



## Desmos Algebra 1, IM, and CCSS Alignment\*

### Unit Alignment

Desmos Math Curriculum	Estimated Release	IM Equivalent
<b>Unit 1: Representing Relationships</b> <i>17 Days</i>	June 2022	Unit 2 (Lessons 1–5) Unit 5 (Lessons 1–6)
<b>Unit 2: Linear Equations and Inequalities</b> <i>22 Days</i>	July 2022	Unit 2 (Lessons 6–11, 18–23)
<b>Unit 3: Describing Data</b> <i>23 Days</i>	August 2022	Unit 1 Unit 3 (Lessons 4–10)
<b>Unit 4: Describing Functions</b> <i>23 Days</i>	October 2022	Unit 4
<b>Unit 5: Systems of Linear Equations and Inequalities</b> <i>16 Days</i>	November 2022	Unit 2 (Lessons 12–17, 24–26)
<b>Unit 6: Exponential Functions</b> <i>19 Days</i>	January 2023	Unit 5 (Lessons 7–21)
<b>Unit 7: Quadratic Functions</b> <i>24 Days</i>	April 2022	Unit 6
<b>Unit 8: Quadratic Equations</b> <i>24 Days</i>	January 2023	Unit 7

*Number of days include lessons, practice days, readiness checks, quizzes, and end-unit assessments.*



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### Lesson Alignment

#### Unit 1

Desmos Math Curriculum	Lesson Type	IM Equivalent
<b>Lesson 1: Handshakes</b>	Paper	
<b>Lesson 2: Visual Patterns</b>	Digital with an optional paper supplement	Algebra 1 (Unit 2, Lessons 3)
<b>Lesson 3: More Visual Patterns</b>	Digital with an optional paper supplement	Algebra 1 (Unit 2, Lesson 2)
<b>Lesson 4: Dominoes</b>	Digital	Algebra 1 (Unit 2, Lesson 5)
<b>Lesson 5: Growing Globbs</b>	Digital	Algebra 1 (Unit 5, Lesson 1)
<b>Lesson 6: Table Talk</b>	Paper	Algebra 1 (Unit 5, Lesson 2)
<b>Lesson 7: Exploring Equations</b>	Digital	Algebra 1 (Unit 5, Lessons 2 & 3)
<b>Quiz</b>	Digital or Paper	Algebra 1 (Unit 2, Lessons 2–3, 5) Algebra 1 (Unit 5, Lessons 1–3)
<b>Lesson 8: Carlos's Fish</b>	Digital	Algebra 1 (Unit 5, Lesson 3)
<b>Lesson 9: Folding Functions</b>	Paper	Algebra 1 (Unit 5, Lessons 4 & 5)
<b>Lesson 10: Going Viral</b>	Digital	Algebra 1 (Unit 5, Lessons 5 & 6)
<b>Lesson 11: Predicting Diseases</b>	Digital with an optional paper supplement	Algebra 1 (Unit 5, Lessons 1–6)
<b>Practice Day 1</b>	Paper	Algebra 1 (Unit 2, Lessons 2–3,5) Algebra 1 (Unit 5, Lessons 1–6)

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### Unit 2

Desmos Math Curriculum	Lesson Type	IM Equivalent
<b>Lesson 1: Hang On</b>	Digital	
<b>Lesson 2: Working Backwards</b>	Digital	Algebra 1 (Unit 2, Lesson 4)
<b>Lesson 3: Equivalent Equations</b>	Paper	Algebra 1 (Unit 2, Lesson 6)
<b>Lesson 4: Solving Strategies</b>	Paper	Algebra 1 (Unit 2, Lesson 7)
<b>Lesson 5: Same Position</b>	Digital	Algebra 1 (Unit 2, Lesson 7)
<b>Lesson 6: Subway Seats</b>	Digital	Algebra 1 (Unit 2, Lessons 8 & 9)
<b>Lesson 7: Various Variables</b>	Paper	Algebra 1 (Unit 2, Lessons 8 & 9)
<b>Lesson 8: Shelley the Snail</b>	Digital	Algebra 1 (Unit 2, Lessons 10 & 11)
<b>Lesson 9: Five Representations</b>	Digital	Algebra 1 (Unit 2, Lessons 10 & 11)
<b>Practice Day 1</b>	Paper	Algebra 1 (Unit 2, Lessons 6–11)
<b>Quiz</b>	Digital or Paper	Algebra 1 (Unit 2, Lessons 6–11)
<b>Lesson 10: Pizza Delivery</b>	Digital	Algebra 1 (Unit 2, Lesson 18)
<b>Lesson 11: Graphing Inequalities</b>	Digital	Algebra 1 (Unit 2, Lessons 19 & 20)
<b>Lesson 12: Solutions and Sheep</b>	Digital	Algebra 1 (Unit 2, Lessons 19 & 20)
<b>Lesson 13: Bracelet Budgets</b>	Digital	Algebra 1 (Unit 2, Lesson 22)
<b>Lesson 14: All of the Solutions</b>	Digital	Algebra 1 (Unit 2, Lesson 21)
<b>Lesson 15: Charity Concerts</b>	Paper	Algebra 1 (Unit 2, Lesson 22)
<b>Lesson 16: Water Way</b>	Paper	Algebra 1 (Unit 2, Lesson 23)
<b>Practice Day 2</b>	Paper	Algebra 1 (Unit 2, Lessons 18–23)

