

Spring Old Elementary - Essential Standards

Semester: one Grade Level/Department: Grade 4

Subject: Math

Team Members: Fink

Standard #	Description	Example or Rigor	Prior Skills Needed	Assessment	When Taught?
4.1.1.1	Demonstrate fluency with multiplication and division facts.		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math Self-Made Test/Quizzes	This material will be taught one out of every three days throughout the first semester.
4.1.1.2	Use an understanding of place value to multiply a number by 10, 100 and 1000.		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math Self-Made Test/Quizzes	This material will be taught one out of every three days throughout the first semester.
4.1.1.3	Multiply multi-digit numbers, using efficient and generalizable procedures, based on knowledge of place value, including standard algorithms.		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math Self-Made Test/Quizzes	This material will be taught one out of every three days throughout the first semester.
4.1.1.4	Estimate products and quotients of multi-digit whole numbers by using rounding, benchmarks and place value to assess the reasonableness of results. <i>For example: 53×38 is between 50×30 and 60×40, or between 1500 and 2400, and $411/73$ is between 5 and 6.</i>		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math Self-Made Test/Quizzes	This material will be taught one out of every three days throughout the first semester.
4.1.1.5	Solve multi-step real-world and mathematical problems requiring the use of addition, subtraction and multiplication of multi-digit whole numbers. Use various strategies, including the relationship between operations, the use of technology, and the context of the problem to assess the reasonableness of		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math Self-Made Test/Quizzes	This material will be taught one out of every three days throughout the first semester.

Springfield Elementary—Essential Standards

	results.					
4.1.1.6	<p>Use strategies and algorithms based on knowledge of place value, equality and properties of operations to divide multi-digit whole numbers by one- or two-digit numbers. Strategies may include mental strategies, partial quotients, the commutative, associative, and distributive properties and repeated subtraction.</p> <p><i>For example: A group of 324 students is going to a museum in 6 buses. If each bus has the same number of students, how many students will be on each bus?</i></p>		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math Self-Made Test/Quizzes	This material will be taught one out of every three days throughout the first semester.	
4.1.2.1	<p>Represent equivalent fractions using fraction models such as parts of a set, fraction circles, fraction strips, number lines and other manipulatives. Use the models to determine equivalent fractions.</p>		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math Self-Made Test/Quizzes	This material will be taught one out of every three days throughout the first semester.	
4.1.2.2	<p>Locate fractions on a number line. Use models to order and compare whole numbers and fractions, including mixed numbers and improper fractions.</p> <p><i>For example: Locate $\frac{2}{3}$ and $1\frac{1}{4}$ on a number line and give a comparison statement about these two fractions, such as "$\frac{2}{3}$ is less than $1\frac{1}{4}$."</i></p>		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math Self-Made Test/Quizzes	This material will be taught one out of every three days throughout the first semester.	
4.1.2.3	<p>Use fraction models to add and subtract fractions with like denominators in real-world and mathematical situations. Develop a</p>		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math	This material will be taught one out of every three days throughout	

Springfield Elementary—Essential Standards

	rule for addition and subtraction of fractions with like denominators.		student in class	Self-Made Test/Quizzes	the first semester.
4.1.2.4	<p>Read and write decimals with words and symbols; use place value to describe decimals in terms of thousands, hundreds, tens, ones, tenths, hundredths and thousandths.</p> <p><i>For example:</i> Writing 362.45 is a shorter way of writing the sum: 3 hundreds + 6 tens + 2 ones + 4 tenths + 5 hundredths, which can also be written as: three hundred sixty-two and forty-five hundredths.</p>		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math Self-Made Test/Quizzes	This material will be taught one out of every three days throughout the first semester.
4.1.2.5	<p>Compare and order decimals and whole numbers using place value, a number line and models such as grids and base 10 blocks.</p>		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math Self-Made Test/Quizzes	This material will be taught one out of every three days throughout the first semester.
4.1.2.6	<p>Read and write tenths and hundredths in decimal and fraction notations using words and symbols; know the fraction and decimal equivalents for halves and fourths.</p> <p><i>For example:</i> $\frac{1}{2} = 0.5 = 0.50$ and $\frac{7}{4} = 1\frac{3}{4} = 1.75$, which can also be written as one and three-fourths or one and seventy-five hundredths.</p>		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math Self-Made Test/Quizzes	This material will be taught one out of every three days throughout the first semester.
4.1.2.7	<p>Round decimals to the nearest tenth.</p> <p><i>For example:</i> The number 0.36 rounded to the nearest tenth is 0.4.</p>		Teacher will evaluate each individual student and then set up an individualized plan and classroom plan to meet the needs of each student in class	IXL Math Connections Study Island AAA Math Self-Made	This material will be taught one out of every three days throughout the first semester.

