

**Chapter 1: Rational Numbers and Coordinate Plane****Time Frame: 14 days****Lesson 1 – 7**

<b>Revised TEKS Check- Before the Chapter</b>	
<b>Reteach/review GAP Alerts from last school year.</b>	<b>TEKS</b>
<b>Are You Ready? Review/Check pg.102</b> <ul style="list-style-type: none"> <li>Order &amp; Compare Decimals</li> <li>Define a Fraction &amp; a Decimal</li> <li>EXTRA Quick Review: Chapter 1 (located in folder)</li> </ul>	<b>5.2B</b> <b>4.3D</b>

**Lesson 1: Integers and Graphing**

<b>Objectives</b>	
<b>Skills: The student will be able to...</b>	<b>TEKS</b>
<ul style="list-style-type: none"> <li>Identify a number, its opposite, and its absolute value.</li> <li>Locate, compare, and order integers &amp; rational numbers using a number line.</li> </ul>	<b>Readiness: NONE</b>  <b>Supporting: 6.2B, 6.2C</b>  <b>Process Skills: 6.1A, 6.1B, 6.1C, 6.1D, 6.1F, 6.1G</b>  <b>ELPS: 4C, 1A, 4D</b>

<b>Performance Indicators</b>	
<b>By the end of the lesson the student will be able to...</b>	
<ul style="list-style-type: none"> <li>locate integers on a number line.</li> </ul>	

<b>Lesson Information</b>	
<b>Activities</b>	<b>Vocabulary</b>
<ul style="list-style-type: none"> <li>Textbook <u>Texas Math, Course 1</u> pg. 25-34</li> <li><u>Lone STAAR Rigorous Problem Solving</u> Set: 1, 21, 41, 61, 81, 101 Extra Practice/ Games / Videos</li> <li>Integers in Real-life journaling activity</li> <li>Integer Golf Game/ power point</li> <li><u>KAMICO Book 1</u> pg. 28 "Integer Exposition" Pete's</li> </ul> <p><b>Extra Videos &amp; Presentations</b></p> <ul style="list-style-type: none"> <li>PowerPoint &amp; worksheets in folder</li> <li><a href="http://www.youtube.com/watch?v=07WDqvvGO2w">http://www.youtube.com/watch?v=07WDqvvGO2w</a></li> <li><a href="http://www.youtube.com/watch?v=NX3mNjSfERo">http://www.youtube.com/watch?v=NX3mNjSfERo</a></li> <li><a href="http://www.learnalberta.ca/content/mesg/html/math6web/index.html?page=lessons&amp;lesson=m6lessonshell06.swf">http://www.learnalberta.ca/content/mesg/html/math6web/index.html?page=lessons&amp;lesson=m6lessonshell06.swf</a></li> </ul>	<ul style="list-style-type: none"> <li>Integer</li> <li>Negative Integers</li> <li>Positive Integers</li> </ul> <p><b>GAP Vocabulary</b></p> <ul style="list-style-type: none"> <li>whole number</li> <li>Celsius</li> <li>Fahrenheit</li> <li>degrees</li> <li>temperature</li> </ul>

<ul style="list-style-type: none"> <li>• <a href="http://rhymenlearn.com/math-rap/integers/">http://rhymenlearn.com/math-rap/integers/</a></li> <li>• <a href="https://www.youtube.com/watch?v=Q0-mguyO5Vw">https://www.youtube.com/watch?v=Q0-mguyO5Vw</a></li> </ul> <p><b>On-line Games &amp; Practice</b></p> <ul style="list-style-type: none"> <li>• <a href="http://www.ixl.com/math/grade-6/understanding-integers">http://www.ixl.com/math/grade-6/understanding-integers</a></li> <li>• <a href="http://www.adaptedmind.com/gradelistsimple.php?utm_expid=33853517-46.v4CF2YO0Th28LJlapUvWHQ.1&amp;utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html">http://www.adaptedmind.com/gradelistsimple.php?utm_expid=33853517-46.v4CF2YO0Th28LJlapUvWHQ.1&amp;utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html</a></li> <li>• <a href="http://www.mathplayground.com/games2.html">http://www.mathplayground.com/games2.html</a></li> <li>• <a href="http://www.mathplayground.com/games.html">http://www.mathplayground.com/games.html</a></li> </ul>	
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Additional Information	
Materials/Resources	Textbook Correlations:
<ul style="list-style-type: none"> <li>• Textbook- <u>Texas Math, Course 1 Resources</u></li> <li>• <u>Lone STAAR Rigorous Problem Solving</u></li> <li>• Dinah Zyke's <u>Big Book of Math Foldables</u></li> <li>• <u>KAMICO</u></li> <li>• Worksheets Provided</li> <li>• PowerPoints Provided</li> <li>• Web links that are provided for some lessons</li> <li>• <a href="http://www.ixl.com/math/grade-6">http://www.ixl.com/math/grade-6</a></li> <li>• Any resource from the approved list</li> </ul>	<ul style="list-style-type: none"> <li>• <u>MATH course 1 Volume 1</u></li> <li>• <u>Lone STAAR Rigorous Problem Solving</u></li> </ul>
	Notes from Council
	<ul style="list-style-type: none"> <li>• Integers are a new concept in 6th grade.</li> </ul>

