

Custom Sequence of  
Cognitive Tutor® Software to Align to the  
Bittering Introductory Algebra Text

Unit Number in Custom Sequence	Unit Name	Cognitive Tutor Curriculum	Source Unit Number	Corresponding Bittering Introductory Algebra Text Chapter
1	Least Common Multiple	BTA	3	R
2	Greatest Common Factor	BTA	4	R
3	Equivalent Fractions	BTA	8	R
4	Fraction Addition and Subtraction	BTA	9	R
5	Mixed Numbers and Improper Fractions	BTA	10	R
6	Fraction Multiplication and Division	BTA	11	R
7	Decimals and Place Value	BTA	12	R
8	Fraction and Decimal Conversions	BTA	13	R
9	Decimal Addition and Subtraction	BTA	14	R
10	Decimal Multiplication and Division	BTA	15	R
11	Fraction, Decimal, and Percent Conversions	BTA	17	R
12	Integer Representation, Addition, and Subtraction	BTA	20	1
13	Integer Multiplication and Division	BTA	21	1
14	Exponents	BTA	23	R
15	Squares and Square Roots	BTA	40	R
16	Absolute Value	BTA	22	1
17	Rational and Irrational Numbers	BTA	48	1
18	Order of Operations	BTA	28	1
19	Linear Patterns	A1	1	2
20	One-Step Equations	BTA	30	2
21	Two-Step Linear Equations	A1	8	2
22	Linear Models and First Quadrant Graphs	A1	3	3
23	Linear Models and Independent Variables	A1	5	2
24	Linear Models and Four Quadrant Graphs	A1	10	3
25	Linear Equations with Similar Terms	A1	11	2
26	Linear Equations and the Distributive Property	A1	13	2
27	Linear Models and the Distributive Property	A1	14	2

BTA = Bridge to Algebra

A1 = Algebra I

A2 = Algebra II

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28	Percents and Proportions	BTA	18	2
29	Percent Change	BTA	19	2
30	Linear Inequalities	A1	12	2
31	Linear Models and Slope-Intercept Graphs	A1	17	3
32	Finding Equations of a Line	A1	18	3
33	Graphs of Linear Inequalities	A1	24	3
34	Scientific Notation	A1	31	4
35	Polynomial Operations	A1	34	4
36	Polynomial Multiplication and Factoring	A1	35	5
37	Quadratic Equation Solving using Factoring	A2	12	5
38	Quadratic Models and Area	A1	26	5
39	Rational Expressions	A2	26	6
40	Rational Equations	A2	27	6
41	Systems of Linear Equations Modeling	A1	22	7
42	Systems of Linear Equations	A1	23	7
43	Simplification and Operations with Radicals	A2	18	8
44	Pythagorean Theorem	A1	39	8
45	Quadratic Equation Solving	A2	15	9
46	Quadratic Models in General Form	A2	16	9

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