



Accelerate Math Grade 6 Illustrative Math

The resources linked below are built as proactive support to upcoming classroom content in order to ensure students' readiness for grade level mathematics. Each grade level document includes correlations to in-class lessons, links to resources including a google slide presentation for each tutoring session, links to [virtual manipulatives](#) and [Desmos](#) activities when available. Sessions were designed for virtual instruction, but teachers should adjust to the mode of delivery, technology and resources available to them. Elements of the presentation can be written on paper and shown to students through a document camera, imported into other presentation software, or used with students physically present in class.

To prepare for sessions, tutors will:

- Read the "Tutor's preparation slide."
- Study the Google Slides presentation.
- Follow the "Speaker Notes" in the Google Slide Presentation.

Accelerate Math Resources are developing and will be posted through the end of 2021. Please provide suggestions for improvement by filling out the [Accelerate Math feedback](#) form.



Grade 6 - Illustrative Math

Session Accelerates to these Grade-Level Lessons	Session Focus Topic:	Connected Grade-Level Standards.	Source Content and Foundational Standards	Resources
Unit 4 Lessons 1-5	Use diagrams and equations to represent multiplication and division of fractions and whole numbers	6.NS.A.1	Based on content from Achieve the Core (5.NF.B.4-Illustrative Math Tasks) and Illustrative Math, Grade 5, Unit 3, Lesson 11 5.NF.B.4, 5.NF.B.7b	<ul style="list-style-type: none"> • Whiteboard or paper
Unit 4 Lessons 6-9	Represent and solve multiplication of fractions with diagrams and equations.	6.NS.A.1	Illustrative Math, Grade 5, Unit 3, Lessons 3 and 4 5.NF.B.4	<ul style="list-style-type: none"> • Whiteboard or paper
Unit 4 Lessons 10-14	represent and solve division of a whole number by a fraction with equations apply fraction operation skills to area and solving equations	6.NS.A.1, 6.G.A.1, 6.G.A.2	Illustrative Math, Grade 5, Unit 3, Lessons 13 and 7 5.NF.B.7b, 5.NF.B.4b	<ul style="list-style-type: none"> • Whiteboard or paper
Unit 4 Lessons 15-17	explain and solve division equations by using the inverse relationship between multiplication	6.NS.A.1, 6.G.A.2	Illustrative Math, Grade 5, Unit 3, Lessons 14 and 18 5.NF.B.7	<ul style="list-style-type: none"> • White board or paper



Session Accelerates to these Grade-Level Lessons	Session Focus Topic:	Connected Grade-Level Standards.	Source Content and Foundational Standards	Resources
Unit 5 Lesson 1-4	<p>represent, read and write numbers to the thousandths place</p> <p>subtract decimals using strategies based on place value and the relationship between addition and subtraction.</p>	6.NS.B.3	<p>Illustrative Math, Grade 5, Unit 3, Lessons 1</p> <p>5.NBT.A.1, 5.NBT.B.7</p>	<ul style="list-style-type: none"> • White board or paper
Unit 5 Lessons 5-8	<p>Use diagrams and equations to represent multiplication and division of fractions and whole numbers.</p>	6.NS.B.3	<p>Illustrative Math, Grade 5, Unit 5, Lessons 15 and 19</p> <p>5.OA.A.2, 5.NBT.B.7, 5.NBT.A.1</p>	<ul style="list-style-type: none"> • Whiteboard or paper • Grid paper linked in slides
Unit 5 Lessons 9-13	<p>Represent and solve multiplication of fractions with diagrams and equations.</p>	6.NS.B.3	<p>Illustrative Math, Grade 5, Unit 4, Lesson 11, Unit 5, Lesson 23</p> <p>5.NBT.A.6, 5.NBT.B.7</p>	<ul style="list-style-type: none"> • Whiteboard or paper