Misconceptions/Underdeveloped Concepts
<p>Lesson 1</p> <ul style="list-style-type: none"> <li>• In Exercise 16, students may think that -2 and 3 are only 1 unit apart, since <math>3 - 2 = 1</math>. Encourage them to locate the integers on the number line to verify that they are actually 5 units apart. The number -2 is two units to the left of zero and the number 3 is three units to the right of zero, so the distance between them is 5 units.</li> <li>• Some students may think that -5 is greater than 1, because of the absolute value.</li> </ul>

## Lesson 2: Absolute Value

Objectives	
Skills: The student will be able to...	TEKS
<ul style="list-style-type: none"> <li>• <b>Identify a number, its opposite, and its absolute value.</b></li> </ul>	<p><b>Readiness: NONE</b></p> <p><b>Supporting: 6.2B</b></p> <p><b>Process Skills: 6.1A, 6.1B, 6.1C, 6.1D, 6.1F, 6.1G</b></p> <p><b>ELPS: 4C, 1A, 4D</b></p>

Performance Indicators
<b>By the end of the lesson the student will be able to...</b>
<ul style="list-style-type: none"> <li>Identify a number, its opposite, and its absolute.</li> </ul>

Lesson Information	
<b>Activities</b>	<b>Vocabulary</b>
<ul style="list-style-type: none"> <li>Textbook pg. 35-44</li> <li><u>Lone STAAR Rigorous Problem Solving</u> Set: NONE</li> </ul> <p><b>Extra Videos &amp; Presentations</b></p> <ul style="list-style-type: none"> <li>Powerpoint &amp; worksheets in folder</li> <li><a href="http://www.youtube.com/watch?v=BPPeuvAVpj0&amp;list=PLP9576TYUMok887ftA57RH8lqFh1aTI3x">http://www.youtube.com/watch?v=BPPeuvAVpj0&amp;list=PLP9576TYUMok887ftA57RH8lqFh1aTI3x</a></li> <li><a href="http://www.youtube.com/watch?v=ApkvLqzj3eU">http://www.youtube.com/watch?v=ApkvLqzj3eU</a></li> <li><a href="http://www.youtube.com/watch?v=nCD_CvTYPqk">http://www.youtube.com/watch?v=nCD_CvTYPqk</a></li> <li><a href="http://education-portal.com/academy/lesson/what-is-an-absolute-value.html#lesson">http://education-portal.com/academy/lesson/what-is-an-absolute-value.html#lesson</a></li> </ul> <p><b>On-line Games &amp; Practice</b></p> <ul style="list-style-type: none"> <li><a href="http://www.adaptedmind.com/gradelistsimple.php?utm_expid=33853517-46.v4CF2Y00Th28LJlapUvWHQ.1&amp;utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html">http://www.adaptedmind.com/gradelistsimple.php?utm_expid=33853517-46.v4CF2Y00Th28LJlapUvWHQ.1&amp;utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html</a></li> <li><a href="http://www.mathplayground.com/games2.html">http://www.mathplayground.com/games2.html</a></li> <li><a href="http://www.mathplayground.com/games.html">http://www.mathplayground.com/games.html</a></li> </ul>	<ul style="list-style-type: none"> <li>Absolute Value</li> <li>Opposites</li> </ul>

Additional Information	
<b>Materials/Resources</b>	<b>Textbook Correlations:</b>
<ul style="list-style-type: none"> <li>Textbook- Texas Math, Course 1 Resources</li> <li><u>Lone STAAR Rigorous Problem Solving</u></li> <li>Dinah Zyke's <u>Big Book of Math Foldables</u></li> <li><u>KAMICO</u></li> <li>Worksheets Provided</li> <li>PowerPoints Provided</li> <li>Web links that are provided for some lessons</li> <li><a href="http://www.ixl.com/math/grade-6">http://www.ixl.com/math/grade-6</a></li> <li>Any resource from the approved list</li> </ul>	<ul style="list-style-type: none"> <li><u>MATH course 1 Volume 1</u></li> <li><u>Lone STAAR Rigorous Problem Solving</u></li> </ul>
	<b>Notes from Council</b>

Misconceptions/Underdeveloped Concepts
Lesson 2
<ul style="list-style-type: none"> <li>In Exercise 17, students may incorrectly remove the absolute value bars without thinking of what absolute value means. Remind them that absolute value cannot be negative, because it represents the distance a number is from 0, and distance can never be negative.</li> </ul>

## Lesson 3: Compare and Order Integers

Objectives	
Skills: The student will be able to...	TEKS
<ul style="list-style-type: none"> <li>Locate, compare, and order integers and rational numbers using a number line</li> </ul>	<p><b>Readiness:</b> NONE</p> <p><b>Supporting:</b> 6.2C</p> <p><b>Process Skills:</b> 6.1A, 6.1B, 6.1C, 6.1D, 6.1F, 6.1G</p> <p><b>ELPS:</b> 4C, 1A, 4D</p>

Performance Indicators
By the end of the lesson the student will be able to...
<ul style="list-style-type: none"> <li>Compare &amp; order integers.</li> </ul>

