

Name: Juwahir Rashid Ali Alnaqbi- H00255210		Grade Level: Grade 3 Students "26"	CCSS Math Strand: Unit 1 – operations – chapter 4 lesson 3 "represent the multiplication"
CCSS Standards: According to CCSS standard, for operation lessons students generally will grasp the concept of <ul style="list-style-type: none"> • multiplication by working with equal groups of objects to gain foundations for multiplication. • Understand properties of multiplication 			
Main Lesson Aims (Concepts, Procedures, & Processes): Learning objectives: <ul style="list-style-type: none"> • Students will recognize the multiplication process by link it with arrays. • Students will identify the commutative property of multiplication. 			
- Materials: PowerPoint, worksheets, paper clips, cubes			
Teacher books	McGraw Hill, CCSS, Math Book: for grade 3 students, Volume 1. (Teacher edition)		
student book(s)	McGraw Hill, CCSS, Math Book: for grade 3 learners, Volume 1. (Student edition)		
worksheets/ papers	For chapter 4, lesson one, every description paper, worksheet and activities is attached with the lesson plan.		
Teacher materials	<ul style="list-style-type: none"> - Classroom rules on the papers - White board - Pp, maryoma character, 		
student materials/ manipulatives	<ul style="list-style-type: none"> - Worksheets. - Cubes - Paper clips, clay.. papers 		
Technology	1- PowerPoint while explaining the lesson. 2- Arrays game http://www.ictgames.com/arrayDisplay.html		
other	None		
Key vocabulary with definitions (and pictures if appropriate):			
word	glossary definition	image	
number sentence	A sentence includes numbers and math signs such as multiplication sign and equal sign		
Multiplication sign	The symbol × or the symbol · used between two numbers to show that they should be multiplied together		
Multiplication product	The basic idea of multiplication is repeated addition. The answer when two or more numbers are multiplied together.	For example: $5 \times 3 = 5 + 5 + 5 = 15$	
Array	Items (such as objects, numbers, etc.) arranged in rows and columns.		

Multiplication As Arrays Lesson Plan

**Stephen S. Willoughby, Carl
Bereiter, Peter Hilton, Joseph H.
Rubinstein, WrightGroup/McGraw-Hill
Staff**

Multiplication As Arrays Lesson Plan:

Primary Mathematics: Teaching Theory and Practice Claire Mooney, Mary Briggs, Alice Hansen, Judith McCullouch, Mike Fletcher, 2018-02-24 An extensive knowledge of the primary Mathematics curriculum is not enough for trainee teachers they need to know how to teach Maths in the primary classroom This is the essential teaching theory and practice text for primary Mathematics that takes a focused look at the practical aspects of teaching It covers the important skills of classroom management planning monitoring and assessment and relates these specifically to primary Maths with new material on assessment without levels And to support students even further with the very latest strategies in classroom practice this 8th edition now includes online resources Practical lesson ideas for the classroom The Primary National Curriculum for Mathematics in Key Stages one and two Tips for planning primary Mathematics Useful weblinks for primary Mathematics teaching

Helping Children Learn Mathematics Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, 2014-10-20 The 11th Edition of Helping Children Learn Mathematics is designed to help those who are or will be teachers of mathematics in elementary schools help children develop understanding and proficiency with mathematics so they can solve problems This text is built around three main themes helping children make sense of mathematics incorporating practical experiences and using research to guide teaching It also integrates connections and implications from the Common Core Standards Mathematics CCSS M

Instructional Planning for Effective Teaching James H. Stronge, Xianxuan Xu, 2015-12-02 Cultivate meaningful learning schoolwide Taking a practical approach to instructional planning the authors outline research based planning tools and illustrate how teachers leaders and administrators can use these tools in everyday practice Discover powerful strategies and guidelines for developing quality lessons setting learning objectives planning differentiated instruction and designing technology integrated learning to effectively teach and challenge every student

Teaching the Child Mathematics Clarence W. Schminke, Norbert Maertens, William Arnold, William Ramon Arnold, 1973

