

## NJDOE MODEL CURRICULUM PROJECT

<b>CONTENT AREA: Mathematics</b>	<b>GRADE: 1</b>	<b>UNIT: # 2</b>	<b>UNIT NAME: Word Problems Involving Addition and Subtraction</b>
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#	STUDENT LEARNING OBJECTIVES	CORRESPONDING CCSS
<b>1</b>	Use addition and subtraction within 20 to solve word problems involving situations or adding to, taking from, putting together, taking apart, and comparing with unknowns in all positions.	<b>1.OA.1</b>
<b>2</b>	Solve addition word problems with three whole numbers with sums less than or equal to 20.	1.OA.2
<b>3</b>	Demonstrate understanding of the equal sign by determining if an equation is true or false.	1.OA.7
<b>4</b>	Solve addition or subtraction equations by finding the missing whole number in any position.	1.OA.8
<b>5</b>	Count to 120, starting at any number less than 120.	<b>1.NBT.1</b>
<b>6</b>	Read and write numerals to 120 including representing a number of objects with a written numeral.	<b>1.NBT.1</b>

### Repeated Standards

**SLO #1** is a benchmark for standard **1.OA.1** in this unit: **Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions. E.g. by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.**

**SLOs #5 & #6** are benchmarks for standard **1.NBT.1** in this unit: **Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.**

**NOTE: SLO #1 for standard 1.OA.1 as written in this unit will be repeated in Unit #4 and Unit #5.**

**NOTE: SLOs #5 and #6 for standard 1.NBT.1 will be repeated in Unit #4.**

***Bold type indicates grade level fluency requirements.*** (Identified by PARCC Model Content Frameworks).

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**GRADE: 1**

**UNIT: # 2**

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### Selected Opportunities for Connection to Mathematical Practices

**1. Make sense of problems and persevere in solving them.**

SLO #1 Know the process and necessary information needed to solve addition and subtraction word problems with unknown quantities (within 20).

SLO #2 Analyze the information given in an addition word problem (with three numbers) in order to solve the problem.

SLO #4 Analyze equations with missing values in any position and be able to solve the equations.

**2. Reason abstractly and quantitatively.**

SLO #1 Understand the known and unknown quantities in word problems and how they relate to solving the problem.

SLO #2 Understand what the numbers in different word problems represent and how the information is relevant to the solution.

SLO #6 Know how to represent the quantity or set of objects with a written numeral of any number less than 120.

**3. Construct viable arguments and critique the reasoning of others.**

SLO #3 Understand the quantities in an equation and demonstrate this understanding by applying the equal sign correctly.

**4. Model with mathematics.**

SLO #1 be able to write a mathematical equation based on a word problem.

SLO #2 Apply previously learned addition skills to solve addition word problems (with three numbers).

**5. Use appropriate tools strategically.**

**6. Attend to precision.**

SLO #3 Understand the meaning of the equal sign and apply the sign consistently and appropriately to equations.

**7. Look for and make use of structure.**

**8. Look for and express regularity in repeated reasoning.**

***Bold type identifies possible starting points for connections to the SLOs in this unit.***

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Code #	Common Core State Standards
<b>1.OA.1</b>	Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.2
1.OA.2	Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.
1.OA.7	Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. <i>For example, which of the following equations are true and which are false? <math>6 = 6</math>, <math>7 = 8 - 1</math>, <math>5 + 2 = 2 + 5</math>, <math>4 + 1 = 5 + 2</math>.</i>
1.OA.8	Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. <i>For example, determine the unknown number that makes the equation true in each of the equations <math>8 + ? = 11</math>, <math>5 = \square - 3</math>, <math>6 + 6 = \square</math>.</i>
<b>1.NBT.1</b>	Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.

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