Lesson Information	
Activities	Vocabulary
<ul style="list-style-type: none"> <li>Textbook- <u>Texas Math, Course 1</u> pg. 45-56</li> <li><u>Lone STAAR Rigorous Problem Solving</u> Set: NONE</li> </ul> <p><b>Extra Videos &amp; Presentations</b></p> <ul style="list-style-type: none"> <li>Powerpoint &amp; worksheets in folder</li> <li><a href="http://www.ixl.com/math/grade-6/understanding-integers">http://www.ixl.com/math/grade-6/understanding-integers</a></li> <li><a href="http://www.learnalberta.ca/content/mesg/html/math6web/index.html?page=lessons&amp;lesson=m6lessonsshell06.swf">http://www.learnalberta.ca/content/mesg/html/math6web/index.html?page=lessons&amp;lesson=m6lessonsshell06.swf</a></li> <li><a href="http://rhymenlearn.com/math-rap/integers/">http://rhymenlearn.com/math-rap/integers/</a></li> </ul> <p><b>On-line Games &amp; Practice</b></p> <ul style="list-style-type: none"> <li><a href="http://www.adaptedmind.com/gradelistsimple.php?utm_expId=33853517-46.v4CF2Y00Th28LJlapUvWHQ.1&amp;utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html">http://www.adaptedmind.com/gradelistsimple.php?utm_expId=33853517-46.v4CF2Y00Th28LJlapUvWHQ.1&amp;utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html</a></li> <li><a href="http://www.mathplayground.com/games2.html">http://www.mathplayground.com/games2.html</a></li> <li><a href="http://www.mathplayground.com/games.html">http://www.mathplayground.com/games.html</a></li> <li><a href="http://www.sheppardsoftware.com/mathgames/integers/mathman_integer_numberline.htm">http://www.sheppardsoftware.com/mathgames/integers/mathman_integer_numberline.htm</a></li> </ul>	<p>NONE</p>

Additional Information	
Materials/Resources	Textbook Correlations:
<ul style="list-style-type: none"> <li>Textbook- <u>Texas Math, Course 1</u> Resources</li> <li><u>Lone STAAR Rigorous Problem Solving</u></li> <li>Dinah Zylke's <u>Big Book of Math Foldables</u></li> <li><u>KAMICO</u></li> <li>Worksheets Provided</li> <li>PowerPoints Provided</li> <li>Web links that are provided for some lessons</li> <li><a href="http://www.ixl.com/math/grade-6">http://www.ixl.com/math/grade-6</a></li> </ul>	<ul style="list-style-type: none"> <li><u>MATH course 1 Volume 1</u></li> <li><u>Lone STAAR Rigorous Problem Solving</u></li> </ul>
	Notes from Council
	<ul style="list-style-type: none"> <li>New to sixth this year. However this is a fairly simple concept.</li> </ul>

<ul style="list-style-type: none"> <li>Any resource from the approved list</li> </ul>	
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### Misconceptions/Underdeveloped Concepts

<p>Lesson 3</p> <ul style="list-style-type: none"> <li>In Exercise 13, students may incorrectly order the fractions by ignoring their signs. Remind them that all negative numbers are less than zero. Have them sort the numbers by their signs first, prior to ordering the fractions. The negative fractions should all be less than the positive fractions.</li> </ul>
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## Lesson 4: Decimals and Fractions

### Objectives

Skills: The student will be able to...	TEKS
<ul style="list-style-type: none"> <li><b>Generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money.</b></li> <li><b>Extend representations for division to include fraction notation such as <math>a/b</math> represents the same number as <math>a \div b</math> where <math>b \neq 0</math>.</b></li> </ul>	<p><b>Readiness:</b> 6.4G</p> <p><b>Supporting:</b> 6.2E</p> <p><b>Process Skills:</b> 6.1A, 6.1B, 6.1C, 6.1D, 6.1F, 6.1G</p> <p><b>ELPS:</b> 4C, 1A, 4D</p>

### Performance Indicators

By the end of the lesson the student will be able to...
<ul style="list-style-type: none"> <li>Generate equivalent forms of decimals &amp; fractions.</li> </ul>

