## Lesson Title: Two digit Multiplication

| Unit Learning Target (Standard/Performance Expectation(s)) 4.1.C |  | M 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: <br> Multiply a 3-digit number by a 2-digit number using expanded notation form versus the standard notation form. |  | Student Success Criteria: <br> Students can represent multiplication of a two-digit number by a two-digit number with proper place value models. |
| Previous Lesson Learning Target: <br> Represent the multiplication of a 3 digit by a 1 digit problem in expanded notation form. |  |  |
| Target Introduction/ Thinking Question * |  |  |
| What would be a close answer or estimate for 28 times 15? |  |  |
| Lesson Progression (Flow) with Talk-Structures (Student Discourse) <br> Talk to your table group about how you can estimate this 28 times 15 problem. Students discuss with their group how to estimate. <br> 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 | Key terms for this lesson place value, digits, distributive property, factors, columns skip counting, expanded form ones column tens column hundreds column | Formative Task or Question* <br> Designed to elicit student misconception(s) <br> How many tens are there in the problem? <br> What tens would you use for your estimate? |
| multiplication using a different color and students practice on their white boards. <br> Teacher models the addition of the multiplicands and students practice on their white boards. Then check the work and complete the problem Students practice on pairs on a variety of different additional problems. Students compare their work in small groups. | Forms of Student Discour <br> Student to Teacher <br> Student to small group <br> Student to student <br> Large group discussion | include: |
| Lesson Closure <br> Teacher and class review the processes and discuss the differences in the processes. Teacher assigns exit problems. | Exit Task* Successful completion by 2-digit numbers. | wo multiplication problems of 3-digit |

## Math \& Science Collaborative Lesson Plan

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

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[^0]:    * Opportunity for formative assessment

