Math & Science Collaborative Lesson Plan

Northwest Educational Service District 189
Together We Can

Lesson Title: Addition to 10

Unit Learning Target (Standard/Performance Expectation(s))	**CCSSM K.OA.2**
Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.	

Building Block or Lesson Learning Target: Quickly and accurately compose and decompose any of the numbers from one to ten.	**Student Success Criteria:** Students will successfully show their addition combinations up to 10
Previous Lesson Learning Target: Identify, read aloud and locate numerals from one to thirty-one on a number line	

Target Introduction/ Thinking Question *

Would you please demonstrate many different ways to represent 5, or 8, or 10?

Lesson Progression (Flow) with Talk-Structures (Student Discourse)	**Key terms for this lesson**	**Formative Task or Question*** *Designed to elicit student misconception(s)*
From a given bag of 5 unifix cubes, each student will take a handful and then tell how many cubes are left in the bag. (0 + 5), (1 + 4), (2 + 3), (3 + 2), (4 + 1), (5 + 0) Ask students to tell how they know they have the right answer? Continue with other sum totals up to 10 as proficiency increases.	unifix cubes plus minus equal combinations sum total	Show me how to make a combination for 8. If you have 5 and 2 how many do you have in total?
Ask students to "show me" their solutions. Change to card combinations Play the "Ten Friends" game in pairs and in small groups.	**Forms of Student Discourse to include:** Student to teacher Student to student Student to small group Large group discussion	

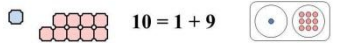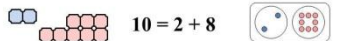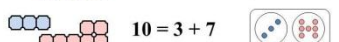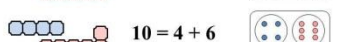| **Lesson Closure** Student will tell how to make ten in many combinations and be able to draw supporting pictures.	**Exit Task*** Student can draw combinations without using cubes or other manipulatives.

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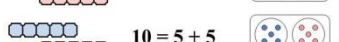
Lesson Title: Addition to 10
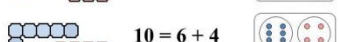
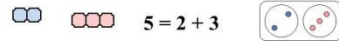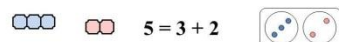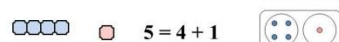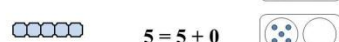## Do the Math for the Thinking Question
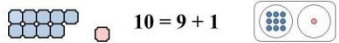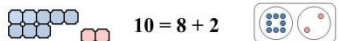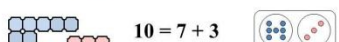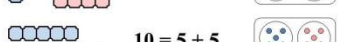
Ten Friends
© Fulcrum Math 2010
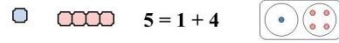
$10 = 1 + 9$
$10 = 2 + 8$
$10 = 3 + 7$
$10 = 4 + 6$
$10 = 5 + 5$

Ten Friends
© Fulcrum Math 2010
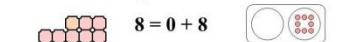
$10 = 9 + 1$
$10 = 8 + 2$
$10 = 7 + 3$
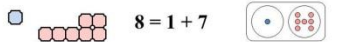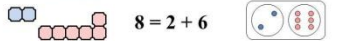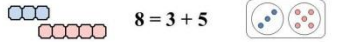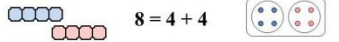$10 = 6 + 4$
$10 = 5 + 5$

Five Friends

$5 = 1 + 4$
$5 = 2 + 3$
$5 = 3 + 2$
$5 = 4 + 1$
$5 = 5 + 0$

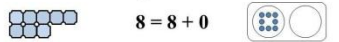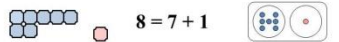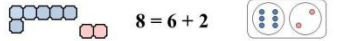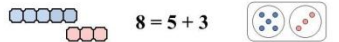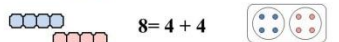**Eight Friends**
© Fulcrum Math 2010

$8 = 0 + 8$
$8 = 1 + 7$
$8 = 2 + 6$
$8 = 3 + 5$
$8 = 4 + 4$

Eight Friends
© Fulcrum Math 2010

$8 = 8 + 0$
$8 = 7 + 1$
$8 = 6 + 2$
$8 = 5 + 3$
$8 = 4 + 4$

Lesson Anticipated Misconceptions:

Miscounting

Unable to show their work

Unable to explain their work

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

Ask the students for more "show me" models.

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

Unifix Cubes

Paper and Pencil

Stir Straws

White Boards and markers

Double Nine Dominoes

* Opportunity for formative assessment