Spring of Elementary—Essential Standards

Semester: 2 Grade Level/Department: 4 Subject: Math Team Members: Fink

Standard #	Description	Example or Rigor	Prior Skills Needed	Assessment	When Taught?
4.3.2.1	Measure angles in geometric figures and real-world objects with a protractor or angle ruler.		Teacher will make assessment of each individual in class and then make a plan on how to best deliver the standards to each student/class.	IXL Math Connections Study Island AAA Math	One out of every 3 days throughout 2 nd semester
4.3.2.1	Measure angles in geometric figures and real-world objects with a protractor or angle ruler.	<i>For example:</i> Compare different hockey sticks according to the angle between the blade and the shaft.	Teacher will make assessment of each individual in class and then make a plan on how to best deliver the standards to each student/class.	IXL Math Connections Study Island AAA Math	One out of every 3 days throughout 2 nd semester
4.3.2.3	Understand that the area of a two-dimensional figure can be found by counting the total number of same size square units that cover a shape without gaps or overlaps. Justify why length and width are multiplied to find the area of a rectangle by breaking the rectangle into one unit by one unit squares and viewing these as grouped into rows and columns.	<i>For example:</i> How many copies of a square sheet of paper are needed to cover the classroom door? Measure the length and width of the door to the nearest inch and compute the area of the door.	Teacher will make assessment of each individual in class and then make a plan on how to best deliver the standards to each student/class.	IXL Math Connections Study Island AAA Math	One out of every 3 days throughout 2 nd semester
4.3.3.1	Apply translations (slides) to figures.		Teacher will make assessment of each individual in class and then make a plan on how to best deliver the standards to each student/class.	IXL Math Connections Study Island AAA Math	One out of every 3 days throughout 2 nd semester
4.3.3.2	Apply reflections (flips) to figures by reflecting over vertical or horizontal lines and relate reflections to lines of symmetry.		Teacher will make assessment of each individual in class and then make a plan on how to best deliver the standards to each student/class.	IXL Math Connections Study Island AAA Math	One out of every 3 days throughout 2 nd semester
4.3.3.3	Apply rotations (turns) of 90° clockwise or counterclockwise.		Teacher will make assessment of each individual in class and then make a plan on how to best deliver the standards to each student/class.	IXL Math Connections Study Island AAA Math	One out of every 3 days throughout 2 nd semester

Spring Old Elementary—Essential Standards

4.3.3.4	Recognize that translations, reflections and rotations preserve congruency and use them to show that two figures are congruent.		Teacher will make assessment of each individual in class and then make a plan on how to best deliver the standards to each student/class.	IXL Math Connections Study Island AAA Math	One out of every 3 days throughout 2 nd semester
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Description—What is the essential standard to be learned? Define in student-friendly vocabulary.

Example or Rigor—What does this look like? Provide an example or sample problem.

Prior Skills Needed—What knowledge or skills must the student already have in order to master this standard?

Assessment—How will student mastery be measured?

When Taught—What is the proposed time frame for teaching this standard?

**Adapted from Solution-Tree 2009 Reproducibles*