

# Pub.:Gr 4 My Math Unit 5: Mult. w/two digit numbers

Content Area: **Math**  
Course(s):  
Time Period: **January**  
Length: **4-5 Weeks**  
Status: **Published**

## Unit Overview

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Students will learn strategies to multiply two-digit numbers.

## Enduring Understandings

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We can use the associative property of multiplication to multiply multiples of 10.

We estimate products of two digit numbers by rounding.

We can use the distributive property to find the product of two numbers.

We can use a process to multiply two two-digit numbers.

We can write and solve equations that have more than one operation.

## Essential Questions

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How can I multiply by a two digit number?

## Instructional Strategies & Learning Activities

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Lesson	Objective	Material & Manipulatives	Vocabulary	Standard
Lesson 1 <i>pp.</i> 279-284 <b>Multiply by Tens</b>	Use properties and algorithms to multiply by tens.	<ul style="list-style-type: none"><li>• connecting cubes</li></ul>		4.NBT.5  <b>Major Cluster</b>  MP 1, 2, 3, 4, 5, 6, 7
Lesson 2 <i>pp.</i> 285-290 <b>Estimate Products</b>	Estimate products by rounding.	<ul style="list-style-type: none"><li>• masking tape</li><li>• index cards</li></ul>		4.NBT.3 4.NBT.5

			<b>Major Cluster</b>
			<b>MP 1, 2, 3, 4, 5, 8</b>
	<b>Check My Progress</b>		
Lesson 3 <i>pp.</i> 293-298 <b>Hands On: Use the Distributive Property to Multiply</b>	Explore multiplying by two-digit numbers.	• colored pencils • grid paper	4.NBT.5
			<b>Major Cluster</b>
			<b>MP 3, 5, 7, 8</b>
Lesson 4 <i>pp.</i> 299-304 <b>Multiply by a Two-Digit Number</b>	Multiply two, two-digit numbers.	• base-ten blocks	4.NBT.5
			<b>Major Cluster</b>
			<b>MP 2, 3, 4, 7</b>
Lesson 5 <i>pp.</i> 305-310 <b>Solve Multi-Step Word Problems</b>	Use multiplication to solve multi-step word problems.	• number cubes <b>operation</b>	4.NBT.4 4.NBT.5 4.OA.3
			<b>Major Cluster</b>
			<b>MP 1, 2, 3, 6, 8</b>
Lesson 6 <i>pp.</i> 311-316 <b>Problem-Solving Investigation: Make a Table</b>	Solve problems by making a table.		4.NBT.5
			<b>Major Cluster</b>
			<b>MP 2, 3, 4, 5, 7, 8</b>

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## Integration of 21st Century Themes and Career Exploration

CRP.K-12.CRP2	Apply appropriate academic and technical skills.
CRP.K-12.CRP4	Communicate clearly and effectively and with reason.
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.
CRP.K-12.CRP1	Act as a responsible and contributing citizen and employee.
CRP.K-12.CRP12	Work productively in teams while using cultural global competence.

## Technology Integration

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- SMARTboard technology
- Google Applications (documents, forms, spreadsheets, presentation)
- Dreambox
- Online textbook

TECH.8.1.5.A.CS1	Understand and use technology systems
TECH.8.1.5.A.1	Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.
TECH.8.1.5.A.CS2	Select and use applications effectively and productively.

## Interdisciplinary Connections

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Leveled readers, "What is Recycling?"

## Differentiation

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-Reteach Master

-Hands-On Activity

-Enrich Master

LA.RI.4.4	Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.
LA.RI.4.1	Refer to details and examples in a text and make relevant connections when explaining what the text says explicitly and when drawing inferences from the text.
LA.SL.4.1	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.

## Modifications & Accommodations

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IEP and 504 accommodations will be utilized.

Provide an outline of material to be covered

-Individualized assignments, e.g., length, number, due date, topic

-Allow student to use technology-online textbook

-Use of graphic organizers

-Use highlighter for key information

- Read directions, passages, and word problems aloud as needed-online presentation
- Use of calculator and matrix for multiplication and division
- Provide textbook in audio format
- Demonstrate directions and procedures/give examples

## **Benchmark Assessments**

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AIMS Web

Diagnostic and EOY Assessments

## **Formative Assessments**

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Check My Progress

-My Chapter Review

-Homework Practice

-Independent Practice

## **Summative Assessments**

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Chapter 5 assessment

## **Instructional Materials**

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See instructional materials listed above.

## Standards

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MA.4.NBT.B.5

Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

MA.4.OA.A.3

Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.