

MULTIPLICATION LESSON PLANS

MULTIPLICATION: ARRAYS

Lesson plan DAY 2

Objective	Vocabulary	Materials
Students will identify and represent multiplication fact using arrays.	<ul style="list-style-type: none"> Array Product Factor Grid 	<ul style="list-style-type: none"> Unit square grid paper Graph paper Grids Sticks
Concrete Students use manipulatives to build or create a physical model of the math problem.	Representational Students draw a picture or representation model of the math problem.	Abstract Students use an algorithm or only numbers to solve.



Grandma made cookies. She placed a 4x6 array with green cookies.
How many cookies did she make?



Grandma made 24 cookies
 $4 \times 6 = 24$

WARM-UP
10 minutes

WHOLE GROUP
30 minutes

POPcorn facts - Explain to students that they will be counting multiples of 2 about while "popping" and holding their breath the a corn kernel. When a multiple of 2 is hit, student will POP up as they say the multiple of 2, and then return to a small kernel. (Example: 2, 4, 6, 8, 10POP, 12, 14, 16, 18, 20POP, 22 etc.)

- Students count multiples of 2 - POP with multiples of 100
- Students count multiples of 5 - POP with multiples of 50

Arrays, the multiplication symbol "x" and the student's what can be said instead of "times" Review items of the "Grids of 5" they learned in the last lesson. Draw a model of 3 rows of 4 and ask them what they notice. Explain that the multiplication symbol can also mean "times" or "times times" the original row, row, and column.

Give each student a piece of the multiplication array graphing paper and make instructions. Have students build the array for each multiplication fact after saying "times" or "instead of times" (3 x 4 "times of 4")

After building the array with counters, have students color the grid to show the same model and write the product. Then, students can turn the paper sideways to see the related fact, using the row they see and counting the items in each row. A hand copy is included for teachers to abbreviate lesson.

Give each student a copy of the "Grids of 5" worksheet. Students will fill and glue to match the multiplication fact to the correct array. Then, students will find the product and fill in the blank.

Grade 3 Multiplication Lesson Plans

F Rizvi



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Common Core Mathematics in a PLC at Work®, Grades 3-5 Timothy D. Kanold, 2012-04-12 This teacher guide illustrates how to sustain successful implementation of the Common Core State Standards for mathematics grades 3-5. Discover what students should learn and how they should learn it at each grade level. Comprehensive research-affirmed analysis tools and strategies will help you and your collaborative team develop and assess student demonstrations of deep conceptual understanding and procedural fluency.

Better Lesson Plans, Better Lessons Ben Curran, 2015-09-25 In today's high-stakes world, ready-made lessons and teacher's guides are no longer enough to guarantee achievement. The best way to help students succeed is through deliberate and careful lesson planning focused on the end result of increasing student achievement. Whether you are a new teacher or an experienced educator, this book will help you get started by providing a practical step-by-step guide to designing lessons that will lead to student mastery of any objective. You'll learn the essential components of lessons that are Common Core aligned and grounded in best practices. Topics include Tailoring your lessons to meet your state standards while ensuring high student achievement; Writing a strong objective to stay focused on the goal of a lesson; Creating an end-of-lesson assessment to gauge the lesson's success; Constructing a lesson plan that combines direct instruction, guided practice, and independent practice. Along the way, you'll find plenty of helpful examples from math and English Language Arts. You'll also find end-of-chapter FAQs and activities to try to help you make these concepts a reality for your own classroom. Many of the tools from the book are also available as free downloads from our website www.routledge.com/books/details/9781138838871.