Teaching Mathematics in Elementary and Middle School Joseph G. R. Martinez, Nancy Conrad Martinez, 2007 With an emphasis on inquiry and process Teaching Mathematics in Elementary and Middle School embraces active mathematics instruction and the development of mathematical thinking through problem solving The text challenges future teachers to prepare their K 8 students for a world that requires a higher level of mathematical literacy and enables them to compete in a global society Teachers will develop their own mathematical abilities allowing them to help students discover a rich combination of thinking processes and problem solving strategies raising the learning expectations for all Unique text features TIE Thought Investigation and Exploration features ask pre service teachers to develop their own thinking and learning abilities preparing them to better challenge their students Mathematics in the Real World Idea Files and Teacher Profiles model best practices and supply readers with concrete teaching tools and strategies Mathematical Thinking Mathematical Games and Mathematics and Technology features detail activities to engage and develop students

mathematical thinking Accompanying student artifacts illustrate the progression of students conceptual understanding CD logo replaces bullet Math Activities CD ROM provides an outstanding text component containing more than 100 activities that use a three step process explore invent discover to foster the development of mathematical thinking through guided inquiry Aligned with the NCTM standards each activity is integrated within the text and designed to help develop students conceptual understanding of mathematics Mathematics in Literature offers thoroughly developed ideas for using children s literature to create meaningful contexts for mathematics learning An extensive bibliography that can be used for this purpose appears on the CD Rom I think the text is an excellent resource for elementary and middle school methods courses In particular I like how the textbook handles the bigger issues such as geometric reasoning rather than just geometry I also like the excellent foundation in educational research that the textbook provides as well as some very careful attention and consistent referencing to the NCTM standards and principles The incorporation of classroom vignettes teacher illustrations and samples of student work also all add to the excellent grounding of the text in real world classroom work Dr Neal Grandgenett University of Nebraska at Omaha Math Explorations and Applications Stephen S. Willoughby, Carl Bereiter, Peter Hilton, Joseph H. Rubinstein, Wright Group/McGraw-Hill Staff, 2002-07 **Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 5** University of Chicago. School Mathematics Project, 2007 The Teacher s Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips and multilevel differentiation strategies for all learners This English Spanish Edition provides dual language support **Elementary Mathematical Methods** Donald D. Paige, Diane Thiessen, Margaret Wild, 1982 Illustration methods of teaching mathematical concepts *Learning to Teach Mathematics* Randall J. Souviney, 1989 *Elementary School Mathematics Series*, 1969 **Elementary Math Methods** Donald D. Paige, 1986

Today's Mathematics, Activities and Instructional Ideas James W. Heddens, William R. Speer, 2000-08-31 This classic allows readers to easily build a valuable set of ideas and reference materials for actual classroom use Designed to aid the teacher in understanding mathematical concepts and relationships the authors reflect recent recommendations from the National Council of Teachers of Mathematics Standards 2000 *Everyday Mathematics* Jean F. Bell, University of Chicago. School Mathematics Project, 2007 The core of the Everyday Mathematics program for Grades 1-6 the Teacher s Lesson Guide provides teachers with easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips as well as multilevel differentiation strategies to support all learners

Helping Children Learn Mathematics Robert E. Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, 2008-12-15 The ninth edition of this best selling elementary math methods textbook continues the rich history of this book with a dash of new breath and a new contemporary design It has been updated to reflect current recommendations readings and practices while maintaining the characteristics and features that have made it a popular choice of instructors This new edition remains

an invaluable text for students who are being introduced to teaching elementary mathematics In addition its depth also makes it appropriate for teachers to use as they continue to learn about teaching mathematics Publsiher s website

Teaching Mathematics in the Modern Elementary School Calhoun Crofford Collier,Harold H. Lerch,1969

Mathematics on the Internet Jerry A. Ameis,2002 This book helps teachers in elementary middle and high schools to become better acquainted with some of the resource materials and information available on the Internet for teaching mathematics Chapter 1 is intended to familiarize teachers with the Internet Chapter 2 provides substantial guidance on the learning of mathematics through a discussion of teaching scenarios that involve the Internet Chapter 3 lists a wealth of websites containing resources consistent with the National Council of Teachers of Mathematics NCTM Principles and Standards for School Mathematics Chapter 4 is devoted to websites that concern professional development needs of teachers Mathematics teachers K 12 and other general inservice teachers *Houghton Mifflin Math Central* ,1999 **Towards a**

Good Beginning Grace M. Burton,1985

Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 4

Edm,University of Chicago. School Mathematics Project,2008 The Teacher s Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips and multilevel differentiation strategies for all learners This English Spanish Edition provides dual language support

Harcourt Math ,2003-03

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