

Louisiana Believes

Louisiana Guide to Implementing Illustrative Mathematics: Intensive Algebra I

To assist teachers with the implementation of the Illustrative Mathematics curriculum for Intensive Algebra I, this document provides multiple layers of guidance regarding how Illustrative Mathematics lessons correlate with the Louisiana Student Standards for Mathematics (LSSM). Illustrative Mathematics is a focused, coherent math curriculum which provides ample instructional guidance for teachers. This Louisiana Guide to Implementing Illustrative Mathematics goes a step further to point out places in which teachers may need to make strategic decisions considering student needs and time availability.

This guidance document is considered a “living” document as we believe that teachers and other educators will find ways to improve the document as they use it. Please send feedback to classroomsupporttoolbox@la.gov so that we may use your input when updating this guide.



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Intensive Algebra I

Intensive Algebra I

The following sample schedule integrates the Algebra I Illustrative Math curriculum, Illustrative Math Algebra I Supports Materials, LEAP 360 Diagnostic and LEAP 360 Interim Assessments to allow teachers to move at a pace that best supports student learning. The Algebra I Supports Materials are designed to help students who need additional support in their Algebra I course. Each Algebra I lesson has a corresponding Algebra I Supports lesson. The Algebra I Supports Materials lesson helps students learn or remember a skill or concept that is needed to access and find success with the associated Algebra I lesson.

- For the Illustrative Math Intensive Algebra I course, students should experience each Algebra I Supports Materials lesson before the corresponding Algebra I lesson.
- To include both the Algebra I Supports lesson and the on-grade-level Algebra I lesson, days of Instruction are based on blocks of 90 to 100 minutes.

Suggested Implementation Calendar¹

Algebra I	Unit	Approximate Timeframe	Number of Lessons	Additional Notes
Administer Algebra I LEAP 360 Diagnostic The Illustrative Math LEAP 360 Diagnostic Mapping can also be used to support teachers in identifying where students may have unfinished learning and need additional supports.				
Weeks 2-4	Unit 1: One-Variable Statistics	10-12 days	16 lessons	Optional Lesson(s): 2, 5, 6, 7, 8
Weeks 5-10	Unit 2: Linear Equations, Inequalities, and Systems	29-31 days	26 lessons	Optional Lesson(s): None
Weeks 11-12	Unit 3: Two-Variable Statistics	11-12 days	10 lessons	Optional Lesson(s): 10

¹ Adapted from guidance developed by Illustrative Mathematics

Algebra I	Unit	Approximate Timeframe	Number of Lessons	Additional Notes
Weeks 13-17	Unit 4: Functions	21-22 days	18 lessons	Optional Lesson(s): 5, 15, 16, 17
Administer Algebra I LEAP 360 Interim Form 1				
Weeks 18-22	Unit 5: Introduction to Exponential Functions	23-25 days	21 lessons	Optional Lesson(s): 14
Weeks 23-26	Unit 6: Introduction to Quadratic Functions	19-21 days	17 lessons	Optional Lesson(s): 13
Weeks 27-32	Unit 7: Quadratic Equations	28-29 days	24 lessons	Optional Lessons(s): None
Administer Algebra I LEAP 360 Interim Form 2				
Week 33	Reserved for state testing (dates will vary)			
Weeks 34-36	To best prepare your students for success in future math courses, use this time to continue pursuing mastery of A1: A-REI.B.4a. If students have mastered completing the square, a review of Grade 8 Geometry standards may prove advantageous for preparing students for future success.			

Alignment to Louisiana Student Standards for Mathematics²

Units of Study	Alignment to the Louisiana Student Standards for Mathematics (LSSM)
Unit 1: One-Variable Statistics	Aligned to LSSM
Unit 2: Linear Equations, Inequalities, and Systems	Aligned to LSSM
Unit 3: Two-Variable Statistics	Aligned to LSSM
Unit 4: Functions	Lessons 15-17 focus on inverse functions which align to Algebra II content standard A2:F-BF.B.4. These lessons can be reserved for after statewide testing.
Unit 5: Introduction to Exponential Functions	Aligned to LSSM
Unit 6: Introduction to Quadratic Functions	Aligned to LSSM
Unit 7: Quadratic Equations	Aligned to LSSM; Activities in Lesson 24 requiring students to solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically go beyond the scope of the LSSM in Algebra I. These activities can be reserved for after statewide testing.

² Developed in partnership with Illustrative Mathematics

Focus in the Standards

Not all content at given grades is emphasized equally in the standards. Some clusters require greater emphasis than others based on the depth of ideas, the time that they take to master, and/or their importance to future mathematics or the demands of college and career readiness. More time in these areas is also necessary for students to meet the Louisiana Standards for Mathematical Practices.