Resources in Education, 1980-10 *Learning Mathematics in Elementary and Middle Schools* W. George Cathcart, 2006 Brief Contents Chapter 1 Teaching Mathematics Influences and Directives Chapter 2 Learning and Teaching Mathematics Chapter 3 Developing Mathematical Thinking and Problem Solving Ability Chapter 4 Assessing Mathematics Understanding Chapter 5 Developing Number Concepts Chapter 6 Developing Understanding of Numeration Chapter 7

How Chinese Learn Mathematics Lianghuo Fan, 2004 The book has been written by an international group of very active researchers and scholars who have a passion for the study of Chinese mathematics education. It aims to provide readers with a comprehensive and updated picture of the teaching and learning of mathematics involving Chinese students from various perspectives, including the ways in which Chinese students learn mathematics in classrooms, schools, and homes; the influence of the cultural and social environment on Chinese students' mathematics learning; and the strengths and weaknesses of the ways in which Chinese learn mathematics.

The Classroom Teacher Milo Burdette Hillegas, Thomas Henry Briggs, 1929 **Annual Reports of the Officers of State of the State of Indiana** Indiana, 1906 *Annual Reports of the Officers of State of the State of Indiana, Administrative Officers, Trustees and Superintendents of the Several Benevolent and Reformatory Institutions ...* Indiana, 1904 *Annual Reports of ...*, Submitted to the General Assembly of the State of Indiana Indiana, 1911 **Annual Report for the Fiscal Year Ending ...**

to the Governor Indiana State School for the Deaf,1919 Documentary Journal of the General Assembly of the State Indiana Indiana,1904 **Annual Report of the Trustees and Superintendent for the Fiscal Year Ending ... to the Governor** Indiana Institution for the Education of the Deaf and Dumb,1906 **Annual Report** Indiana. School for the Deaf, Indianapolis,1904 *Everyday Mathematics 2 Grade Teacher's Lesson Guide Volume 1* Max Bell,2004 **Popular Educator** ,1923 *Annual Report of the Board of Trustees and Officers of the Ohio Soldiers' and Sailors' Orphans' Home, Located at Xenia, Greene County, to the Governor of the State of Ohio, for the Year ..* Ohio Soldiers' and Sailors' Orphans' Home (Xenia),1885 American Education ,1927 **A First Book in Education** Louis E. Heinmiller,1925 Report of the Commissioner of Education USA. Bureau of Education,1889 *Homeschooler's Guide to Free Teaching AIDS* Educators Progress Service,2004-04

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Table of Contents Grade 3 Multiplication Lesson Plans

1. Understanding the eBook Grade 3 Multiplication Lesson Plans
 - The Rise of Digital Reading Grade 3 Multiplication Lesson Plans
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 3 Multiplication Lesson Plans
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade 3 Multiplication Lesson Plans
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 3 Multiplication Lesson Plans
 - Personalized Recommendations
 - Grade 3 Multiplication Lesson Plans User Reviews and Ratings
 - Grade 3 Multiplication Lesson Plans and Bestseller Lists

5. Accessing Grade 3 Multiplication Lesson Plans Free and Paid eBooks
 - Grade 3 Multiplication Lesson Plans Public Domain eBooks
 - Grade 3 Multiplication Lesson Plans eBook Subscription Services
 - Grade 3 Multiplication Lesson Plans Budget-Friendly Options
6. Navigating Grade 3 Multiplication Lesson Plans eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 3 Multiplication Lesson Plans Compatibility with Devices
 - Grade 3 Multiplication Lesson Plans Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 3 Multiplication Lesson Plans
 - Highlighting and Note-Taking Grade 3 Multiplication Lesson Plans
 - Interactive Elements Grade 3 Multiplication Lesson Plans
8. Staying Engaged with Grade 3 Multiplication Lesson Plans
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 3 Multiplication Lesson Plans
9. Balancing eBooks and Physical Books Grade 3 Multiplication Lesson Plans
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 3 Multiplication Lesson Plans
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 3 Multiplication Lesson Plans
 - Setting Reading Goals Grade 3 Multiplication Lesson Plans
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 3 Multiplication Lesson Plans
 - Fact-Checking eBook Content of Grade 3 Multiplication Lesson Plans
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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