

Grade 2 - Unit F - Adding/Subtracting within 1000

Unit Focus

This unit incorporates concepts of multi-digit addition and subtraction within story problem contexts. Students will spend time working together to solve and create story problems involving adding and subtracting 3-digit numbers within real-world applications such as a toy store and party planning. Emphasis is placed on student-invented and generated strategies, such as concrete models, drawings, and strategies based on place value through 1,000.

Stage 1: Desired Results - Key Understandings

Standard(s)		Transfer	
• () • M • H • U	Represent and solve problems involving addition and subtraction. Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using	Students will be able to independently use their learning to T1 Initiate a plan using a variety of methods/strategies appropriately, execute it, and evaluate the reasonableness and accuracy of the solution. T2 Construct viable arguments using clear and appropriate mathematical language and critique the reasoning of others. Meaning	
t	drawings and equations with a symbol for the unknown number to represent the problem. (CCSS.MATH.CONTENT.2.OA.A.1)	Understanding(s)	Essential Question(s)
• () a () • () • () • () • () • ()	 Understand place value. Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons. (CCSS.MATH.CONTENT.2.NBT.A.4) Use place value understanding and properties of operations to add and subtract. Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or 	Students will understand that U1 Mathematicians construct viable arguments to explain problems, solutions, and mathematical representations. U2 Mathematicians monitor progress while problem solving, change course if necessary and evaluate the reasonableness of their solution.	Students will keep considering Q1 Have I sufficiently supported my answer and shown my work? Q2 What makes an effective problem solver?
	subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.	Acquisition of Knowledge and Skill	
	(CCSS.MATH.CONTENT.2.NBT.B.7) Mentally add 10 or 100 to a given number 100-900, and mentally subtract 10	Knowledge	Skill(s)
• H	the properties of operations. (CCSS.MATH.CONTENT.2.NBT.B.9) Work with time and money.	Students will know K1 Some strategies for adding and subtracting are more effective and efficient K2 The position of any individual digit determines the size of the group that the digit is counting	Students will be skilled at S1 Creating addition, subtraction, and money story problems in a real-world context S2 Adding and subtracting 2- and 3-digit numbers using invented/generated strategies

Stage 1: Desired Results - Key Understandings

- Mathematical Practices
- Make sense of problems and persevere in solving them. (CCSS.MATH.MP.1)
- Construct viable arguments and critique the reasoning of others.
 (CCSS.MATH.MP.3)

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- Analyzing: Examining information/data/evidence from multiple sources to identify possible underlying assumptions, patterns, and relationships in order to make inferences. (POG.1.2)
- Collective Intelligence: Working respectfully and responsibly with others, exchanging and evaluating ideas to achieve a common objective. (POG.3.1)

K3 There are multiple ways we can work together to solve problems

K4 Vocabulary: hundreds, multiples, skipcounting, tens, divide, division, equal groups, half, quarter, equal parts, fraction, half, share, third, eighth, whole, fair, predic(tion), ones, cent, dollar, decimal point, place value, story problem, strategies, compare, left over (counting skills, number sense, open number lines, etc)

S3 Recognizing the value of digits in numbers to 1,000

S4 Working with a partner to solve a problem