

Algebra I Prep

Oak Park Middle School

Summer 2020

To ensure students are prepared for on grade level learning, the following “critical math lessons” were provided this summer as part of the LDOE Strong Start program. The LDOE, in partnership with Louisiana Public Broadcasting (LPB), Great Minds, Illustrative Math (IM), and SchoolKit, has provided videos and print materials for these “critical” lessons.

To help prepare for Algebra I in 8th grade, the following 7th and 8th grade Units are suggested.

- For each Unit, links to a family page, lesson videos and student pages are provided.
- Before starting a lesson, the student needs to have pencil and paper to work along with the instructor. It would be helpful to have the student pages printed.
- **Be sure to organize and save student work so that it can be reviewed upon request.**
- Click on a link below to get started.

If you need help, email Beverly.Crawford@cpsb.org, phoebe.campbell@cpsb.org, or Tamara.Clark@cpsb.org.

[7th grade Unit 5 Rational Number Arithmetic](#)

[7th grade Unit 6 Expressions, Equations, and Inequalities](#)

[8th grade Unit 4 Linear Equations and Linear Systems](#)

[8th grade Unit 5 Functions and Volume](#)

[8th grade Unit 7 Exponents and Scientific Notation](#)

[Resources](#)

7th grade Unit 5 Rational Number Arithmetic

Standards: 7.NS.A., 7.NS.A.1, 7.NS.A.1.a, 7.NS.A.1.b, 7.NS.A.1.c, 7.NS.A.2, 7.NS.A.2.a, 7.NS.A.2.c, 7.NS.A.2.d, 7.NS.A.3, 7.RP.A, 7.RP.A.2, 7.RP.A.3, 7.RP.A.2, 7.EE.B.4.a

Link to Family Page: <https://im.kendallhunt.com/MS/families/2/5/index.html>

Click on the link to watch videos for each lesson. Print student pages as needed.

Lesson	Video	Student Pages
1 and 2 Interpreting Negative Numbers	☐ Grade 7 Unit 5 Lessons 1,2	7-5-1 Lesson 7-5-2 Lesson
3 and 4 Changing Elevation	☐ Grade 7 Unit 5 Lesson 3 and 4	7-5-3 Lesson 7-5-4 Lesson
5 Representing Subtraction	☐ Grade 7 Unit 5 Lesson 5	7-5-5 Lesson
6 Subtracting Rational Numbers	☐ Grade 7 Unit 5 Lesson 6	7-5-6 Lesson
8 Position, Speed, and Direction	☐ Grade 7 Unit 5 Lesson 8	7-5-8 Lesson
9 Multiplying Rational Numbers	☐ Grade 7 Unit 5 Lesson 9	7-5-9 Lesson
11 Dividing Rational Numbers	☐ Grade 7 Unit 5 Lesson 11	7-5-11 Lesson
13 and 14 Expressions/Solving Problems with Rational Numbers	☐ Grade 7 Unit 5 Lesson 13,14	7-5-13 Lesson 7-5-14 Lesson

7th grade Unit 6 Expressions, Equations, and Inequalities

Standards: 7.EE.A.1, 7.EE.B.3, 7.EE.B.4, 7.EE.B.4.a, 7.NS.A.1, 7.NS.A.1.c

Link to Family Page: <https://im.kendallhunt.com/MS/families/2/6/index.html>

Click on the link to watch videos for each lesson. Print student pages as needed.

Lesson	Video	Student Pages
10 Different Options for Solving One Equation	☐ Grade 7 Unit 6 Lesson 10	7-6-10 Lesson
11 Using Equations to Solve Problems	☐ Grade 7 Unit 6 Lesson 11	7-6-11 Lesson
18 Subtraction in Equivalent Expressions	☐ Grade 7 Unit 6 Lesson 18	7-6-18 Lesson
20 Combining Like Terms (Part 1)	☐ Grade 7 Unit 6 Lesson 20	7-6-20 Lesson
21 Combining Like Terms (Part 2)	☐ Grade 7 Unit 6 Lesson 21	7-6-21 Lesson

8th grade Unit 4 Linear Equations and Linear Systems

Standards: 8.EE.C, 8.EE.C.7, 8.EE.C, 8.EE.C.7, 8.EE.C.8, 8.EE.C.8.a, 8.EE.C.8.b, 8.EE.C.8.c

Link to Family Page: <https://im.kendallhunt.com/MS/families/3/4/index.html>

Click on the link to watch videos for each lesson. Print student pages as needed.

