Nov. Gr.3 Unit 4: Understanding Multiplication

Content Area:

Math

Course(s): Time Period: Length:

Status:

November 4-5 Weeks Obsolete

Unit Overview

Students will understand how to interpret the product of whole numbers and use arrays to represent multiplication.

Enduring Understandings

We can multiply by using a set of equal groups or by using repeated addition.

Arrays can model multiplication.

We can use the communative property of multiplication to solve problems, and solve word problems by writing multiplication number sentences.

Essential Questions

How do we represent multiplication using sets of equal things?

How do we use arrays to represent multiplication

How do we solve problems using multiplication?

Instructional Strategies & Learning Activities

• Pacing Guide Suggested Pacing

Instruction 7 days Review/Assessment 2 days Total* 9 days

• *Includes additional time for remediation and differentiation.

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Lesson Objective Material & Vocabulary Standard

Lesson 1 pp. 193-198 Hands On: Model Multiplication	Use models to explore the meaning of multiplication.	• connecting cubes • counters	equal groups multiplication multiplication	3.OA.1 3.OA.3
Mulupheation		• 2 paper plates	sentence multiply	Major Cluster
Lesson 2 pp. 199-204 Multiplication as Repeated Addition	Relate multiplication and addition.	• cups (or muffin liners) • counters	factors multiply product	MP 1, 2, 3, 4, 5 3.OA.1 3.OA.3 3.OA.8
				Major Cluster
Lesson 3 pp. 205-210 Hands On: Multiply with Arrays	Use arrays to explore and model multiplication.	color tilesgrid paper (optional)	array Commutative Property of Multiplication	MP 1, 2, 3, 4, 7 3.OA.1 3.OA.3 3.OA.5 Major Cluster
Lesson 4 pp. 211-216 Arrays and Multiplication	Use arrays to multiply.	grid paper24 counters	array Commutative Property of Multiplication	MP 1, 2, 3, 4, 7 3.OA.1 3.OA.3 3.OA.5 3.OA.8
				Major Cluster
Check My Progress				MP 1, 2, 3, 4, 8
Lesson 5 pp. 219-224 Problem-Solving	Use the make a table strategy to solve problems.	papermarkers		3.OA.1 3.OA.3
Investigation: Make a Table				Major Cluster
Use Multiplication to	Use multiplication to find the total number of combinations that can be made when given two groups of		combination tree diagram	MP 1, 2, 4, 5, 6, 7 3.OA.1 3.OA.3 3.OA.8
	objects.	connecting cubes • paper		Major Cluster
		• colored pencils		MP 2, 4, 5,

Integration of Career Readiness, Life Literacies and Key Skills

WRK.9.2.5.CAP	Career Awareness and Planning
WRK.9.2.5.CAP.1	Evaluate personal likes and dislikes and identify careers that might be suited to personal likes.
WRK.9.2.5.CAP.2	Identify how you might like to earn an income.
WRK.9.2.5.CAP.4	Explain the reasons why some jobs and careers require specific training, skills, and certification (e.g., life guards, child care, medicine, education) and examples of these requirements.
TECH.9.4.8.CT	Critical Thinking and Problem-solving
TECH.9.4.8.IML.4	Ask insightful questions to organize different types of data and create meaningful visualizations.
	Digital tools make it possible to analyze and interpret data, including text, images, and sound. These tools allow for broad concepts and data to be more effectively communicated.

Technology and Design Integration

Students will interact with Smartboard, Chromebooks and document camera.

CS.3-5.8.1.5.DA.1 Collect, organize, and display data in order to highlight relationships or support a claim.

CS.3-5.DA Data & Analysis

Data can be organized, displayed, and presented to highlight relationships.

Interdisciplinary Connections

PFL.9.1.4.D.1

Math leveled readers, "Making a Budget"

LA.RI.3.1	Ask and answer questions, and make relevant connections to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers.
LA.RI.3.4	Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 3 topic or subject area.
LA.RI.3.5	Use text features and search tools (e.g., key words, sidebars, hyperlinks) to locate information relevant to a given topic efficiently.
LA.RI.3.7	Use information gained from text features (e.g., illustrations, maps, photographs) and the words in a text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur).
LA.RI.3.10	By the end of the year, read and comprehend literary nonfiction at grade level text-complexity or above, with scaffolding as needed.

Determine various ways to save.

PFL.9.1.4.D.2	Explain what it means to "invest."
PFL.9.1.4.D.3	Distinguish between saving and investing.
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Differentiation	
	the series offers "approaching level", "on level" and "Beyond level"
edition for the activities.	ds-on choices, as well as ELL differentiated support. Please refer to the teacher
edition for the activities.	
Modifications & Accommo	odations
IEP and 504 accommodations v	
Benchmark Assessments	
Aimsweb Assessment, Chapter	Pretests, Dreambox
Formative Assessments	
Teacher observation	
Student conferences	
Discussion	
Activities	
games	
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homework	

Summative AssessmentsMy Math chapter assessments

Instructional Materials

See materials listed above

Standards

MA.3.OA.A.1	Interpret products of whole numbers, e.g., interpret 5×7 as the total number of objects in 5 groups of 7 objects each.
MA.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.
MA.3.OA.B.5	Apply properties of operations as strategies to multiply and divide.
MA.3.OA.D.8	Solve two-step word problems using the four operations. 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.