

Math & Science Collaborative Lesson Plan



Northwest Educational
Service District 189

Together We Can

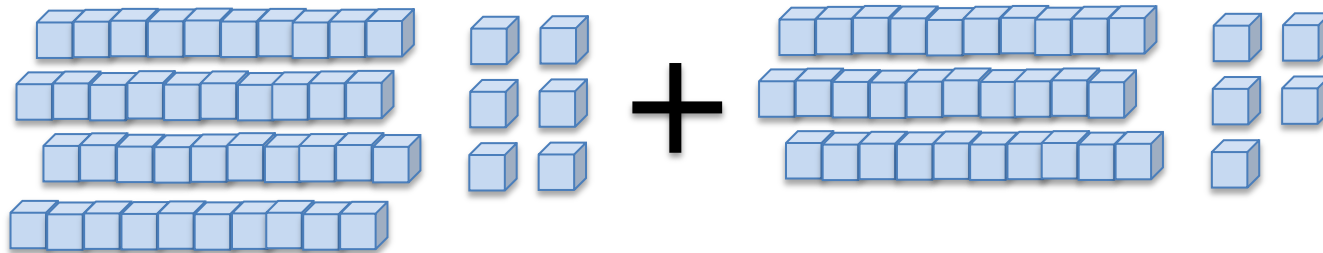
Lesson Title: **Adding 2-digit numbers with Base 10 Blocks**

Unit Learning Target (Standard/Performance Expectation(s)) Add and subtract two-digit numbers mentally and explain the strategies used.		2.2.D	CCSSM 2.NBT.6-9
Building Block or Lesson Learning Target: Using Base 10 blocks in solving double digit number addition		Student Success Criteria: Students can successfully and accurately add sets of double digit numbers	
Previous Lesson Learning Target: Using Base 10 blocks for single digit to single digit and single digit to double digit addition			
Target Introduction/ Thinking Question * Here is a problem – $46 + 35$. How can we use base 10 blocks to help us add larger numbers like this?			
Lesson Progression (Flow) with Talk-Structures (Student Discourse) Begin with story problems involving 2-digit numbers. Students discuss with their “elbow” partner what to do. Students build each number with Base 10 blocks on a place value mat. Students combine Base 10 pieces to demonstrate their solution to the problems. Students in small groups compare their work and discuss any discrepancies. Students write out the number sentences to match their Base 10 displays. Discuss with the class how when there are 10 or more ones in a group, they need to exchange 10 of the ones for a 10 rod. Students discuss in small groups why this needs to be done and then all groups discuss their reasons.		Key terms for this lesson addition, subtraction, sum, difference, more, less, fewer, less than, greater than, verify, increments, combining	Formative Task or Question* <i>Designed to elicit student misconception(s)</i> Who can show us how to add this? $12 + 28$
		Forms of Student Discourse to include: Student to teacher Student to Student Student to small group Small group to large group Large group discussion	
Lesson Closure Please show how to add $45 + 27$.		Exit Task* Successfully demonstrate how to add $45 + 27$.	

Math & Science Collaborative Lesson Plan

Lesson Title: Adding 2-digit numbers with Base 10 Blocks

Do the Math for the Thinking Question



$$(46 + 35) + (6 + 5)$$

$$4 \text{ tens} + 3 \text{ tens} + 1 \text{ ten} + 1 \text{ one} = 81$$

Lesson Anticipated Misconceptions:

12	Students have sometimes
+ 28	tried traditional addition
<hr style="width: 20px; margin: 0;"/> 310	methods incorrectly
	because of the challenge
	of "carrying"

Lesson Instructional Adjustment(s) (if needed)
Tied to common misconception(s)

Manipulatives and materials to include and have ready to support the lesson *

- Double 10 frames
- 2-sided counters
- Place Value Mat
- Unifix Cubes

* Opportunity for formative assessment