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### Unit 3

Desbook	Lesson Type	IM Equivalent
<b>Lesson 1:</b> Survey Says	Digital	Algebra 1 (Unit 1, Lesson 1)
<b>Lesson 2:</b> Love It or Hate It	Digital	Algebra 1 (Unit 1, Lessons 2 & 3)
<b>Lesson 3:</b> Better Weather?	Digital	Algebra 1 (Unit 1, Lessons 2 & 3)
<b>Lesson 4:</b> Shapes of Data	Digital	Algebra 1 (Unit 1, Lesson 4)
<b>Lesson 5:</b> Quick Click	Digital	Algebra 1 (Unit 1, Lessons 5, 9 & 10)
<b>Lesson 6:</b> Finding Desmo	Digital	Algebra 1 (Unit 1, Lessons 11 & 12)
<b>Lesson 7:</b> Wavering Weather	Paper with a Digital Supplement	Algebra 1 (Unit 1, Lessons 13)
<b>Lesson 8:</b> Racecar	Digital	Algebra 1 (Unit 1, Lesson 11)
<b>Lesson 9:</b> Far Out	Digital	Algebra 1 (Unit 1, Lesson 14)
<b>Lesson 10:</b> Dynamic Decades	Paper with a Digital Supplement	Algebra 1 (Unit 1, Lessons 15 & 16)
<b>Practice Day 1</b>	Paper with a Digital Supplement	Algebra 1 (Unit 1, Lessons 1-5 & 9-16)
<b>Quiz</b>	Digital or Paper	
<b>Lesson 11:</b> Correlation Coefficient	Digital	Algebra 1 (Unit 3, Lesson 7)
<b>Lesson 12:</b> How Hot Is It?	Digital	Algebra 1 (Unit 3, Lesson 8)
<b>Lesson 13:</b> City Slopes	Digital	Algebra 1 (Unit 3, Lesson 4)

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<b>Lesson 14:</b> Residual Fruit	Digital	Algebra 1 (Unit 3, Lesson 6)
<b>Lesson 15:</b> Penguin Populations	Digital	Algebra 1 (Unit 3, Lesson 5)
<b>Lesson 16:</b> Behind the Headlines	Paper	Algebra 1 (Unit 3, Lesson 9)
<b>Lesson 17:</b> City Data	Paper with a Digital Supplement	Algebra 1 (Unit 3, Lesson 10)
<b>Practice Day 2</b>	Paper with a Digital Supplement	Algebra 1 ((Unit 1, Lessons 1-5 & 9-16, Unit 3, Lessons 4-10)

### Unit 4

Desbook	Lesson Type	IM Equivalent
<b>Lesson 1:</b> Mystery Rule	Digital	
<b>Lesson 2:</b> Pricing Pizzas	Digital	Algebra 1 (Unit 4, Lesson 2)
<b>Lesson 3:</b> Toy Factory	Digital	Algebra 1 (Unit 4, Lessons 4 & 5)
<b>Lesson 4:</b> Fact or Function	Paper with a Digital Supplement	Algebra 1 (Unit 4, Lesson 3)
<b>Quiz</b>	Digital or Paper	
<b>Lesson 5:</b> Function Carnival	Digital	Algebra 1 (Unit 4, Lessons 1 & 8)
<b>Lesson 6:</b> Craft-a-Graph	Digital	Algebra 1 (Unit 4, Lesson 6)
<b>Lesson 7:</b> Plain, Train, and Automobile	Digital	Algebra 1 (Unit 4, Lessons 7)
<b>Lesson 8:</b> Space Race	Digital	Algebra 1 (Unit 4, Lessons 6 & 9)

