Math & Science Collaborative Lesson Plan

Lesson Title: Two digit Multiplication



Unit Learning Target (Standard/Performance Expectation(s)) 4.1.C		CCSS	SM 4.NBT.5	
Represent multiplication of a two-digit number by a two-digit number with place value models.				
Building Block or Lesson Learning Target: Multiply a 3-digit number by a 2-digit number using expanded notation form versus the standard notation form. Previous Lesson Learning Target: Represent the multiplication of a 3 digit by a 1 digit problem in expanded notation form.		Student Success Criteria: Students can represent multiplication of a two-digit number by a two-digit number with proper place value models.		
What would be a close answer or estimate for 28 times 15?				
 Lesson Progression (Flow) with Talk-Structures (Student Discourse) Talk to your table group about how you can estimate this 28 times 15 problem. Students discuss with their group how to estimate. Model how we know the approximate value we are multiplying. (Landmark #) Using whiteboards and markers, students model the needed steps. Teacher models the ones column multiplication and students practice. Teacher demonstrated zero place holder and models the 10s column multiplication using a different color and students practice on their white boards. Teacher models the addition of the multiplicands and students practice on their white boards. Teacher models the addition of the work and complete the problem Students practice on pairs on a variety of different additional problems. Students compare their work in small groups. 	Key terms for place value distributive factors, col skip counti expanded to ones colum tens colum hundreds of Forms of Stu Student to Student to Large grou	or this lesson e, digits, e property, lumns ng, form n n column in column ident Discourse Teacher small group student p discussion	Formative Task or Question* Designed to elicit student misconception(s) How many tens are there in the problem? What tens would you use for your estimate?	
Lesson Closure Teacher and class review the processes and discuss the differences in the processes. Teacher assigns exit problems.	Exit Task* Successful completion of two multiplication problems of 3-digit by 2-digit numbers.			

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Do the Math for the Thinking Question	Lesson Anticipated Misconceptions:	
If $30 \times 10 = 300$ $30 \times 20 = 600$ So $30 \times 15 = 450$ Therefore, my answer should be slightly less than 450 $20 \times 5 = 100$ $20 \times 10 = 200$ $8 \times 5 = 40$ $8 \times 10 = 80$ 420	Understanding that 28 x 15 is really (20 x 5) plus (20 x 10) plus (8 x 5) plus (8 x 10)	
Lesson Instructional Adjustment(s) (if needed) Tied to common misconception(s) Diagram problems	Manipulatives and materials to include and have ready to support the lesson * Color tiles Graph paper White boards and dry erase markers	

* Opportunity for formative assessment