### Lesson Information

Activities	Vocabulary
<ul style="list-style-type: none"> <li>Textbook pg. 57-64</li> <li>Lone STAAR Rigorous Problem Solving Set: 2, 22, 42, 62, 82, 102</li> </ul> <p><b>Extra Videos &amp; Presentations</b></p> <ul style="list-style-type: none"> <li>PowerPoint &amp; worksheets in folder</li> <li><a href="http://www.youtube.com/watch?v=9Bx-8aLZVbg">http://www.youtube.com/watch?v=9Bx-8aLZVbg</a></li> </ul> <p><b>On-line Games &amp; Practice</b></p> <ul style="list-style-type: none"> <li><a href="http://www.ixl.com/math/grade-6/convert-between-decimals-and-fractions-or-mixed-numbers">http://www.ixl.com/math/grade-6/convert-between-decimals-and-fractions-or-mixed-numbers</a></li> <li><a href="http://www.mathplayground.com/howto_perfracdec.html">http://www.mathplayground.com/howto_perfracdec.html</a></li> <li><a href="http://www.mathplayground.com/Decention/Decention.html">http://www.mathplayground.com/Decention/Decention.html</a></li> <li><a href="http://www.math-play.com/Changing-Fractions-and-Decimals-to-Percents/changing-fractions-and-decimals-to-percents-millionaire.html">http://www.math-play.com/Changing-Fractions-and-Decimals-to-Percents/changing-fractions-and-decimals-to-percents-millionaire.html</a></li> <li><a href="http://www.math-play.com/Fractions-Decimals-Percents-Jeopardy/fractions-decimals-percents-jeopardy.html">http://www.math-play.com/Fractions-Decimals-Percents-Jeopardy/fractions-decimals-percents-jeopardy.html</a></li> <li><a href="http://www.math-aids.com/Percent/Convert_Between_PDF.html">http://www.math-aids.com/Percent/Convert_Between_PDF.html</a></li> <li><a href="http://www.sheppardsoftware.com/mathgames/fractions/mathman_fractions_numberline.htm">http://www.sheppardsoftware.com/mathgames/fractions/mathman_fractions_numberline.htm</a></li> <li><a href="http://www.youtube.com/watch?v=kbORdR-25AE">http://www.youtube.com/watch?v=kbORdR-25AE</a></li> </ul>	<ul style="list-style-type: none"> <li>Rational Number</li> </ul>

Additional Information	
<b>Materials/Resources</b> <ul style="list-style-type: none"> <li>• Textbook- <a href="#">Texas Math, Course 1 Resources</a></li> <li>• <a href="#">Lone STAAR Rigorous Problem Solving</a></li> <li>• Dinah Zyke's <a href="#">Big Book of Math Foldables</a></li> <li>• <a href="#">KAMICO</a></li> <li>• Worksheets Provided</li> <li>• PowerPoints Provided</li> <li>• Web links that are provided for some lessons</li> <li>• <a href="http://www.ixl.com/math/grade-6">http://www.ixl.com/math/grade-6</a></li> <li>• Any resource from the approved list</li> </ul>	<b>Textbook Correlations:</b> <ul style="list-style-type: none"> <li>• <a href="#">MATH course 1 Volume 1</a></li> <li>• <a href="#">Lone STAAR Rigorous Problem Solving</a></li> </ul> <b>Notes from Council</b> <ul style="list-style-type: none"> <li>• Might need to review simplest form.</li> <li>• Most of the games that we found have to do with converting decimals, fractions, and percents. The book does not address percentage until later on in the book, so we moved lesson 1 and 2 from chapter 5 after this lesson since students will expected to know equivalence.  Example- 50 %, .5, <math>\frac{1}{2}</math></li> </ul>

Misconceptions/Underdeveloped Concepts
<b>Lesson 4</b> <ul style="list-style-type: none"> <li>• In Exercise 14, students may not understand place value. Remind them that any digits to the left of the decimal point indicate a number that is greater than one.</li> <li>• Some students may think that fractions with larger numbers in the denominator have a greater value than fractions with a smaller denominator.</li> </ul>

**\*\*Chapter 5 Lesson 1: Percents and Fractions\*\***

Objectives	
<b>Skills: The student will be able to...</b> <ul style="list-style-type: none"> <li>• <b>Generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money.</b></li> <li>• <b>Represent ratios and percents with concrete models, fractions, and decimals.</b></li> <li>• <b>Use equivalent fractions, decimals, and percents to show equal parts of the same whole.</b></li> </ul>	<b>TEKS</b>  <b>Readiness: 6.4G</b>  <b>Supporting: 6.4E, 6.5C</b>  <b>Process Skills: 6.1A, 6.1B, 6.1D</b>  <b>ELPS: 4C, 1A, 1D, 4D, 4.F, 4G</b>

Performance Indicators
<b>By the end of the lesson the student will be able to...</b> <ul style="list-style-type: none"> <li>• Generate equivalent forms of fractions &amp; percents.</li> </ul>

