbers to 20: Activities 1-35

Grade 1

G1	Illustrative Math		Zearn Math Supporting Digital Content
Unit 1 Unit 2	Adding, Subtracting, and Working with Data Addition and Subtraction Story Problems	→	Mission 1: Add and Subtract Small Numbers
Unit 3	Adding and Subtracting within 20	→	Mission 2: Meet Place Value
Unit 4	Numbers to 100	→	Mission 4: Add and Subtract Big Numbers
Unit 5	Adding within 100 and Subtracting Multiples of 10	→	Mission 6: Add and Subtract to 100
Unit 6	Measuring Length	→	Mission 3: Measure Length
Unit 7	Geometry and Time	→	Mission 5: Work with Shapes
Unit 8	Wrapping It Up	→	during this unit, students should return to any previously uncompleted missions in their Zearn digital lessons

Grade 2

G2	Illustrative Math		Zearn Math Supporting Digital Content
Unit 1	Adding and Subtracting with Data	→	Mission 1: Add and Subtract Friendly Numbers
Unit 2	Subtracting within 100	→	Mission 4: Add, Subtract, and Solve[1]
Unit 3	Measuring Length	→	Mission 2: Explore Length
Unit 4	Representing Addition and Subtraction on the Number Line	→	Mission 7: Length, Money, and Data
Unit 5	Working with Numbers to 1,000 and Understanding Money	→	Mission 3: Counting and Place Value
Unit 6	Geometry and Measuring Time	→	Mission 8: Shapes, Time, and Fractions
Unit 7	Many Ways to Add and Subtract	→	Mission 5: Add and Subtract Big Numbers
Unit 8	Working with Equal Groups	→	Mission 6: Equal Groups
Unit 9	Wrapping It Up	→	during this unit, students should return to any previously uncompleted missions in their Zearn digital lessons

[1]The digital content of Zearn Math's G2M4 aligns to the content of IM's G2 Unit 2. However, we have seen that students build a deep understanding when they engage with the place value concepts and digital manipulatives of Zearn Math's G2M3 prior to G2M4. We lean into the big ideas of G2M3 to create access to the new learning of G2M4, and, when students struggle in G2M4, the built-in remediation and instructional supports leverage the understanding built in G2M3. Engaging with these Missions out of sequence may prove to be challenging for students.

Grade 3

G3	Illustrative Math		Zearn Math Supporting Digital Content
Unit 1	Introducing Multiplication	→	Mission 1: Multiply and Divide Friendly Numbers
Unit 2	What is Area?	→	Mission 4: Find the Area
Unit 3	Wrapping Up 1,000	→	Mission 2: Measure It
Unit 4	Relating Multiplication to Division	→	Mission 3: Multiply and Divide Tricky Numbers
Unit 5	Fractions as Numbers	→	Mission 5: Fractions as Numbers
Unit 6	Measuring Length, Time, Liquid Volume, and Mass	→	Mission 6: Display Data
Unit 7	Polygons and Perimeter	→	Mission 7: Shapes and Measurement
Unit 8	Wrapping It Up	→	during this unit, students should return to any previously uncompleted missions in their Zearn digital lessons

Grade 4

G4	Illustrative Math		Zearn Math Supporting Digital Content
Unit 1	Factors and Multiples	→	Mission 3: Multiply and Divide Big Numbers (Topic F only)[1]
Unit 2 Unit 3	Fraction Equivalence and Comparison Fraction Operations	→	Mission 5: Equivalent Fractions
Unit 4	Large Numbers and Decimal Fractions	→	Mission 1: Add, Subtract, and Round
		→	Mission 6: Decimal Fractions
Unit 5	Multiplicative Comparison and Measurement	→	Mission 2: Measure and Solve
		→	Mission 7: Multiply and Measure
Unit 6	Whole Number Multiplication and Division	→	Mission 3: Multiply and Divide Big Numbers (Topics A-E and G-H only)
Unit 7 Unit 8	Angles and Angle Measurement Area, Perimeter and Classifying Shapes	→	Mission 4: Construct Lines, Angles, and Shapes
Unit 9	Wrapping It Up	→	during this unit, students should return to any previously uncompleted missions in their Zearn digital lessons

[1]While the content of Zearn Math's G4M3 Topic F aligns to the content of IM's G4 Unit 1, this content is best learned within the context of the entire Mission as seen in this excerpt from the G4M3 Mission Overview:

> In Topic F, armed with an understanding of remainders, students explore factors, multiples, and prime and composite numbers within 100 (4.OA.4), gaining valuable insights into patterns of divisibility as they test for primes and find factors and multiples. This prepares them for Topic G's work with multi-digit dividends.

Engaging with the content of G4M3 Topic H outside of the context of the entire Mission may prove to be very challenging for students.

Grade 5

G5	Illustrative Math		Zearn Math Supporting Digital Content
Unit 1	Finding Volume	→	Mission 5: Volume, Area, and Shapes (Topics A and B only)
Unit 2	Fractions as Quotients and Fraction Multiplication	→	Mission 3: Add and Subtract Fractions[1]
Unit 3	Fraction Multiplication and Division	→	Mission 4: Multiply and Divide Fractions and Decimals
Unit 4	Whole Number Multiplication and Division	→	Mission 2: Base Ten Operations
Unit 5	Place Value Patterns and Decimal Operations	→	Mission 1: Place Value with Decimal Fractions
Unit 6	More Fraction Operations	→	during this unit, students should return to any previously uncompleted lessons in Missions 3 and/or 4
Unit 7	Coordinate Grid and Shapes	→	Mission 6: The Coordinate Plane
		→	Mission 5: Volume, Area, and Shapes (Topic D only)
Unit 8	Wrapping It Up	→	during this unit, students should return to any previously uncompleted missions in their Zearn digital lessons

[1]The content of IM's G5 Unit 2 aligns to the digital content of Zearn Math's G5M4. However, we have seen that students build a deep understanding when they engage with the fraction concepts and digital manipulatives of Zearn Math's G5M3 prior to G5M4. The digital lessons in G5M4 lean into the big ideas of G5M3, including fraction equivalence and addition of fractions, to create access to the new learning of G5M4, and, when students struggle in G5M4, the built-in remediation and instructional supports leverage the understanding built in G5M3. Engaging with these Missions out of sequence may prove to be challenging for students.

Grade 6

G6	Illustrative Math		Zearn Math Supporting Digital Content
Unit 1	Area and Surface Area	→	Mission 1: Area and Surface Area
Unit 2	Introducing Ratios	→	Mission 2: Introducing Ratios
Unit 3	Unit Rates and Percentages	→	Mission 3: Unit Rates and Percentages
Unit 4	Dividing Fractions	→	Mission 4: Dividing Fractions
Unit 5	Arithmetic in Base Ten	→	Mission 5: Arithmetic in Base Ten
Unit 6	Expressions and Equations	→	Mission 6: Expressions and Equations
Unit 7	Rational Numbers	→	Mission 7: Rational Numbers
Unit 8	Data Sets and Distributions	→	Mission 8: Data Sets and Distributions
Unit 9	Putting it ALL Together	→	during this unit, students should return to any previously uncompleted missions in their Zearn digital lessons

Grade 7

G7	Illustrative Math		Zearn Math Supporting Digital Content
Unit 1	Scale Drawings	→	Mission 1: Scale Drawings
Unit 2	Introducing Proportional Relationships	→	Mission 2: Introducing Proportional Relationships
Unit 3	Measuring Circles	→	Mission 3: Measuring Circles
Unit 4	Proportional Relationships and Percentages	→	Mission 4: Proportional Relationships and Percentages
Unit 5	Rational Number Arithmetic	→	Mission 5: Rational Number Arithmetic
Unit 6	Expressions, Equations, and Inequalities	→	Mission 6: Expressions, Equations, and Inequalities
Unit 7	Angles, Triangles, and Prisms	→	Mission 7: Angles, Triangles, and Prisms
Unit 8	Probability and Sampling	→	Mission 8: Probability and Sampling
Unit 9	Putting it ALL Together	→	during this unit, students should return to any previously uncompleted missions in their Zearn digital lessons

Grade 8

Zearn Math's Grade 8 digital content is currently under development and will be released to pilot users on a rolling basis throughout the 2021-2022 academic school year.

G8	Illustrative Math		Zearn Math Supporting Digital Content
Unit 1	Rigid Transformations and Congruence	→	Mission 1: Rigid Transformations and Congruence
Unit 2	Dilations, Similarity, and Introducing Slope	→	Mission 2: Dilations, Similarity, and Introducing Slope (coming soon)
Unit 3	Linear Relationships	→	Mission 3: Linear relationships (coming soon)
Unit 4	Linear Equations and Linear Systems	→	Mission 4: Linear Equations and Linear Systems (coming soon)
Unit 5	Functions and Volume	→	Mission 5: Functions and Volume (coming soon)
Unit 6	Associations in Data	→	Mission 6: Associations in Data (coming soon)
Unit 7	Exponents and Scientific Notation	→	Mission 7: Exponents and Scientific Notation
Unit 8	Pythagorean Theorem and Irrational Numbers	→	Mission 8: Pythagorean Theorem and Irrational Numbers (coming soon)
Unit 9	Putting it ALL Together	→	during this unit, students should return to any previously uncompleted missions in their Zearn digital lessons