To say that some things have greater emphasis is not to say that anything in the standards can safely be neglected in instruction. Neglecting material will leave gaps in student skill and understanding and may leave students unprepared for the challenges of a later grade. Students should spend the large majority of their time on the major work on the grade (■). Supporting work (■) and, where appropriate, additional work (■) can engage students in the major work of the grade.

Algebra I: Standards by Unit						
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
A1: S-ID.A.2 A1: S-ID.A.3	A1: A-CED.A.1 A1: A-CED.A.2 A1: A-CED.A.3 A1: A-CED.A.4 A1: N-Q.A.2 A1: F-LE.A.2 A1: A-SSE.A.1 A1: A-REI.A.1 A1: A-REI.B.3 A1: A-REI.D.10 A1: A-REI.C.5 A1: A-REI.C.6 A1: A-REI.D.12	A1: S-ID.B.5 A1: S-ID.B.6 A1: S-ID.B.6a A1: S-ID.B.6b A1: S-ID.B.6c A1: S-ID.C.7 A1: S-ID.C.8 A1: S-ID.C.9 A1: N-Q.A.3	A1: N-Q.A A1: N-Q.A.2 A1: F-IF.A.1 A1: F-IF.A.2 A1: F-IF.B A1: F-IF.B.4 A1: F-IF.B.5 A1: F-IF.B.6 A1: F-IF.C A1: F-IF.C.7 A1: F-IF.C.7b A1: F-BF.A.1 A1: F-BF.A.1a A1: F-BF.B.3 A1: S-ID.B.6	A1: A-CED.A.2 A1: A-SSE.A A1: A-SSE.A.1 A1: A-SSE.A.1b A1: A-SSE.B.3c A1: F-BF.A A1: F-BF.A.1 A1: F-BF.A.1a A1: F-IF.A.2 A1: F-IF.B A1: F-IF.B.4 A1: F-IF.B.5 A1: F-IF.B.6 A1: F-IF.C.7 A1: F-IF.C.7e	A1: A-SSE.A A1: A-SSE.A.1 A1: A-SSE.A.2 A1: A-SSE.B.3 A1: F-BF.A A1: F-BF.A.1 A1: F-BF.A.1.a A1: F-BF.B.3 A1: F-IF.A.2 A1: F-IF.B.4 A1: F-IF.B.5 A1: F-IF.C A1: F-IF.C.7 A1: F-IF.C.7.a A1: F-IF.C.8	A1: A-CED.A.1 A1: A-CED.A.2 A1: A-CED.A.3 A1: A-REI.A A1: A-REI.A.1 A1: A-REI.B.4 A1: A-REI.B.4.a A1: A-REI.B.4.b A1: A-REI.D A1: A-REI.D.10 A1: A-SSE.A A1: A-SSE.A.2 A1: A-SSE.B.3 A1: A-SSE.B.3.a A1: A-SSE.B.3.b

Algebra I: Standards by Unit						
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
			A1: S-ID.B.6a A1: S-ID.B.6c A1: A-SSE.A.1 A1: A-REI.A.1 A1: A-REI.D.11 A1: A-CED.A.4	A1: F-LE.A.1 A1: F-LE.A.1a A1: F-LE.A.1b A1: F-LE.A.1c A1: F-LE.A.2 A1: F-LE.A.3 A1: F-LE.B.5 A1: N-Q.A.1 A1: N-Q.A.2 A1: N-Q.A.3 A1: S-ID.B.6a	A1: F-IF.C.8.a A1: F-IF.C.9 A1: F-LE.A A1: F-LE.A.2 A1: F-LE.A.3	A1: F-IF.A.2 A1: F-IF.B.4 A1: F-IF.B.5 A1: F-IF.C A1: F-IF.C.7.a A1: F-IF.C.8.a A1: F-IF.C.9 A1: N-Q.A A1: N-RN.B.3

Standards by Lesson

Standard	Lesson(s)
A1: A-CED.A.1	Alg1.2.20, Alg1.7.1, Alg1.7.17, Alg1.7.18
A1: A-CED.A.2	Alg1.2.1, Alg1.2.2, Alg1.2.3, Alg1.2.5, Alg1.2.6, Alg1.2.23, Alg1.5.3, Alg1.5.4, Alg1.5.5, Alg1.5.6, Alg1.5.7, Alg1.7.2
A1: A-CED.A.3	Alg1.2.1, Alg1.2.2, Alg1.2.3, Alg1.2.5, Alg1.2.9, Alg1.2.10, Alg1.2.12, Alg1.2.17, Alg1.2.18, Alg1.2.20, Alg1.2.22, Alg1.2.23, Alg1.2.24, Alg1.2.26
A1: A-CED.A.4	Alg1.2.8, Alg1.2.9, Alg1.2.10, Alg1.2.11, Alg1.4.16

