# Mar. Gr. 3 Unit 9: Properties and Equations <br> Content Area: Math <br> Course(s): <br> Time Period: Length: <br> Status: <br> March <br> 4-5 Weeks <br> Obsolete 

## Unit Overview

Students will understand how to use models to decompose factors and find products, use the distributive property to multiply, use the associative property to multiply, evaluate an expression and write an equation.

## Enduring Understandings

We can use the distributive and associative properties to multiply numbers.
We can evaluate an expression using variables.
We can write an equation to represent a real world problem.

## Essential Questions

How are properties and equations used to group numbers?

## Instructional Strategies \& Learning Activities

- Pacing Guide Suggested Pacing

Instruction
Review/Assessment
Total*

11 days
2 days
13 days

- *Includes additional time for remediation and differentiation.
- 


## Lesson Objective

Lesson 1 pp . 429-434 Use different strategies, Multiply by 6 including doubling a known fact, to multiply by 6 .

| Lesson | Objective |  <br> Manipulatives | Vocabulary | Standard |
| :--- | :--- | :--- | :--- | :--- |
| Lesson 1 pp. 429-434 | Use different strategies, | • counters | All of the | 3.OA.1, 3.OA.3, |
| Multiply by 6 | including doubling a known | • crayons, | vocabulary in this | 3.OA.4, 3.OA.5, |
|  | fact, to multiply by 6. | markers, or <br> colored pencils | chapter are review <br> words. |  |

Lesson 2 pp. 435-440 Use different strategies, such as • grid paper

| Multiply by 7 | properties, arrays, and <br> decomposing factors, to <br> multiply by 7. | • crayons, <br> markers, or |
| :--- | :--- | :--- |
|  | colored pencils |  |

Lesson 3 pp. 441-446 Use different strategies, • counters Divide by 6 and 7 including arrays and repeated subtraction, to divide by 6 and 7.

## Check My Progress

Lesson 4 pp. 449-454 Use different strategies, such as • counters
Multiply by 8 arrays, drawings, and known facts, to multiply by 8 .

Lesson 5 pp . 455-460 Use different strategies, such as • chart paper Multiply by 9 properties, known facts, or patterns, to multiply by 9 .

Lesson 6 pp. 461-466 Use different strategies, such as • counters
Divide by 8 and 9 equal groups, repeated subtraction, and related multiplication facts, to divide by 8 and 9 .

## Check My Progress

Lesson 7 pp. 469-474 Make an organized list to solve
Problem Solving problems.
Investigation: Make an Organized List

Lesson 8 pp . 475-480 Use different strategies, such as • grid paper Multiply by 11 and patterns, models, and arrays, to $\cdot$ crayons, 12 multiply by 11 and 12 . markers, or colored pencils

Lesson 9 pp. 481-486 Use different strategies, such as • counters
Divide by 11 and 12 equal groups, repeated

- egg cartons subtraction, and related facts, to divide by 11 and 12 .
3.OA.1, 3.OA.3,
3.OA.4, 3.OA.5,
3.OA.7, 3.OA. 9

Major Cluster
MP 3, 4, 6, 8
3.OA.2, 3.OA.3, 3.OA.4, 3.OA.6, 3.OA. 7

Major Cluster
MP 2, 3, 4, 5, 6
3.OA.1, 3.OA.3, 3.OA.4, 3.OA.5, 3.OA.7, 3.OA. 9

Major Cluster
MP 1, 2, 3, 4, 6
3.OA.1, 3.OA.3,
3.OA.4, 3.OA.5,
3.OA.7, 3.OA. 9

Major Cluster
MP 1, 3, 4, 7
3.OA.2, 3.OA.3, 3.OA.4, 3.OA. 6

Major Cluster
MP 1, 2, 4, 5, 6
3.OA. 3

Major Cluster
MP 1, 3, 4, 5, 7, 8
3.OA. 1

Major Cluster
MP 1, 2, 3, 5, 7
3.OA.2, 3.OA.4,
3.OA. 6

## Fluency Practice <br> My Review and Reflect

## 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. |  |$\quad$| Identify how you might like to earn an income. |
| :--- |
| WRK.9.2.5.CAP. 2 |$\quad$| Identify qualifications needed to pursue traditional and non-traditional careers and |
| :--- |
| occupations. |

## 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.3-5.8.1.5.DA. 3 | Organize and present collected data visually to communicate insights gained from <br> different views of the data. |
| CS.3-5.DA | Data \& Analysis |
|  | Data can be organized, displayed, and presented to highlight relationships. <br> Individuals can select, organize, and transform data into different visual representations <br> and communicate insights gained from the data. |

## Interdisciplinary Connections

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

LA.RI.3.7

LA.RI.3.10

Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 3 topic or subject area.

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).

By the end of the year, read and comprehend literary nonfiction at grade level textcomplexity or above, with scaffolding as needed.

## Differentiation

Each My Math unit throughout the series offers "approaching level", "on level" and "Beyond level" differentiated instructional hands-on choices, as well as ELL differentiated support. Please refer to the teacher edition for the activities.

## Modifications \& Accommodations

IEP and 504 accommodations will be followed.

## Benchmark Assessments

Aimsweb Assessment, Chapter Pretests, Dreambox

## Formative Assessments

Teacher observation
Student conferences
Discussion
Activities
games
homework

## Instructional Materials

See materials listed above

## Standards

| MA.3.OA.A. 1 | Interpret products of whole numbers, e.g., interpret $5 \times 7$ as the total number of objects in <br> 5 groups of 7 objects each. |
| :--- | :--- |
| MA.3.OA.A. 2 | Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number <br> of objects in each share when 56 objects are partitioned equally into 8 shares, or as a <br> number of shares when 56 objects are partitioned into equal shares of 8 objects each. |
| MA.3.OA.A.3 | Use multiplication and division within 100 to solve word problems in situations involving <br> equal groups, arrays, and measurement quantities, e.g., by using drawings and equations <br> with a symbol for the unknown number to represent the problem. |
| MA.3.OA.A.4 | Determine the unknown whole number in a multiplication or division equation relating <br> three whole numbers. |
| Apply properties of operations as strategies to multiply and divide. |  |