Lesson Information	
Activities	Vocabulary
<ul style="list-style-type: none"> <li>Textbook pg. 353-364</li> <li><u>Lone STAAR Rigorous Problem Solving</u> Set: 9,29,49,69,89,109</li> </ul> <p><b>Extra Practice/ Games / Videos</b></p> <ul style="list-style-type: none"> <li>PowerPoint &amp; worksheets in folder</li> <li><u>KAMICO Book 1</u>, “The Wizard of Math” pg. 216-220</li> <li><u>KAMICO Book 2</u>, “Confetti Concentration” Pg. 225-234</li> <li>5<sup>th</sup> Grade <u>KAMICO Book 2</u>, “Ironman Math” pg. 275-296</li> <li><a href="http://www.math-aids.com/Percent/Convert_Between_PDF.html">http://www.math-aids.com/Percent/Convert_Between_PDF.html</a></li> </ul> <p><b>Extra Videos &amp; Presentations</b></p> <ul style="list-style-type: none"> <li><a href="http://www.ixl.com/math/grade-6/convert-between-decimals-and-fractions-or-mixed-numbers">http://www.ixl.com/math/grade-6/convert-between-decimals-and-fractions-or-mixed-numbers</a></li> <li><a href="http://www.mathplayground.com/howto_perfracdec.html">http://www.mathplayground.com/howto_perfracdec.html</a></li> <li><a href="http://www.mathplayground.com/Decention/Decention.html">http://www.mathplayground.com/Decention/Decention.html</a></li> <li><a href="http://www.math-play.com/Changing-Fractions-and-Decimals-to-Percents/changing-fractions-and-decimals-to-percents-millionaire.html">http://www.math-play.com/Changing-Fractions-and-Decimals-to-Percents/changing-fractions-and-decimals-to-percents-millionaire.html</a></li> <li><a href="http://www.math-play.com/Fractions-Decimals-Percents-Jeopardy/fractions-decimals-percents-jeopardy.html">http://www.math-play.com/Fractions-Decimals-Percents-Jeopardy/fractions-decimals-percents-jeopardy.html</a></li> <li><a href="http://www.youtube.com/watch?v=V96_PjlrVQc&amp;feature=share">http://www.youtube.com/watch?v=V96_PjlrVQc&amp;feature=share</a></li> </ul> <p><b>On-line Games &amp; Practice</b></p> <ul style="list-style-type: none"> <li><a href="http://www.adaptedmind.com/gradelistsimple.php?utm_expid=33853517-46.v4CF2YO0Th28LJlapUvWHQ.1&amp;utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html">http://www.adaptedmind.com/gradelistsimple.php?utm_expid=33853517-46.v4CF2YO0Th28LJlapUvWHQ.1&amp;utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html</a></li> <li><a href="http://www.mathplayground.com/games2.html">http://www.mathplayground.com/games2.html</a></li> <li><a href="http://www.mathplayground.com/games.html">http://www.mathplayground.com/games.html</a></li> </ul>	<ul style="list-style-type: none"> <li>Percent</li> <li>Benchmark Percents</li> <li>Percent Proportion</li> <li>Proportion</li> </ul>

Additional Information	
Materials/Resources	Textbook Correlations:
<ul style="list-style-type: none"> <li><u>Textbook- Math Course 1 Resources</u></li> <li><u>Lone STAAR Rigorous Problem Solving</u></li> <li><u>Dinah Zyke’s Big Book of Foldables</u></li> <li><u>KAMICO grades 5 and 6</u></li> <li>Worksheets Provided</li> <li>PowerPoints Provided</li> <li>Web links that are provided for some lessons</li> <li><a href="http://www.ixl.com/math/grade-6">http://www.ixl.com/math/grade-6</a></li> <li><a href="http://www.math-aids.com/">http://www.math-aids.com/</a></li> <li>Any resource from the approved list</li> </ul>	<ul style="list-style-type: none"> <li><u>MATH course 1 Volume 1</u></li> <li><u>Lone STAAR Rigorous Problem Solving</u></li> </ul>

Misconceptions/Underdeveloped Concepts
<p>Lesson 1</p> <ul style="list-style-type: none"> <li>In Exercise 11, students may find the fraction and percent of students that use the Internet at home, since that is the information given. Remind students that the remaining percent or fraction will be the difference from 100% or the</li> </ul>

difference between fractions with a denominator of 100.

## \*\*Chapter 5 Lesson 2: Percents and Decimals\*\*

Objectives	
Skills: The student will be able to...	TEKS
<ul style="list-style-type: none"> <li>• <b>Generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money.</b></li> <li>• <b>Represent ratios and percents with concrete models, fractions, and decimals.</b></li> <li>• <b>Use equivalent fractions, decimals, and percents to show equal parts of the same whole.</b></li> </ul>	<p><b>Readiness:</b> 6.4G</p> <p><b>Supporting:</b> 6.4E, 6.5C</p> <p><b>Process Skills:</b> 6.1A, 6.1B, 6.1D</p> <p><b>ELPS:</b> 4C, 1A, 1D, 4D, 4F, 4G</p>

Performance Indicators
By the end of the lesson the student will be able to...
<ul style="list-style-type: none"> <li>• Generate equivalent forms of percents &amp; decimals.</li> </ul>

Lesson Information	
Activities	Vocabulary
<ul style="list-style-type: none"> <li>• Textbook pg. 365-372</li> <li>• <u>Lone STAAR Rigorous Problem Solving</u> Set: 9,29,49,69,89,109</li> </ul> <p><b>Extra Practice/ Games / Videos</b></p> <ul style="list-style-type: none"> <li>• PowerPoint &amp; worksheets in folder</li> <li>• <u>KAMICO Book 1, "The Wizard of Math"</u> pg. 216-220</li> <li>• <u>KAMICO Book 2, "Confetti Concentration"</u> Pg. 225-234</li> <li>• 5<sup>th</sup> Grade <u>KAMICO Book 2, "Ironman Math"</u> pg. 275-296</li> <li>• <a href="http://www.math-aids.com/Percent/Convert_Between_PDF.html">http://www.math-aids.com/Percent/Convert_Between_PDF.html</a></li> </ul> <p><b>On-line Games &amp; Practice</b></p> <ul style="list-style-type: none"> <li>• <a href="http://www.ixl.com/math/grade-6/convert-between-decimals-and-fractions-or-mixed-numbers">http://www.ixl.com/math/grade-6/convert-between-decimals-and-fractions-or-mixed-numbers</a></li> <li>• <a href="http://www.mathplayground.com/howto_perfracdec.html">http://www.mathplayground.com/howto_perfracdec.html</a></li> <li>• <a href="http://www.mathplayground.com/Decention/Decention.html">http://www.mathplayground.com/Decention/Decention.html</a></li> <li>• <a href="http://www.math-play.com/Changing-Fractions-and-Decimals-to-Percents/changing-fractions-and-decimals-to-percents-millionaire.html">http://www.math-play.com/Changing-Fractions-and-Decimals-to-Percents/changing-fractions-and-decimals-to-percents-millionaire.html</a></li> <li>• <a href="http://www.math-play.com/Fractions-Decimals-Percents-Jeopardy/fractions-decimals-percents-jeopardy.html">http://www.math-play.com/Fractions-Decimals-Percents-Jeopardy/fractions-decimals-percents-jeopardy.html</a></li> </ul>	