Standard	Lesson(s)
A1: A-REI.A	Alg1.2.4, Alg1.2.7, Alg1.2.12, Alg1.7.13, Alg1.7.17
A1: A-REI.A.1	Alg1.2.6, Alg1.2.7, Alg1.4.5, Alg1.7.3, Alg1.7.5
A1: A-REI.B.3	Alg1.2.4, Alg1.2.8, Alg1.2.9, Alg1.2.19, Alg1.2.20
A1: A-REI.B.4	Alg1.7.2, Alg1.7.4, Alg1.7.5
A1: A-REI.B.4.a	Alg1.7.12, Alg1.7.14, Alg1.7.15, Alg1.7.19
A1: A-REI.B.4.b	Alg1.7.3, Alg1.7.5, Alg1.7.9, Alg1.7.10, Alg1.7.11, Alg1.7.12, Alg1.7.13, Alg1.7.14, Alg1.7.15, Alg1.7.16, Alg1.7.17, Alg1.7.18, Alg1.7.20, Alg1.7.21, Alg1.7.24
A1: A-REI.C.5	Alg1.2.16
A1: A-REI.C.6	Alg1.2.12, Alg1.2.13, Alg1.2.14, Alg1.2.15, Alg1.2.16, Alg1.2.17
A1: A-REI.C.7	Alg1.7.24 (<i>Aligned to Algebra II standards</i>)
A1: A-REI.D	Alg1.7.5, Alg1.7.10, Alg1.7.15
A1: A-REI.D.10	Alg1.2.5, Alg1.2.10, Alg1.2.11, Alg1.2.22, Alg1.7.5
A1: A-REI.D.11	Alg1.4.9
A1: A-REI.D.12	Alg1.2.21, Alg1.2.22, Alg1.2.23, Alg1.2.24, Alg1.2.25, Alg1.2.26
A1: A-SSE.A	Alg1.5.9, Alg1.5.17, Alg1.6.8, Alg1.6.11, Alg1.7.10, Alg1.7.12, Alg1.7.16
A1: A-SSE.A.1	Alg1.2.6, Alg1.2.23, Alg1.4.18, Alg1.5.4, Alg1.5.7, Alg1.5.17, Alg1.6.2, Alg1.6.3
A1: A-SSE.A.1.b	Alg1.5.18
A1: A-SSE.A.2	Alg1.6.8, Alg1.6.9, Alg1.7.6, Alg1.7.7, Alg1.7.8, Alg1.7.10, Alg1.7.11, Alg1.7.12, Alg1.7.14, Alg1.7.19, Alg1.7.22

Standard	Lesson(s)
A1: A-SSE.B.3	Alg1.6.2, Alg1.6.8, Alg1.6.9, Alg1.6.10, Alg1.6.13, Alg1.7.22
A1: A-SSE.B.3.a	Alg1.7.9
A1: A-SSE.B.3.b	Alg1.7.22, Alg1.7.23
A1: A-SSE.B.3.c	Alg1.5.18
A1: F-BF.A	Alg1.6.17
A1: F-BF.A.1	Alg1.4.17, Alg1.4.18, Alg1.5.11, Alg1.5.15, Alg1.5.17, Alg1.6.6
A1: F-BF.A.1.a	Alg1.4.4, Alg1.4.14, Alg1.5.2, Alg1.5.3, Alg1.5.4, Alg1.5.15, Alg1.5.16, Alg1.5.17, Alg1.6.1, Alg1.6.2, Alg1.6.3, Alg1.6.4, Alg1.6.5, Alg1.6.6, Alg1.6.7
A1: F-BF.B.3	Alg1.4.14, Alg1.6.12, Alg1.6.13, Alg1.6.15, Alg1.6.17
A1: F-BF.B.4	Alg1.4.15, Alg1.4.16, Alg1.4.17 (<i>Aligned to Algebra II standards</i>)
A1: F-BF.B.4.a	Alg1.4.17 (<i>Aligned to Algebra II standards</i>)
A1: F-IF.A.1	Alg1.4.1, Alg1.4.2, Alg1.4.4
A1: F-IF.A.2	Alg1.4.2, Alg1.4.3, Alg1.4.4, Alg1.4.5, Alg1.4.12, Alg1.4.17, Alg1.5.8, Alg1.5.9, Alg1.5.11, Alg1.5.17, Alg1.5.18, Alg1.5.19, Alg1.6.3, Alg1.6.5, Alg1.6.14, Alg1.7.18
A1: F-IF.B	Alg1.4.10, Alg1.4.18, Alg1.5.8
A1: F-IF.B.4	Alg1.4.1, Alg1.4.2, Alg1.4.3, Alg1.4.4, Alg1.4.5, Alg1.4.6, Alg1.4.8, Alg1.4.9, Alg1.4.11, Alg1.4.17, Alg1.4.18, Alg1.5.1, Alg1.5.2, Alg1.5.5, Alg1.5.6, Alg1.5.11, Alg1.5.12, Alg1.5.13, Alg1.5.19, Alg1.6.14, Alg1.6.17, Alg1.7.10
A1: F-IF.B.5	Alg1.4.10, Alg1.4.11, Alg1.4.12, Alg1.5.8, Alg1.5.9, Alg1.5.11, Alg1.5.19, Alg1.6.6, Alg1.6.7, Alg1.7.17
A1: F-IF.B.6	Alg1.4.7, Alg1.4.8, Alg1.4.9, Alg1.4.18, Alg1.5.10, Alg1.5.15

