

The following is a table of contents and a pacing guide. If you follow this table of contents, you will have covered all of the CCSS for 8<sup>th</sup> grade. The pacing guide accounts for 160 days. We know that there are days built into your schedule throughout the school year for things such as classroom rules, diagnostic testing, assemblies, field trips, midterms, etc. The 160 day pacing guide ensures that all of the topics will be covered before the standardized test is administered. This also allows for time to review before the standardized test is given. There is a folder that contains review materials. We suggest that after the standardized tests are administered and all of the standards are covered, you do a one week review of solving equations and graphing lines at the end of the year to prepare your students for Algebra I. There is a folder that has materials to review these topics.

### Unit 1 - Problem Solving (15 Days)

### Common Core State Standard(s)

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|-----|--------------------------------|--|
| 1-1 | <i>Guess and Check</i>         | - CCSS Mathematical Practice 1, 3                |
| 1-2 | <i>Eliminate Possibilities</i> | - CCSS Mathematical Practice 1, 2, 3             |
| 1-3 | <i>Patterns</i>                | - CCSS Mathematical Practice 5, 7, 8             |
| 1-4 | <i>Word Problems</i>           | - CCSS Mathematical Practice 1, 2, 3, 4, 6, 7, 8 |
| 1-5 | <i>Estimate Solutions</i>      | - CCSS Mathematical Practice 1, 2, 3, 4, 7       |

### Unit 2 - Numbers and Operations (25 Days)

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|-----|----------------------------|--------------------------|
| 2-1 | <i>Number Systems</i>      | - 8.NS.1, 8.SP.4         |
| 2-2 | <i>Rational Operations</i> | - Prepares for 8.EE.7.b  |
| 2-3 | <i>Exponents and Roots</i> | - 8.NS.2, 8.EE.1, 8.EE.2 |
| 2-4 | <i>Monomial Operations</i> | - 8.EE.1                 |
| 2-5 | <i>Scientific Notation</i> | - 8.EE.3, 8.EE.4         |

### Unit 3 - Pre-Algebra Concepts (36 Days)

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

#### **Unit 4 - Algebra Concepts (40 Days)**

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

#### **Unit 5 - Systems (12 Days)**

5-1	Graphing	- 8.EE.8.a, 8.EE.8.b, 8.EE.8.c
5-2	Substitution	- 8.EE.8.b, 8.EE.8.c

#### **Unit 6 - Geometry (32 Days)**

6-1	Angles	- 8.G.5
6-2	Polygons	- 8.G.5
6-3	Triangles	- 8.G.5
6-4	Congruent/Similar Figures	- 8.G.5 and Prepares for 8.G.2 and 8.G.4
6-5	Pythagorean Theorem	- 8.EE.2, 8.G.6, 8.G.7, 8.G.8
6-6	Volume	- 8.G.9
6-7	Transformations	- 8.G.1.a, 8.G.1.b, 8.G.1.c, 8.G.2, 8.G.3, 8.G.4