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<b>Lesson 9:</b> Ins and Outs	Paper with a Digital Supplement	Algebra 1 (Unit 4, Lesson 10)
<b>Lesson 10:</b> Elevator Stories	Digital	Algebra 1 (Unit 4, Lesson 11)
<b>Lesson 11:</b> Marbleslides	Digital	
<b>Lesson 12:</b> Graduation Graphs	Digital	Algebra 1 (Unit 4, Lesson 11)
<b>Practice Day 1</b>	Paper	Algebra 1 (Unit 4, Lessons 1–11)
<b>Quiz 2</b>	Digital or Paper	
<b>Lesson 13:</b> Pumpkin Prices	Digital	Algebra 1 (Unit 4, Lesson 12)
<b>Lesson 14:</b> Doctor Doctor	Paper	Algebra 1 (Unit 4, Lesson 12)
<b>Lesson 15:</b> What's Your Score?	Digital	Algebra 1 (Unit 4, Lesson 13)
<b>Lesson 16:</b> Absolute Value Machines	Digital	Algebra 1 (Unit 4, Lesson 14)
<b>Lesson 17:</b> Our Math Stories	Paper with a Digital Supplement	Algebra 1 (Unit 4, Lesson 18)
<b>Practice Day 2</b>	Paper	Algebra 1 (Unit 4, Lessons 12–14 & 18)

## Unit 7

Desmos Math Curriculum	Lesson Type	IM Equivalent
<b>Lesson 1: Revisiting Visual Patterns, Part 1</b>	Digital	Algebra 1 (Unit 6, Lesson 2)
<b>Lesson 2: Revisiting Visual Patterns, Part 2</b>	Digital	Algebra 1 (Unit 6, Lesson 3)
<b>Lesson 3: Sorting Relationships</b>	Paper	Algebra 1 (Unit 6, Lesson 4)
<b>Lesson 4: On the Fence</b>	Digital	Algebra 1 (Unit 6, Lesson 1)

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<b>Lesson 5: Stomp Rockets</b>	Digital	
<b>Lesson 6: Plenty of Parabolas</b>	Digital	Algebra 1 (Unit 6, Lesson 7)
<b>Lesson 7: Robot Launch</b>	Paper	Algebra 1 (Unit 6, Lesson 6)
<b>Quiz 1</b>	Digital or paper	Algebra 1 (Unit 6, Lessons 1–7)
<b>Lesson 8: What's My Graph?</b>	Paper	Algebra 1 (Unit 6, Lesson 10)
<b>Lesson 9: Two for One</b>	Paper	Algebra 1 (Unit 6, Lessons 9 & 10)
<b>Lesson 10: Interesting Intercepts</b>	Digital	Algebra 1 (Unit 6, Lesson 10)
<b>Lesson 11: Parabola Zapper</b>	Digital	Algebra 1 (Unit 6, Lesson 11)
<b>Lesson 12: Break Through: Parabolas</b>	Digital	Algebra 1 (Unit 6, Lesson 13)
<b>Lesson 13: Sneaker Drop</b>	Paper	Algebra 1 (Unit 6, Lesson 7)
<b>Practice Day 1</b>	Paper	Algebra 1 (Unit 6, Lessons 1–7, 10–11, 13)
<b>Quiz 2</b>	Digital or Paper	Algebra 1 (Unit 6, Lessons 7, 10, 11, & 13)
<b>Lesson 14: Shift and Stretch</b>	Digital	Algebra 1 (Unit 6, Lesson 12)
<b>Lesson 15: Vertex Form</b>	Digital	Algebra 1 (Unit 6, Lesson 15)
<b>Lesson 16: Through the Gates</b>	Digital	Algebra 1 (Unit 6, Lesson 13, 16–17)
<b>Lesson 17: Reasonable Rent</b>	Digital	Algebra 1 (Unit 6, Lessons 7, 14)
<b>Practice Day 2</b>	Paper	Algebra 1 (Unit 6, Lessons 7, 10–17)

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# Desmos Algebra 1, IM, and CCSS Alignment\*

## CCSS Algebra + Functions Standards

		Units							
CCSS		1	2	3	4	5	6	7	8
A.APR.A	1	•							•
A.CED.A	1	•							•
	2	•							
	3	•			•				
	4	•							
A.REI.A	1	•							
A.REI.B	3	•							
	4								•
	4a								•
	4b								•
A.REI.C	5					•			
	6					•			
	7					•			
A.REI.D	10	•	•						•
	11					•			
	12	•							
A.SSE.A	1	•							
	1a							•	
	1b							•	
	2								•
A.SSE.B	3					•			•
	3a								•
	3b								•
	3c					•			

		Units							
CCSS		1	2	3	4	5	6	7	8
F.BF.A	1	•					•	•	
	1a	•					•	•	
F.BF.B	3							•	
F.IF.A	1				•				
	2				•			•	
F.IF.B	4				•		•	•	
	5				•		•	•	
	6				•				
F.IF.C	7	•			•	•	•	•	
	7a	•			•		•	•	
	7b				•				
	7e						•		
	8						•	•	•
	8a								•
	8b						•		
	9				•		•	•	
	F.LE.A	1	•					•	•
1a		•					•		
1b		•					•		
1c							•		
F.LE.B	2	•					•		
	3	•					•	•	
	5	•					•		

