

PAP 7th Grade Curriculum Bundle #1

Title	Suggested Dates
Fractions and Decimals: Compare, Order, Add and Subtract	August 25 – September 11 (13 Days)

Big Idea/Enduring Understanding	Guiding Questions
Different forms of rational numbers are appropriate for use in different situations. (Examples: determining parts of a whole in a recipe, measuring long distances or microscopic objects, recording data, representing the amount of increase or decrease in given situations such as yards gained or lost on a football field, checking account balances, and elevations.)	<ol style="list-style-type: none"> 1. In what ways can rational numbers be represented? 2. In what situations would you want to use percents? decimals? fractions? 3. What form of rational numbers would be best to compare and order numbers? 4. How do you choose the best operation(s) to use in given situations with rational numbers?

The resources included here provide teaching examples and/or meaningful learning experiences to address the District Curriculum. In order to address the TEKS to the proper depth and complexity, teachers are encouraged to use resources to the degree that they are congruent with the TEKS and research-based best practices. Teaching using only the suggested resources does not guarantee student mastery of all standards. Teachers must use professional judgment to select among these and/or other resources to teach the district curriculum.

Knowledge & Skills with Student Expectations	District Specificity/Examples	Suggested Resources (See note above)
Three days allotted for beginning of year activities. Include AVID activities “Name Game” and “Team Huddle”		
<p>8.1 Number, operation, and quantitative reasoning. The student understands that different forms of numbers are appropriate for different situations.</p> <p>8.1A compare and order rational numbers in various forms including integers, percents, and positive and negative fractions and decimals</p> <p><i>Note: Only positive fractions, decimals, and percents here. Repeated in bundle 2 for positive and negative rationals.</i></p>	<ul style="list-style-type: none"> • Positive fractions, decimals, and benchmark percents only in this bundle • Arranging on a number line • Identify equivalent forms • Finding rational numbers between different combinations of rational numbers. 	<p>PH Textbook (8th) 2.2, 2.3 (positives only) Skills Handbook pg. 629</p> <p>AIRR 8th grade Activity #1-5, 13</p>

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<p>8.1 Number, operation, and quantitative reasoning. The student understands that different forms of numbers are appropriate for different situations.</p> <p>8.1E compare and order real numbers with a calculator</p> <p>Note: This is a new TEKS for 8th grade this year</p> <p>Note: Only positive fractions, decimals, and percents here. Repeated in bundle 2 for positive and negative rationals, and in bundle 3 for irrationals.</p>	<ul style="list-style-type: none"> • Use calculator to convert different forms of numbers into the same form to compare • Use calculators to convert decimals into fractions, and fractions into decimals 		<p>AIRR 8th grade Activity # 19</p>
<p>8.1 Number, operation, and quantitative reasoning. The student understands that different forms of numbers are appropriate for different situations.</p> <p>8.1B select and use appropriate forms of rational numbers to solve real-life problems including those involving proportional relationships</p> <p>Note: Teach operations with rational numbers in context. Proportions are in bundle 7 and percents are in bundle 6-7. Percent applications in this bundle are basic questions that might require a conversion.</p>	<ul style="list-style-type: none"> • Select and use a variety of forms of rational numbers within a problem to solve real-world applications in the form of fractions, percents, and decimals 		<p>Kamico- Developmental Series Math 8 Book 1. “Three Point Play” pg.28-41</p> <p>NCTM- Navigating Through Numbers and Operations: Activity- Science Fair Teacher notes- pg 20-23, student pg 115-116</p>
<p>8.2 Number, operation, and quantitative reasoning. The student selects and uses appropriate operations to solve problems and justify solutions.</p> <p>8.2A select appropriate operations to solve problems involving rational numbers and justify the selections</p>	<ul style="list-style-type: none"> • Addition and subtraction of positive fractions and decimals only in this bundle • explain which operation to use and justify its use 		<p>Kamico- TAKS Connection: Developmental Series Math 8 Book 1. Pg 62-72</p> <p>Understanding Math Understanding Integers: Topic 9</p>
<p>8.2 Number, operation, and quantitative reasoning. The student selects and uses appropriate operations to solve problems and justify solutions.</p> <p>8.2B use appropriate operations to solve problems involving rational numbers in problem situations</p>	<ul style="list-style-type: none"> • + and - positive fractions and decimals • use real-life problems • integrate measurement problems that require conversions of units of measure 		<p>PH Textbook (8th) Skills Handbook pg. 634, 639 Problem Solving Handbook pg. T72-T79</p>

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<p>7.13 Underlying processes and mathematical tools. The student applies Grade 7 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school.</p> <p>8.14 Underlying processes and mathematical tools. The student applies Grade 8 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school.</p> <p>7.13A, 8.14A Identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics</p> <p>Note: Ongoing</p>	<ul style="list-style-type: none"> • identify necessary, needed and relevant information to solve problems 		<p>Kamico 7th Grade Inquisitive Interviews Activity</p> <p>AIRR 7th grade Activity #343-348</p> <p>AIRR 8th grade Activity #313-315</p>
<p>7.13 Underlying processes and mathematical tools. The student applies Grade 7 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school.</p> <p>8.14 Underlying processes and mathematical tools. The student applies Grade 8 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school.</p> <p>7.13B, 8.14B use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness</p> <p>Note: Ongoing throughout bundles</p>	<ul style="list-style-type: none"> • Relate mathematical skills to given situations 		<p>AIRR 7th grade Activity #349-353</p> <p>AIRR 8th grade Activity #316-318</p>

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<p>7.13 Underlying processes and mathematical tools. The student applies Grade 7 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school.</p> <p>8.14 Underlying processes and mathematical tools. The student applies Grade 8 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school.</p> <p>7.13D, 8.14D select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense to solve problems</p> <p>Note: Ongoing throughout bundles</p>	<ul style="list-style-type: none"> • Student generated processes to solve problems and apply their methods to given problems. 		