

EnVision Math Unit Lesson Plan			Common Core Standards: 4.NBT.3; 4.NBT.4; 4.OA.3	
Grade Level: Fourth Grade		Topic 4: Addition and Subtraction of Whole Numbers		
Instructional Emphasis: Number and Operations in Base Ten			Essential Questions:	
Big Ideas: <ul style="list-style-type: none"> 4-1: Representing numbers and numerical expressions in equivalent forms can make some calculations easy to do mentally. There is more than one way to do a mental calculation. 4-2: There is more than one way to estimate a sum or difference. Each estimation technique given a way to replace numbers with other numbers that are close and easy to compute with mentally. 4-3, 4-4, 4-5: The standard addition and subtraction algorithms for multi-digit numbers break the calculation into simpler calculations using place value starting with the ones, then the tens, and so on. 4-6: Information in a problem can often be shown using a picture or diagram and used to understand and solve the problem. Some problems can be solved by writing and completing a number sentence or equation. 			<ul style="list-style-type: none"> How can you use mental math to add and subtract? (4-1) How can you estimate sums and differences of whole numbers? (4-2) How do you add whole numbers? (4-3) How do you subtract whole numbers? (4-4) How do you subtract across zeros? (4-5) How can a bar diagram help you solve an addition or subtraction problem? (4-6) 	
Lesson 1: Using Mental Math to Add and Subtract	Lesson 2: Estimating Sums and Differences of Whole Numbers	Lesson 3: Adding Whole Numbers	Lesson 4: Subtracting Whole Numbers	Lesson 5: Subtracting Across Zeros
Vocabulary: breaking apart; compensation; counting on; Commutative Property of Addition; Associative Property of Addition; Identity Property of Addition Objective: Students will apply a variety of methods to add and subtract whole numbers mentally. Materials: Place-Value Blocks (Teaching Tool 8) (per group) Content Reviewed: Count Money; Subtraction; Read Whole Numbers; Place Value; Addition and	Vocabulary: Objective: Students will round whole numbers to estimate sums and differences. Materials: Place-Value Blocks (Teaching Tool 8) (per group) Content Reviewed: Read Whole Numbers; Mental Math; Time; Round Whole Numbers; Addition and Subtraction; Compare Standard Length; Addition; Multiplication Standard: 4.NBT.3; 4.NBT.4; 4.OA.3	Vocabulary: Objective: Students will add numbers to hundreds and thousands with and without regrouping. Materials: Place-Value Blocks (Teaching Tool 8) (per pair) Content Reviewed: Add; Estimate to Add; Round; Subtraction Standard: 4.NBT.4	Vocabulary: inverse operations Objective: Students will subtract numbers to thousands with and without regrouping. Materials: Place-Value Blocks (Teaching Tool 8) Content Reviewed: Addition; Round; Patterns; Subtraction; Multiplication Facts; Multiply by 10 Standard: 4.NBT.4	Vocabulary: Objective: Students will subtract numbers with zeros to thousands. Materials: Place-Value Chart (Teaching Tool 10) Content Reviewed: Numbers in Standard Form; Compare Whole Numbers; Round Whole Numbers; Problem Solving Standard: 4.NBT.4

Subtraction; Division; Recognize Patterns; Identify Geometrical Figures Standard: 4.NBT.3; 4.OA.3				
Assessment	Assessment	Assessment	Assessment	Assessment
Topic 4 Introduction Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework
Lesson 6: Problem Solving: Make an Organized List				
Vocabulary: Objective: Students will use a picture or diagram to translate an everyday situation into a number sentence or equation. Materials: Content Reviewed: Add Whole Numbers; Make Change; Round Whole Numbers; Multiplication Standard: 4.NBT.4; 4.OA.3				
Assessment				
Daily Common Core Review Problem-Based Interactive Learning				

Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework Topic 4 Assessment				
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