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## Desmos Algebra 1, IM, and CCSS Alignment\*

### CCSS Number and Quantity + Statistics Standards

		Units							
CCSS		1	2	3	4	5	6	7	8
N.RN.B	3								•
N.Q.A	1		•		•		•		
	2	•				•	•		
	3		•			•	•		

		Units							
CCSS		1	2	3	4	5	6	7	8
SS.ID.A	1			•					
	2			•					
	3			•					
SS.ID.B	6			•					
	6a			•					
	6b			•					
	6c			•					
SS.ID.C	7			•					
	8			•					
	9			•					

### Standards By Unit

Unit	Standards
1	A.CED.A.2, A.REI.D.10, A.SSE.A.1, F.BF.A.1, F.BF.A.1.a, F.IF.C.7, F.IF.C.7.a, F.LE.A.1, F.LE.A.1.a, F.LE.A.1.b, F.LE.A.2, F.LE.A.3, F.LE.B.5, N.Q.A.2
2	A.CED.A.1, A.CED.A.3, A.CED.A.4, A.REI.A.1, A.REI.B.3, A.REI.D.10, A.REI.D.12, N.Q.A.1, N.Q.A.3
3	SS.ID.A.1, SS.ID.A.2, SS.ID.A.3, SS.ID.B.6, SS.ID.B.6a, SS.ID.B.6b, SS.ID.B.6c, SS.ID.C.7, SS.ID.C.8, SS.ID.C.9
4	F.IF.A.1, F.IF.A.2, F.IF.B.4, F.IF.B.5, F.IF.B.6, F.IF.C.7, F.IF.C.7b, F.IF.C.9, N.Q.A.1
5	A.CED.A.3, A.REI.C.5, A.REI.C.6, A.REI.C.7, A.REI.D.11, A.SSE.B.3, F.IF.C.7, F.IF.C.7.a, N.Q.A.2, N.Q.A.3
6	A.SSE.B.3.c, F.BF.A.1, F.BF.A.1.a, F.IF.B.4, F.IF.B.5, F.IF.C.7, F.IF.C.7.e, F.IF.C.8, F.IF.C.8.b, F.IF.C.9, F.LE.A.1, F.LE.A.1.a, F.LE.A.1.b, F.LE.A.1.c, F.LE.A.2, F.LE.A.3, F.LE.B.5, N.Q.A.1, N.Q.A.2, N.Q.A.3
7	A.SSE.A.1a, A.SSE.A.1.b, F.BF.A.1, F.BF.A.1.a, F.BF.B, F.IF.A.2, F.IF.B.4, F.IF.B.5, F.IF.C.7, F.IF.C.7.a, F.IF.C.8, F.IF.C.9, F.LE.A.1, F.LE.A.3
8	A.CED.A.1, A.REI.B.4, A.REI.B.4.a, A.REI.B.4.b, A.REI.D.10, A.SSE.A.2, A.SSE.B.3, A.SSE.B.3.a, A.SSE.B.3.b, F.IF.C.8, F.IF.C.8.a, N.RN.B.8

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### Notes About CCSS Alignment

Geometry will include **two-way tables** (SS.ID.C.5) to support students in making connections between two-way tables and probability.

Algebra 2 will include **inverse functions** (F.BF.B.4) to support students in making connections between inverse functions and logarithmic functions, and to extend exposure of solving equations into Algebra 2.

Algebra 2 will include **radicals and rational exponents** (A.REI.A.2, N.RN.A.1, N.RN.A.2) to support students in making connections between these expressions and complex numbers.

**Algebra 2 will include arithmetic and geometric sequences (F.BF.A.2, F.IF.A.3, A.SSE.B.4) to extend exposure to representations of functions (including graphs, tables, and expressions).**

Common Core State Standards (CCSS) Appendix A includes **polynomial operations** (A.APR.A.1) in both Algebra 1 and Algebra 2. In Algebra 1, they say to “focus on polynomial expressions that simplify to forms that are linear or quadratic in a positive integer power of  $x$ .” In Desmos Algebra 1, students will have opportunities to add and subtract linear expressions in Unit 2 as they solve linear equations and systems. In Unit 8, they will have opportunities to multiply linear expressions, and to add and subtract quadratic and linear expressions as they create equivalent forms of quadratics. In Algebra 2, students will extend their skills “beyond the quadratic polynomials found in Algebra I.”