Lesson	Video	Student Pages
3 Balanced Moves	☐ Grade 8 Unit 4 Lesson 3	8-4-3 Lesson
4 and 5 More Balanced Moves	☐ Grade 8 Unit 4 Lessons 4 and 5	8-4-4 Lesson 8-4-5 Lesson
9 and 10 When Are They the Same?	☐ Grade 8 Unit 4 Lessons 9 and 10	8-4-9 Lesson 8-4-10 Lesson
12 Systems of Equations	☐ Grade 8 Unit 4 Lesson 12	8-4-12 Lesson
13 and 14 Solving Systems of Equations	☐ Grade 8 Unit 4 Lessons 13 and 14	8-4-13 Lesson 8-4-14 Lesson
15 Writing Systems of Equations	☐ Grade 8 Unit 4 Lesson 15	8-4-15 Lesson

8th grade Unit 5 Functions and Volume

Standards: 8.F.A.1, 8.F.A.2, 8.F.A.3, 8.F.B.4, 8.F.B.5

Link to Family Page: <https://im.kendallhunt.com/MS/families/3/5/index.html>

Click on the link to watch videos for each lesson. Print student pages as needed.

Lesson	Video	Student Pages
2 and 3 Introduction to Functions and Equations for Functions	☐ Grade 8 Unit 5 Lessons 2 and 3	8-5-2 Lesson 8-5-3 Lesson
4 Tables, Equations	☐ Grade 8 Unit 5 Lesson 4	8-5-4 Lesson
5 More Graphs of Functions	☐ Grade 8 Unit 5 Lesson 5	8-5-5 Lesson
8 Linear Functions	☐ Grade 8 Unit 5 Lesson 8	8-5-8 Lesson
9 and 10 Linear Models	☐ Grade 8 Unit 5 Lesson 9 and 10	8-5-9 Lesson 8-5-10 Lesson

8th grade Unit 7 Exponents and Scientific Notation

Standards: 8.EE.A.1, 8.EE.A.3, 8.EE.A.4

Link to Family Page: <https://im.kendallhunt.com/MS/families/3/7/index.html>

Click on the link to watch videos for each lesson. Print student pages as needed.

Lesson	Video	Student Pages
2 Multiplying Powers of Ten	☐ Grade 8 Unit 7 Lesson 2	8-7-2 Lesson
3 Powers of Powers of 10	☐ Grade 8 Unit 7 Lesson 3	8-7-3 Lesson
4 Dividing Powers of 10	☐ Grade 8 Unit 7 Lesson 4	8-7-4 Lesson
5 and 6 Negative Exponents with Powers of 10 and What about Other Bases?	☐ Grade 8 Unit 7 Lesson 5 and 6	8-7-5 Lesson 8-7-6 Lesson
8 Combining Bases	☐ Grade 8 Unit 7 Lesson 8	8-7-8 Lesson

Resources

- “Louisiana Department of Education Strong Start: July 2020 Math Lesson Broadcasting”, https://www.louisianabelieves.com/docs/default-source/strong-start-2020/strong-start_-july-2020-math-lesson-broadcasting.pdf?sfvrsn=9d85981f_20
- Illustrative Mathematics, free curriculum materials, <https://im.kendallhunt.com/MS/index.html>
- Critical math lesson videos from The Department, Louisiana Public Broadcasting (LPB), Great Minds, Illustrative Math (IM), and SchoolKit:
 - Grade 7: <http://schoolkitgroup.com/video-grade-7/>
 - Grade 8: <http://schoolkitgroup.com/video-grade-8/>