



Accelerate Math Grade 8 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 8 - 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	Solve equations	8.EE.C, 8.EE.C.7	Grade 7, Unit 6, Lessons 7-9 7.EE.B.4a	<ul style="list-style-type: none"> Whiteboard or paper Printable Worksheet 1 Printable Worksheet 2
Unit 4, Lessons 6-9	Solve equations using different approaches Write and solve equations given a situation	8.EE.C, 8.EE.C.7, 8.EE.C.7.a, 8.EE.C.7.b, 8.EE.C.8, 8.EE.C.8.b	Grade 7, Unit 6, Lessons 10-11 7.EE.B.4a	<ul style="list-style-type: none"> Whiteboard or paper Printable Worksheet 1 Printable Worksheet 2
Unit 4, Lessons 10-12	Find the rate of change as a slope Interpret the y-intercept given a context.	8.EE.C, 8.EE.C.8, 8.EE.C.8.a, 8.EE.C.8.b	Grade 8, Revisit Unit 3, Lessons 4-10 + tasks from achievethecore.org 8.EE.B.5	<ul style="list-style-type: none"> Whiteboard or paper Printable Worksheet 1 Printable Worksheet 2
Unit 4, Lessons 13-15	Graph and find the solution to systems of equations. Explain the solution given a context.	8.EE.C.8, 8.EE.C.8.a, 8.EE.C.8.b	Grade 8, Revisit Unit 4, Lessons 10-13 + tasks from achievethecore.org 8.EE.C.8	<ul style="list-style-type: none"> Whiteboard or paper Printable Worksheet 1 Printable Worksheet 2



Session Accelerates to these Grade-Level Lessons	Session Focus Topic:	Connected Grade-Level Standards.	Source Content and Foundational Standards	Resources
Unit 5, Lessons 1-4	Find the constant of proportionality and write an equation representing the relationship. Investigate functions in terms of inputs and outputs.	8.F.A, 8.F.A.1, 8.F.A.3	Grade 7, Unit 2, Lessons 5-11, Grade 8, Unit 5, Lesson 1 & 3 + tasks from achievethecore.org 8.F.A.1	<ul style="list-style-type: none"> • Whiteboard or paper • Printable Worksheet 1 • Printable Worksheet 2
Unit 5, Lessons 5-8	Graphs and other representations of functions.	8.F.A.1, 8.F.A.2, 8.F.A.3	MathMapShell.org Grade 8, Unit 5, optional activity (lesson 7), 8.F.A.1, 8.F.A.2, 8.F.A.3	<ul style="list-style-type: none"> • Whiteboard or paper • Printable Worksheet 1 • Printable Worksheet 2
Unit 5, Lessons 9-12	Linear Models and Piecewise Linear Functions	8.F.B.4, 8.F.B.5	IM Algebra I Supports, Unit 4 tasks from achievethecore.org 8.F.B.4, 8.F.B.5, 8.SP.A.3	<ul style="list-style-type: none"> • Whiteboard or paper • Printable Worksheet 1 • Printable Worksheet 2
Unit 5, Lessons 13-22	Volume of Cones, Cylinders, and Spheres <i>*Due to LDOE's 8th grade achievement level descriptors classifying 8.G.C.9 as an additional and supporting standard, all Unit 5, Lessons 13-22 have been combined for one week of Accelerate Lesson support.</i>	8.G.C.9	Grade 7, Unit 3, Lessons 7-9 Grade 7, Unit 7, Lesson 12 7.G.B.4, 7.G.B.6	<ul style="list-style-type: none"> • Whiteboard or paper • Printable Worksheet 1 • Printable Worksheet 2



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	Organizing Data and Scatter Plots	8.SP.A.1, 8.SP.A.2, 8.SP.A.3	8.SP.A.1 Illustrative Mathematics, Algebra I Supports, Unit 3, Lesson 5	<ul style="list-style-type: none"> • Whiteboard or paper • Printable Worksheet 1 • Printable Worksheet 2
Unit 6, Lessons 6-11	Organizing Data and Scatter Plots	8.SP.A.4	8.SP.A.4 Grade 8, Unit 6, Lessons 9-11	<ul style="list-style-type: none"> • Whiteboard or paper • Printable Worksheet 1 • Printable Worksheet 2
Unit 7, Lessons 1-4	Exponents with Multiplication and Division	8.EE.A.1	Grade 6, Unit 6, Lessons 12-13 6.EE.A.1	<ul style="list-style-type: none"> • Whiteboard or paper • Printable Worksheet 1 • Printable Worksheet 2
Unit 7, Lessons 5-8	Exponents and Expressions	8.EE.A.1	Grade 6, Unit 6, Lessons 12-13 6.EE.A.1, 6.EE.A.2a, 6.EE.B.5	<ul style="list-style-type: none"> • Whiteboard or paper • Printable Worksheet 1 • Printable Worksheet 2
Unit 7, Lessons 9-12	Introduction of Scientific Notation	8.EE.A.3, 8.EE.A.4	Task from achievethecore.org, Coherence Map 5.NBT.A.2 Grade 8, Unit 7, Lesson 9	<ul style="list-style-type: none"> • Whiteboard or paper • Printable Worksheet 1 • Printable Worksheet 2



Session Accelerates to these Grade-Level Lessons	Session Focus Topic:	Connected Grade-Level Standards.	Source Content and Foundational Standards	Resources
Unit 7, Lessons 13-16	Basic Operations with Scientific Notation	8.EE.A.3, 8.EE.A.4	Khan Academy, Illustrative Mathematics Lessons 8.EE.A.3	<ul style="list-style-type: none"> • Whiteboard or paper • Printable Worksheet 1 • Printable Worksheet 2
Unit 8, Lessons 1-5	Areas of Squares, Square Roots and Irrational Numbers	8.EE.A.2, 8.NS.A.2	Grade 6, Unit 1, Lesson 10 6.G.A.1 Grade 8, Unit 8, Lesson 3 8.EE.A.2, 8.NS.A.1	<ul style="list-style-type: none"> • Whiteboard or paper • Printable Worksheet 1 • Printable Worksheet 2

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