UNIT OF STUDY

Title: Unit 4 Subject/Course: Math Length: 2 ½ v				
Topic: Numbers and Operations (Decimals)	Grade: 5 Designer: O'Cain, Smith			
UNIT GOALS AND EXPECTATIONS				
 IMPORTANT CONCEPTS: Estimating sums and differences of decimals Multiplying and dividing of decimals 	ESSENTIAL QUESTIONS: How can models help us understand the addition and subtraction of decimals? How is computation with rational numbers similar and different to whole number computation?			
STUDENT LEARNING EXPECTATIONS: NO.2.5.5 Model addition, subtraction, and multiplication of fractions with like and unlike denominators and decimals	NO.3.5.2 Develop and use <i>algorithms</i> : • to add and subtract numbers containing decimals (up to thousandths place) • to multiply decimals (hundredths x tenths) • to divide decimals by <i>whole number</i> divisors • to add and subtract fractions with like denominators			
SPECIFIC DECLARATIVE KNOWLEDGE – What I know Explain Vocabulary terms: least common multiple and common denominator Know that the denominator stays the same and represent congruent pieces	A. *use manipulatives to add, subtract and multiply fractions with like denominators			
UNIT A				

(Include tasks related to Dimensions 3 and 4 and Bloom's Taxonomy)

"Rolling Numbers" activity. (Forming numbers from rolling a number cube and then adding the whole number and decimal.

Open response – adding /subtracting decimals

Traditional Assessments:

Teacher constructed quiz on adding/subtracting decimals. Teacher constructed test on adding/subtracting/multiplying, and dividing decimals.

Other Evidence of Learning: Weekly homework assignments Classwork practice

	ACTIVITIES AND LEARNING EXPERIENCES	Resources	
1.	Use <u>www.brainpop.com</u> (decimals) to introduce the concept of computing decimals.	www.brainpop.com (decimals)	
2.	Use Harcourt text and modeling to introduce adding and subtracting decimals.	Harcourt text – Ch. 3 Lesson 5	
3.	Use instructional video (united streaming) to reinforce the concept of adding and subtracting decimals.	www.unitedstreaming.com (Math Mastery:Adding and subtracting decimals- Lesson 2)	
4.	Use a hundreds grid to model the process of multiplying decimals.	Hundreds grid	
5.	Use Harcourt text as practice to reinforce the process of multiplying decimals.	Harcourt text – Ch. 8 Lesson 3	
6.	Use instructional video (united streaming) to reinforce multiplying decimals	www.unitedstreaming.com (Math Mastery: Multiplying fractions –Lesson 5)	
7.	Introduce the concept of dividing decimals by whole numbers by using base ten blocks.	Base ten blocks	
8.	Use Harcourt text to reinforce and practice the concept of dividing decimals by whole numbers.	Harcourt text – Ch. 11 Lesson 3	
9.	Use instructional video (united streaming) to reinforce dividing decimals by whole numbers.	www.unitedstreaming.com (Math Mastery: Dividing decimals-Lesson 3	
Career Connections			
Disc	Discuss the use of decimals in the financial world, such as careers in the stock market, trade broker, etc.		

Performance Assessment

Title: Number Rolling

Expectation: Student will be able to write, compare, and add decimals by using a number cube.

Description:

Students will:

- 1. Roll number cube 6 times.
- 2. Write each number rolled on the blanks. (first 3 whole numbers, last three placed behind the decimal point)
- 3. Write number in expanded form and word form.
- 4. Repeat steps 1-3.
- 5. Compare the two numbers (greater than, less than)
- 6. Find the sum of the two numbers

First number:
Expanded:
Word Form:
Second number:
Expanded:
Word Form:
Compare numbers:
Sum: