

## DAILY LESSON PLAN

Math GRADE:3

(NO.14/19)

### DAILY LESSON PLAN

Unit 2: Numbers Operations.

Date: \_\_\_\_\_

Topic: Multiply 2-Digit Number by 1-Digit Number.

Year Level: 3

Key Learning Area: Multiplication sums, word problems.

Outcomes: Students will be able to solve double digit multiplication problems.

Students will be able to explain how to solve double digit multiplication problems  
using the place value chart.

### Lesson Structure:

Time	Introduction (Set):	Teaching Approaches
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10 min.	<p>Begin this lesson by reviewing place value. Write a five-digit number on the board. Have students come to the board and identify each number's place value.</p> <p>Explain by examples that it will become difficult for large numbers to add every time. So, we use the symbol "x" and times tables in multiplying numbers.</p> <p>This lesson gives students an introduction to two-digit multiplication. Students will use their understanding of place value and single digit multiplication to begin multiplying two-digit numbers.</p> <p>Tell students, "Today we are going to practice multiplication using the place value chart as a strategy to multiply."</p>	<p>Warm-up Activity:</p> <p>Draw a place value chart on the board and write down the 2 and 1-digit multiplication sum in it. i.e:</p> <div style="text-align: center; margin: 10px 0;"> <table border="1" style="border-collapse: collapse; width: 100px; height: 100px;"> <thead> <tr style="background-color: #4a86e8; color: white;"> <th style="padding: 5px;">Tens</th> <th style="padding: 5px;">Ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">4</td> <td style="text-align: center; padding: 5px;">5</td> </tr> <tr> <td style="text-align: center; padding: 5px;">×</td> <td style="text-align: center; padding: 5px;">2</td> </tr> <tr> <td style="height: 30px;"></td> <td style="height: 30px;"></td> </tr> </tbody> </table> </div> <p>Inquire the place value of written digits from your student. Ask, from which side do we need to start the operation?</p>	Tens	Ones	4	5	×	2		
Tens	Ones									
4	5									
×	2									

**LESSON STRUCTURE:**

Time	Main Content:	Teaching Approaches
25 min.	<p><b>Step-by-Step Procedure:</b></p> <ul style="list-style-type: none"> <li>➤ Tell students that the learning target for this lesson is to be able to multiply two-digit numbers to one-digit number.</li> <li>➤ As you model this problem for them, ask them to draw and write what you present. This can serve as a reference for them when completing problems later.</li> <li>➤ Begin this process by asking students what the digits in our introductory problem represent. For example, "5" represents 5 ones. "2" represents 2</li> </ul>	<p><b>Column Multiplication Strategy:</b></p> <p>Tell your students that we can simply multiply the digits by writing them in column. Highlight the digits with color markers while multiplying.</p>

ones. "4" is 4 tens, and "3" is 3 ones. You can begin this problem by covering the numeral 4. If students believe that they are multiplying  $5 \times 2$ , it seems easier.

- Begin with the ones:

$$\begin{array}{r} 5 \\ \times 2 \\ \hline = 10 \quad (5 \times 2 = 10) \end{array}$$

- Then move on to the tens digit on the top number and the ones on the bottom number:

$$\begin{array}{r} \textcircled{1} \\ 45 \\ \times 2 \\ \hline = 90 \quad (40 \times 2 = 80) \end{array}$$

- This is a step where students naturally want to put down "8" as their answer if they aren't considering the correct place value and carry from one place. Remind them that we need to consider the carry if any, from ones place.
- Once the students get comfortable with the concept. Help them to solve pages number 59 and 60 of the *incredible Mathematics book grade 3*.

**Step 1**  
Multiply the ones

$$\begin{array}{r} 295 \\ \times 5 \\ \hline 5 \end{array}$$

**Step 2**  
Multiply the tens

$$\begin{array}{r} 295 \\ \times 5 \\ \hline 475 \end{array}$$

**Multiplication by Place Value Chart:**

Use this strategy to multiply the 2-digit numbers by 1-digit through place value chart.

**2 digit by 1 digit Multiplication WITH Carrying**

	Tens	Ones	
37	3	7	
x 6	6	6	
2	2	2	
<b>37 x 6 = 222</b>			

Start by multiplying the numbers in the ones place  
 $7 \times 6 = 42$

The 2 in 42 goes in the ones place

The 4 in 42 goes above the tens place

Now we can multiply 6 and our red number in the tens place  
 $6 \times 3 = 18$

Don't forget about the number we carried over to the tens place!  
 $18 + 4 = 22$

**Worksheets:**

Handover multiplication worksheets with riddles. This is the most fun way to engage the students in learning process.

Time	Conclusion:	Teaching Approaches
5 min.	<p>Students will be able to:</p> <p>Solve double digits multiplication problems.</p> <p>Use strategies based on place value and the properties of operations.</p>	<p>At the end of the lesson, give students three examples to try on their own.</p> <p>Let them know that they can do these in any order; if they want to try the harder one (with larger numbers) first,</p>

	Explain how to solve double digit multiplication problems using the place value chart.	they are welcome to do so. As students work on these examples, walk around the classroom to evaluate their skill level.
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Resources:

Writing board, chalk/marker, color pencils, Riddle multiplication Worksheets, Place value chart, Multiplication worksheets of 2-digit to 1-digit number, Incredible Mathematics Grade 3 book, notebooks etc.

Safety Consideration/ Materials

None

Assessment

Related worksheets

Board test

Mind-teasers.

Quiz etc.

Reflection

Students have understood the following:

How to solve double digits multiplication problems.

Use of different strategies based on place value and the properties of operations.

Explain how to solve double digit multiplication problems using the place value chart.