Additional Information	
Materials/Resources	Textbook Correlations:
<ul style="list-style-type: none"> <li>• <u>Textbook- Math Course 1 Resources</u></li> <li>• <u>Lone STAAR Rigorous Problem Solving</u></li> <li>• <u>Dinah Zyke's Big Book of Foldables</u></li> <li>• <u>KAMICO grades 5 and 6</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>MATH course 1 Volume 1</u></li> <li>• <u>Lone STAAR Rigorous Problem Solving</u></li> </ul>
	Notes from Council



<ul style="list-style-type: none"> <li>• Worksheets Provided</li> <li>• PowerPoints Provided</li> <li>• Web links that are provided for some lessons</li> <li>• <a href="http://www.ixl.com/math/grade-6">http://www.ixl.com/math/grade-6</a></li> <li>• <a href="http://www.math-aids.com/">http://www.math-aids.com/</a></li> <li>• Any resource from the approved list</li> </ul>	<ul style="list-style-type: none"> <li>• % is always out of 100.</li> </ul>
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### Misconceptions/Underdeveloped Concepts

#### Lesson 2

- Remind students that they may have to annex zeros to properly place the decimal point when renaming a percent as a decimal.

## Back to Chapter 1

### Lesson 5: Classifying Rational Numbers

#### Objectives

##### Skills: The student will be able to...

- Classify whole numbers, integers, and rational numbers using a visual representation such as a Venn diagram to describe relationships between sets of numbers.
- Extend representations for division to include fraction notation such as  $\frac{a}{b}$  represents the same number as  $a \div b$  where  $b \neq 0$ .

##### TEKS

**Readiness:** NONE

**Supporting:** 6.2A, 6.2E

**Process Skills:** 6.1A, 6.1B, 6.1C, 6.1D, 6.1F, 6.1G

**ELPS:** 4C, 1A, 4D

#### Performance Indicators

##### By the end of the lesson the student will be able to...

- Classify rational numbers.

#### Lesson Information

##### Activities

- Textbook pg. 65-76
- Lone STAAR Rigorous Problem Solving Set: NONE

##### Extra Videos & Presentations

- PowerPoint & worksheets in folder
- <http://www.youtube.com/watch?v=QqfD7BUSByE>
- <http://www.youtube.com/watch?v=6hYeS8I9zQ>

##### On-line Games & Practice

- [http://www.adaptedmind.com/gradelistsimple.php?utm\\_expid=3385351746.v4.CF2YO0Th28LJlapUvWHQ.1&utm\\_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html](http://www.adaptedmind.com/gradelistsimple.php?utm_expid=3385351746.v4.CF2YO0Th28LJlapUvWHQ.1&utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html)
- <http://www.mathplayground.com/games2.html>
- <http://www.mathplayground.com/games.html>

##### Vocabulary

- Bar notation
- Repeating Decimals
- Terminating Decimal

Additional Information	
Materials/Resources	Textbook Correlations:
<ul style="list-style-type: none"> <li>Textbook- Math Course 1 Resources</li> <li><u>Lone STAAR Rigorous Problem Solving</u></li> <li>Dinah Zyke's <u>Big Book of Math Foldables</u></li> <li><u>KAMICO</u></li> <li>Worksheets Provided</li> <li>PowerPoints Provided</li> <li>Web links that are provided for some lessons</li> <li><a href="http://www.ixl.com/math/grade-6">http://www.ixl.com/math/grade-6</a></li> <li>Any resource from the approved list</li> </ul>	<ul style="list-style-type: none"> <li><u>MATH course 1 Volume 1</u></li> <li><u>Lone STAAR Rigorous Problem Solving</u></li> </ul>
	Notes from Council
	<ul style="list-style-type: none"> <li>May want to use thinking maps to classify rational numbers for extra practice if your students seem to be having difficulty.</li> </ul>

Misconceptions/Underdeveloped Concepts
<p>Lesson 5</p> <ul style="list-style-type: none"> <li>If students incorrectly place the bar when using bar notation, have them write the repeating decimal on grid paper with one digit per square. Have them highlight the first set of number(s) that repeats. Students should rewrite the decimal so the bar is placed over only the repeating digits in the decimal.</li> </ul>