Standard	Lesson(s)
A1: F-IF.C	Alg1.4.4, Alg1.4.12, Alg1.4.13, Alg1.4.14, Alg1.6.4, Alg1.6.6, Alg1.6.12, Alg1.6.15, Alg1.6.16, Alg1.6.17, Alg1.7.22, Alg1.7.23
A1: F-IF.C.7	Alg1.4.12, Alg1.5.8, Alg1.6.12, Alg1.6.13
A1: F-IF.C.7.a	Alg1.6.6, Alg1.6.7, Alg1.6.11, Alg1.6.13, Alg1.6.14, Alg1.6.15, Alg1.6.16, Alg1.6.17, Alg1.7.20
A1: F-IF.C.7.b	Alg1.4.12, Alg1.4.13, Alg1.4.14
A1: F-IF.C.7.e	Alg1.5.9, Alg1.5.15
A1: F-IF.C.8	Alg1.5.18, Alg1.6.14
A1: F-IF.C.8.a	Alg1.7.24
A1: F-IF.C.8.b	Alg1.5.18
A1: F-IF.C.9	Alg1.6.14, Alg1.7.23
A1: F-LE.A.1	Alg1.5.11, Alg1.5.17, Alg1.5.19, Alg1.5.21
A1: F-LE.A.1.a	Alg1.5.20
A1: F-LE.A.1.b	Alg1.5.20, Alg1.5.21
A1: F-LE.A.1.c	Alg1.5.11, Alg1.5.21
A1: F-LE.A.2	Alg1.5.8, Alg1.5.9, Alg1.5.11, Alg1.5.13, Alg1.5.15, Alg1.5.17, Alg1.5.19, Alg1.5.20, Alg1.5.21, Alg1.6.12
A1: F-LE.A.3	Alg1.5.1, Alg1.5.19, Alg1.6.4
A1: F-LE.B.5	Alg1.5.3, Alg1.5.4, Alg1.5.5, Alg1.5.11, Alg1.5.12, Alg1.5.13, Alg1.5.17
A1: N-Q.A	Alg1.4.8, Alg1.7.2

Standard	Lesson(s)
A1: N-Q.A.1	Alg1.5.7, Alg1.5.8, Alg1.5.11
A1: N-Q.A.2	Alg1.2.1, Alg1.2.26, Alg1.4.8, Alg1.5.17
A1: N-Q.A.3	Alg1.3.6, Alg1.5.11, Alg1.5.21
A1: N-RN.B	Alg1.7.21
A1: N-RN.B.3	Alg1.7.20, Alg1.7.21
A1: S-ID.A	Alg1.1.16, Alg1.3.9
A1: S-ID.A.1	Alg1.1.2, Alg1.1.3, Alg1.1.4, Alg1.1.9, Alg1.1.10, Alg1.1.14, Alg1.1.15, Alg1.1.16
A1: S-ID.A.2	Alg1.1.9, Alg1.1.10, Alg1.1.11, Alg1.1.12, Alg1.1.13, Alg1.1.14, Alg1.1.15, Alg1.1.16
A1: S-ID.A.3	Alg1.1.10, Alg1.1.12, Alg1.1.14, Alg1.1.15, Alg1.1.16
A1: S-ID.B.5	Alg1.3.1, Alg1.3.2, Alg1.3.3, Alg1.3.9
A1: S-ID.B.6	Alg1.3.4, Alg1.3.7, Alg1.3.8, Alg1.3.9, Alg1.3.10
A1: S-ID.B.6.a	Alg1.3.4, Alg1.3.6, Alg1.3.8, Alg1.4.17, Alg1.4.18, Alg1.5.11, Alg1.5.21
A1: S-ID.B.6.b	Alg1.3.6
A1: S-ID.B.6.c	Alg1.3.5, Alg1.3.6, Alg1.4.17, Alg1.4.18
A1: S-ID.C.7	Alg1.3.4, Alg1.3.5, Alg1.3.8, Alg1.3.9, Alg1.3.10
A1: S-ID.C.8	Alg1.3.7, Alg1.3.8, Alg1.3.9, Alg1.3.10
A1: S-ID.C.9	Alg1.3.9, Alg1.3.10