

The following is a table of contents and a pacing guide. If you follow this table of contents, you will have covered ***MOST*** of the CCSS for 7th and 8th grade. The two main topics that have been omitted are Data Analysis (7th grade) and Geometry (7th/8th grade). The focus of Pre-Algebra is to prepare the students for Algebra I rather than cover all of the 7th and 8th grade CCSS. The pacing guide accounts for 167 days. We know that there are days built into your schedule throughout the school year for things such as seating charts, classroom rules, distributing books, diagnostic testing, standardized test preparation, assemblies, and field trips. Therefore, you will have to make some decisions on what you will cover before the standardized tests are administered. You will also have to decide if you are going to include Data Analysis and Geometry. If so, you can use the lessons found in the Course II and III books as that is where they are taught.

Unit 1 - Numbers and Operations (29 Days)

1-1	<i>Language of Pre-Algebra</i>	- 8.NS.1, A.SSE.1
1-2	<i>Fractions, Decimals, and Percents</i>	- 7.NS.2.d
1-3	<i>Adding Rationals</i>	- 7.NS.1.a, 7.NS.1.b, 7.NS.1.d, 7.NS.3
1-4	<i>Subtracting Rationals</i>	- 7.NS.1.a-d, 7.NS.3
1-5	<i>Multiplying Rationals</i>	- 7.NS.2.a, 7.NS.2.c, 7.NS.3
1-6	<i>Dividing Rationals</i>	- 7.NS.2.b, 7.NS.2.c, 7.NS.3
1-7	<i>Exponents and Roots</i>	- 8.NS.2, 8.EE.1, 8.EE.2

Unit 2 – Expressions and Equations (33 Days)

2-1	<i>Order of Operations</i>	- Prepares for 8.EE.7.a and 8.EE.7.b
2-2	<i>Combining Terms</i>	- Prepares for 8.EE.7.a and 8.EE.7.b
2-3	<i>Distributive Property</i>	- Prepares for 8.EE.7.a and 8.EE.7.b
2-4	<i>One-Step Equations</i>	- 8.EE.7.a
2-5	<i>Two-Step Equations</i>	- 8.EE.7.a
2-6	<i>Solving Formulas</i>	- 8.EE.7.b
2-7	<i>Multi-Step Equations</i>	- 8.EE.7.a, 8.EE.7.b
2-8	<i>Writing Equations</i>	- 8.EE.7.b

Unit 3 – Factors and Monomials (19 Days)

3-1	<i>Monomials and Factors</i>	- Prepares for F.IF.8.a
3-2	<i>Prime Factorization</i>	- Prepares for F.IF.8.a
3-3	<i>GCF/LCM</i>	- F.IF.8.a
3-4	<i>Adding/Subtracting Monomials</i>	- 8.EE.1
3-5	<i>Multiplying/Dividing Monomials</i>	- 8.EE.1
3-6	<i>Scientific Notation</i>	- 8.EE.3, 8.EE.4

Unit 4 - Proportional Reasoning (23 Days)

- 4-1 Rates and Ratios - 7.RP.1
- 4-2 Proportions - 7.RP.2.a-d, 7.G.1
- 4-3 Percent Proportion - 7.RP.3
- 4-4 Percent Applications - 7.RP.3, 7.EE.2, 7.EE.3
- 4-5 Percent Increase/Decrease - 7.RP.3, 7.EE.2, 7.EE.3

Unit 5 - Inequalities (13 Days)

- 5-1 Inequalities - Prepares for 7.EE.4.b
- 5-2 One-Step Inequalities - Prepares for 7.EE.4.b
- 5-3 Two-Step Inequalities - 7.EE.4.b
- 5-4 Multi-Step Inequalities - 7.EE.4.b
- 5-5 Writing Inequalities - 7.EE.4.b

Unit 6 - Algebra Concepts (39 Days)

- 6-1 Coordinate System - Prepares for 8.F.3
- 6-2 Relations - 8.F.1, 8.F.2
- 6-3 Linear Equations - 8.EE.5, 8.EE.6, 8.F.1, 8.F.2, 8.F.3, 8.F.4
- 6-4 Slope - 8.EE.5, 8.EE.6, 8.F.2, 8.F.4
- 6-5 Slope Intercept Equation - 8.EE.5, 8.EE.6, 8.F.2, 8.F.3, 8.F.4, 8.SP.3
- 6-6 Scatter Plots - 8.SP.1, 8.SP.2, 8.SP.3
- 6-7 Functions - 8.F.1, 8.F.3, 8.F.5

Unit 7 - Systems (11 Days)

- 7-1 Graphing - 8.EE.8.a, 8.EE.8.b, 8.EE.8.c
- 7-2 Substitution - 8.EE.8.b, 8.EE.8.c