## Lesson 6: Compare and Order Rational Numbers

Objectives	
Skills: The student will be able to...	TEKS
<ul style="list-style-type: none"> <li><b>Order a set of rational numbers arising from mathematical and real-world contexts.</b></li> <li><b>Locate, compare, and order integers and rational numbers using a number line.</b></li> </ul>	<p><b>Readiness: 6.2D</b></p> <p><b>Supporting: 6.2C</b></p> <p><b>Process Skills: 6.1A, 6.1B</b></p> <p><b>ELPS: 4C, 1A, 4D</b></p>

Performance Indicators
By the end of the lesson the student will be able to...
<ul style="list-style-type: none"> <li>Compare and Order Rational Numbers.</li> </ul>

Lesson Information	
Activities	Vocabulary
<ul style="list-style-type: none"> <li>Textbook pg. 77-84</li> <li><u>Lone STAAR Rigorous Problem Solving</u></li> <li>Set: NONE</li> </ul> <p><b>Extra Videos &amp; Presentations</b></p> <ul style="list-style-type: none"> <li>PowerPoint &amp; worksheets in folder</li> <li><a href="http://www.sheppardsoftware.com/mathgames/numberballs/numberballsAS2.htm">http://www.sheppardsoftware.com/mathgames/numberballs/numberballsAS2.htm</a></li> <li><a href="http://www.sheppardsoftware.com/mathgames/integers/FS_CompareIntegers.htm">http://www.sheppardsoftware.com/mathgames/integers/FS_CompareIntegers.htm</a></li> </ul>	<p><b>GAP VOCABLARY</b></p> <ul style="list-style-type: none"> <li>Greater Than</li> <li>Less Than</li> <li>ascending</li> <li>decimals</li> <li>descending</li> <li>improper fractions</li> </ul>

<ul style="list-style-type: none"> <li>• <a href="http://www.sheppardsoftware.com/mathgames/integers/mathman_integer_numberline.htm">http://www.sheppardsoftware.com/mathgames/integers/mathman_integer_numberline.htm</a></li> </ul> <p><b>On-line Games &amp; Practice</b></p> <ul style="list-style-type: none"> <li>• <a href="http://www.ixl.com/math/grade-6/convert-between-decimals-and-fractions-or-mixed-numbers">http://www.ixl.com/math/grade-6/convert-between-decimals-and-fractions-or-mixed-numbers</a></li> <li>• <a href="http://www.adaptedmind.com/gradelistsimple.php?utm_expid=33853517-46.v4CF2YO0Th28LJlapUvWHQ.1&amp;utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html">http://www.adaptedmind.com/gradelistsimple.php?utm_expid=33853517-46.v4CF2YO0Th28LJlapUvWHQ.1&amp;utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html</a></li> <li>• <a href="http://www.mathplayground.com/games2.html">http://www.mathplayground.com/games2.html</a></li> <li>• <a href="http://www.mathplayground.com/games.html">http://www.mathplayground.com/games.html</a></li> </ul>	<ul style="list-style-type: none"> <li>• mixed numbers</li> <li>• fractions</li> <li>• equivalence</li> <li>• whole numbers</li> </ul>
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Additional Information	
Materials/Resources	Textbook Correlations:
<ul style="list-style-type: none"> <li>• Textbook- <u>Texas Math, Course 1 Resources</u></li> <li>• <u>Lone STAAR Rigorous Problem Solving</u></li> <li>• Dinah Zyke's <u>Big Book of Math Foldables</u></li> <li>• <u>KAMICO</u></li> <li>• Worksheets Provided</li> <li>• PowerPoints Provided</li> <li>• Web links that are provided for some lessons</li> <li>• <a href="http://www.ixl.com/math/grade-6">http://www.ixl.com/math/grade-6</a></li> <li>• Any resource from the approved list</li> </ul>	<ul style="list-style-type: none"> <li>• <u>MATH course 1 Volume 1</u></li> <li>• <u>Lone STAAR Rigorous Problem Solving</u></li> </ul>
	Notes from Council
	<ul style="list-style-type: none"> <li>• Students need to remember that in order to compare rational numbers all the numbers need to be in the same format (example- all decimals, fractions, etc.)</li> <li>• Reminder comparing negative rational number is new to 6<sup>th</sup> grade</li> </ul>

Misconceptions/Underdeveloped Concepts
<p>Lesson 6</p> <ul style="list-style-type: none"> <li>• Some students compare rational numbers incorrectly because they assume that decimals with fewer places are less than decimals with more places. Have students annex zeros when comparing decimals so they can compare the value of the digits to the same number of places.</li> <li>• Struggle with comparing negative rational numbers, because the larger the absolute value of a negative number the smaller the number actually which contradicts positive rational numbers. Example: <math>-40 &lt; -20</math></li> </ul>

## **Lesson 7: The Coordinate Plane**

Objectives	
Skills: The student will be able to...	TEKS
<ul style="list-style-type: none"> <li>• <b>Graph points in all four quadrants using ordered pairs of rational numbers.</b></li> </ul>	<p><b>Readiness: 6.11A</b></p> <p><b>Supporting: NONE</b></p> <p><b>Process Skills: 6.1A, 6.1B</b></p> <p><b>ELPS: 4C, 1A, 4D</b></p>

