# Unit 2a-Fluently Multiply And Divide Within 100 

Content Area: Mathematics<br>Course(s): Math 3<br>Time Period: $\quad$ Marking Period 2 Length:<br>Status:<br>MP2 Topic 5 5-1 to 5-8<br>Published

## Essential Questions

- What are strategies to solve multiplication and division facts?


## Big Ideas

- Multiplication Tables- Students will use multiplication tables to find patterns and see division as an unknown factor problem.
- Use Strategies- Students will use strategies, including use of multiplication tables, breaking apart, and skip counting.
- Problems and Patterns- Represent and solve problems involving multiplication and division, with a focus on identifying and explaining patterns in arithmetic.
- Connect Stories and Equations- Students will analyze the relationships between the quantities in word problems and connect relationships to the numbers and operations in the corresponding equations


## Technology Connection

8.1.5.AP.4: Break down problems into smaller, manageable sub-problems to facilitate program development.

## Enduring Understandings

## Operations and Algebraic Thinking

3.OA.C [M] Multiply and divide within 100
3.OA.A. 1 interpret products of whole numbers, e.g., interpret $5 \times 7$ as the total number of objects in 5 groups of 7 objects each.
3.OA.A. 2 Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each.
3.OA.A.3 Use multiplication and division within 100 to solve word problems in situations involving equal
groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.
3.OA.C. 7 Fluently multiply and divide within 100 using strategies such as the relationship between multiplication and division (knowing that $8 \times 4=40$, one knows 40 divided by $5=8$ ) for properties of operation.
3.OA.D. 9 Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends

## Mathematical Practices Focus

7. Look for and make use of structure.
