Unit 2	Topic 2: Use Models to Add and Subtract Decimals				
Objective #	Enter Each Objective Below	Basic Example	Intermediate Example	Advanced Example	
2-1	Use rounding or compatible numbers to estimate sums and differences of whole numbers	55+12+30 100+235+115 5,323 + 2,611			
2-2	I can add and subtract whole numbers using different strategies.	55+12+30 100+235+115 5,323 + 2,611			
2-3	I can use rounding or compatible numbers to estimate sums and differences of decimal numbers.	To add 6.53 + 1.28, adjust 1.28 to make it easier to add. 6.53 is closer to 7 and 1.28 is closer to 1. So, a good estimate would be 7+1=8.	Rachel bought a book for \$5.49 and a game for \$10.98. She paid with a \$20 bill. Which is the best estimate of the amount of change she should receive?  A \$4 B \$6 C \$14 D \$16	A gardender is estimating the amount of mulch needed for two garden beds. There is no room to store extra mulch. Is it better to estimate a greater or lesser amount than the mulch needed? Why?	
2-4	Model sums of decimals to the hundredths.	Use place-value blocks to model \$0.85 + \$0.40.	Each set of place-value blocks below represents a decimal. Each set of place-value blocks below represents a decimal.  What is the sum of the decimals?	Critique Reasoning Juan adds 3.8 + 4.6 and gets a sum of 84. Is his answer correct? Tell how you know.	
2-5	Model differences of decimals to the hundredths.	Show 1.57 with place-value blocks.  1.57 o.07  To subtract 0.89, regroup the blocks and remove 8 tenths and 9 hundredths. The blocks remaining are the difference.	Write an expression that is represented by the model below.	Is the difference of 1.4824 less than or greater than one? Use a model to justify your answers.	
2-6	Adding decimals to hundredths step by step	Write the numbers, lining up the digits by place value. Include the zeros as place holders in the ones place.  ones * tenths hundredths 0 * 6 2 + 0 * 5 6  Add by place value.  ones * tenths hundredths 0 * 6 2 + 0 * 5 6  1 * 1 (0.6 + 0.5) 1 * 1 8  The scientist used 1.18 milliliters of solution.	Just like with whole numbers, line up the addends by place value. The decimal points will also line up.   tens   ones   tenths   hundredths   2	2.94 + 45 + 58.06	

Subtracting decimals to the hundredths step by step	You can use a number line to subtract.  -4  -0.07  1.55   1.92  5.92	Here's one way to subtract using partial differences.  Find 5.92 – 4.37  5.92  -4.00  1.92  -0.30  1.62  -0.07  subtract 3 tenths  1.62  -0.07  subtract 7 hundredths  5.92 – 4.37 = 1.55	Complete the puzzle. Every triangle will be the difference between the rectangle and the oval.
Use prior math knowledge and equations or bar diagrams to solve problems		Show how you can model this problem.  I can use bar diagrams and equations to represent and solve this problem.  How much money did Lucy receive?  7 total money received  \$20 \$15 \$32 \$20 \$15 \$32 \$20 + \$15 + \$32 = \$67 received  How much money does Lucy have left?  \$87 total received  \$10.85 7 money left \$67.00 - \$10.85 = \$56.15 Lucy has \$56.15 left.	Use a bar diagram to show whether or not your answer is reasonable