Performance Indicators
By the end of the lesson the student will be able to...
<ul style="list-style-type: none"> <li>• Graph points in all four quadrants using ordered pairs of rational numbers.</li> </ul>

Lesson Information	
Activities	Vocabulary
<ul style="list-style-type: none"> <li>Textbook pg. 85-92</li> <li><u>Lone STAAR Rigorous Problem Solving</u> Set: 16, 36, 56, 76, 96, 116</li> <li>5<sup>th</sup> grd <u>KAMICO Book 2</u>, "What's my Line" pg. 178</li> <li>5<sup>th</sup> grd <u>KAMICO Book 2</u>, "Pile up those Points" Pg. 57</li> </ul> <p><b>Extra Videos &amp; Presentations</b></p> <ul style="list-style-type: none"> <li>PowerPoint &amp; worksheets in folder</li> <li><a href="http://www.youtube.com/watch?v=r16l6LB2YbQ">http://www.youtube.com/watch?v=r16l6LB2YbQ</a></li> <li><a href="http://www.youtube.com/watch?v=9EfpFexoNQ">http://www.youtube.com/watch?v=9EfpFexoNQ</a></li> <li><a href="http://www.youtube.com/watch?v=cHpUhk8OhBM">http://www.youtube.com/watch?v=cHpUhk8OhBM</a></li> <li><a href="http://www.youtube.com/watch?v=l9zOi6KPGD4">http://www.youtube.com/watch?v=l9zOi6KPGD4</a></li> </ul> <p><b>On-line Games &amp; Practice</b></p> <ul style="list-style-type: none"> <li><a href="http://www.counton.org/games/virtualmathfest/dinosaur.html">http://www.counton.org/games/virtualmathfest/dinosaur.html</a></li> <li><a href="http://www.funbrain.com/co/index.html">http://www.funbrain.com/co/index.html</a></li> <li><a href="http://funbasedlearning.com/algebra/graphing/default.htm">http://funbasedlearning.com/algebra/graphing/default.htm</a></li> <li><a href="http://education.jlab.org/topquarkgame/index.html">http://education.jlab.org/topquarkgame/index.html</a></li> <li><a href="http://www.learningplanet.com/act/lunar/index.asp">http://www.learningplanet.com/act/lunar/index.asp</a></li> <li><a href="http://www.primarygames.com/puzzles/strategy/battleship/">http://www.primarygames.com/puzzles/strategy/battleship/</a></li> <li><a href="http://www.adaptedmind.com/gradelistsimple.php?utm_exp=3385351746.v4CF2YOOTh28LJlapUvWHQ.1&amp;utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html">http://www.adaptedmind.com/gradelistsimple.php?utm_exp=3385351746.v4CF2YOOTh28LJlapUvWHQ.1&amp;utm_referrer=http%3A%2F%2Fwww.adaptedmind.com%2FMath-Worksheets.html</a></li> <li><a href="http://www.mathplayground.com/games2.html">http://www.mathplayground.com/games2.html</a></li> <li><a href="http://www.mathplayground.com/games.html">http://www.mathplayground.com/games.html</a></li> </ul>	<ul style="list-style-type: none"> <li>Quadrants</li> </ul> <p><b>GAP Vocabulary</b></p> <ul style="list-style-type: none"> <li>X-axis</li> <li>Y-axis</li> <li>Origin</li> <li>Coordinate Pairs/Ordered Pairs</li> <li>Coordinate Grid</li> </ul>

Additional Information	
Materials/Resources	Textbook Correlations:
<ul style="list-style-type: none"> <li>Textbook- Math Course 1 Resources</li> <li><u>Lone STAAR Rigorous Problem Solving</u></li> <li>Dinah Zyke's <u>Big Book of Math Foldables</u></li> <li>KAMICO grd 5</li> <li>Worksheets Provided</li> <li>PowerPoints Provided</li> <li>Web links that are provided for some lessons</li> <li><a href="http://www.ixl.com/math/grade-6">http://www.ixl.com/math/grade-6</a></li> <li>Any resource from the approved list</li> </ul>	<ul style="list-style-type: none"> <li><u>MATH course 1 Volume 1</u></li> <li><u>Lone STAAR Rigorous Problem Solving</u></li> </ul>
	<p><b>Notes from Council</b></p> <ul style="list-style-type: none"> <li>Students in the past have only had to know quadrant 1, but now we are including all four quadrants with rational numbers including fractions and decimals.</li> </ul>

Misconceptions/Underdeveloped Concepts
<p>Lesson7</p> <ul style="list-style-type: none"> <li>Some students may confuse the order and naming of the quadrants. They may think of the coordinate plane starting with Quadrant I in the top left region. Remind them that Quadrant I is the quadrant in which both the x-coordinates and y-coordinates of points are positive. Remind them that the rest of the quadrants are in order going counter clockwise from Quadrant I.</li> <li>Some students may think the order of the coordinates in an ordered pair is not significant, instead of each coordinate representing direction and together describing a specific location.</li> </ul>

## Parent Resources



- <http://mathatube.com/>
- <http://www.math-aids.com/>
- <http://www.projectsharetexas.org/>
- <http://www.khanacademy.org/>
- Teacher's web pages
- Math textbook website- Course One (coming soon)