Session Accelerates to these Grade-Level Lessons	Session Focus Topic:	Connected Grade-Level Standards.	Source Content and Foundational Standards	Resources
Unit 6 Lessons 1-5	Represent, understand, and solve one- step equations using diagrams and algebraic reasoning.	6.EE.B.6 6.EE.B.5 6.EE.B.7	Khan Academy, Illustrative Mathematics, Grade 6, Unit 6 Lesson 2 Illustrative Math, Grade 6, Unit 6, Lessons 1, 2, 3, and 4 No foundational standards in 5th Grade.	<ul style="list-style-type: none"> Whiteboard or paper
Unit 6 Lessons 6-8	Understand mathematical properties. Read, write, and evaluate expressions with variables.	6.EE.A.2.a 6.EE.A.2.c 6.EE.B.6 6.EE.B.7 6.EE.B.5 6.EE.B.4	Engage NY, Grade 6, Unit 4: Topic C, Lesson 8 Topic E, Lessons 15, 16, 17 Topic F, Lessons 18 and 20 No foundational standards in 5th Grade.	<ul style="list-style-type: none"> White board or paper
Unit 6 Lessons 9-11	Understand the distributive property. Apply it to evaluate expressions and write equivalent expressions while considering order of operations	6.EE.B.2 6.EE.B.3 6.EE.B.4	Engage NY, Grade 6, Unit 4: Topic D, Lessons 11 and 12 5.OA.A.2	<ul style="list-style-type: none"> White board or paper



Session Accelerates to these Grade-Level Lessons	Session Focus Topic:	Connected Grade-Level Standards.	Source Content and Foundational Standards	Resources
Unit 6 Lessons 12-15	Exponents and exponential expressions	6.EE.1	Engage NY: Grade 5, Module 1, Topic A, Lesson 3 Grade 6, Module 4, Topic B, Lesson 5 5.NBT.B.5, 5.NBT.A.2, 5.NBT.B.7	<ul style="list-style-type: none"> • Whiteboard or paper • Blank expressions chart
Unit 6 Lessons 16-18	Generating numerical patterns and representing them on a coordinate grid	6.EE.9	Illustrative Math: Grade 5, Unit 7, Lessons 9 and 11 5.OA.B.3	<ul style="list-style-type: none"> • Whiteboard or paper • Partner Activity Session 1 • Partner Activity Session 2 • Graphs Handout
Unit 7 Lessons 1-5	Integers and their opposites	6.NS.C.5 6.NS.C.6 6.NS.C.6.a 6.NS.C.7.a 6.NS.C.7.b	Engage NY: Grade 6, Module 3, Topic A, Lessons 4 and 5 Grade 6, Module 3, Topic B, Lesson 8 No foundational standards in 5th Grade.	<ul style="list-style-type: none"> • Whiteboard or paper • Session 2 - Ordering Rational Numbers Chart



Session Accelerates to these Grade-Level Lessons	Session Focus Topic:	Connected Grade-Level Standards.	Source Content and Foundational Standards	Resources
Unit 7 Lessons 6 - 10	Absolute value and numeric inequality statements	6.EE.A.2.b 6.EE.B.5 6.EE.B.6 6.EE.B.8 6.NS.C.6 6.NS.C.6.a 6.NS.C.7 6.NS.C.7.a-d	Engage NY: Grade 6, Module 3 Topic B, Lesson 11 Grade 6, Module 3, Topic B, Lesson 10 No direct foundational standards in 5th Grade	<ul style="list-style-type: none"> • White board or paper.
Unit 7 Lessons 11-15	Coordinate plane	6.NS.C.6 6.NS.C.6.b 6.NS.C.6.c 6.NS.C.8 6.G.A.3	Illustrative Mathematics: Grade 5, Unit 7, Lesson 2 Engage NY: Grade 6, Module 3, Topic C, Lesson 18 5.OA.A.2, 5.G.A.1, 5.G.A.2	<ul style="list-style-type: none"> • White board or paper • Coordinate grids

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