

GRADE 7 MATH LEARNING GUIDE

Lesson 15: Measurement and Measuring Length

Time: 2.5 hours

Prerequisite Concepts: Real Numbers and Operations

About the Lesson:

This is a lesson on the English and Metric System of Measurement and using these systems to measure length. Since these systems are widely used in our community, a good grasp of this concept will help you be more accurate in dealing with concepts involving length such as distance, perimeter and area.

Objective

At the end of the lesson, you should be able to:

1. Describe what it means to measure;
2. Describe the development of measurement from the primitive to the present international system of unit;
3. Estimate or approximate length;
4. Use appropriate instruments to measure length;
5. Convert length measurement from one unit to another, including the English system;
6. Solve problems involving length, perimeter and area.

Lesson Proper

A.

I. Activity:

Instructions: Determine the dimension of the following using only parts of your arms. Record your results in the table below. Choose a classmate and compare your results.

	SHEET OF INTERMEDIATE PAPER		TEACHER'S TABLE		CLASSROOM	
	Length	Width	Length	Width	Length	Width
Arm part used*						
Measurement						
Comparison to: (classmate's name)						

* For the arm part, please use any of the following only: the palm, the handspan and the forearm length

Important Terms to Remember:

>palm – the width of one's hand excluding the thumb

> handspan – the distance from the tip of the thumb to the tip of the little finger of one's hand with fingers spread apart.

> forearm length – the length of one's forearm: the distance from the elbow to the tip of the middle finger.

Answer the following questions:

1. What was your reason for choosing which arm part to use? Why?
2. Did you experience any difficulty when you were doing the actual measuring?

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Resources in Education, 2001 **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 **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 **Everyday Mathematics 2 Grade Teacher's Lesson Guide Volume 1** Max Bell, 2004 **ENC Focus**, 2002 *Everyday Mathematics* Max Bell, 2004 Contains easy to follow three part daily lesson plans This assists teachers in focusing on lesson objectives providing ongoing practice for all students and addressing individual student needs for a variety of populations A unit organizer provides learning goals planning and assessment support content highlights a materials chart suggestions for problem solving cross curricular links and options for individualizing Each guide is grade level specific **Video Workshop Student Learning Guide with CD-ROM for Berk, Child Development, Sixth Edition** Sara Harris, 2004 **Mathematics Teacher Resource Handbook**, 1993 **Reader's Guide to Periodical Literature Supplement**, 1914 These vols contain the same material as the early vols of Social sciences humanities index **Steck-Vaughn Study Skills: Teacher's guide**, 1994 **Everyday Mathematics 4 Grade Teacher's Lesson Guide Volume 2** Max Bell, 2004 Contains easy to follow three part daily lesson plans This assists teachers in focusing on lesson objectives providing ongoing practice for all students and addressing individual student needs for a variety of populations A unit organizer provides learning goals planning and assessment support content highlights a materials chart suggestions for problem solving cross curricular links and options for individualizing Each guide is grade level specific **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 Elementary School Mathematics John A. Van de Walle, 1994 *Elementary School Mathematics Teaching Developmentally Second Edition* provides detailed comprehensive coverage of the teaching of mathematics in grades K-8 Firmly grounded in the NCTM Standards the text develops a constructivist developmental approach to learning mathematics that focuses on the nature of mathematical concepts and the manner in which children construct mathematical ideas It aims to help teachers reconceptualize mathematics as a problem solving endeavor not as a mastery of rules and procedures An accessible synthesis of viewpoints and current research this highly praised text includes

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Books In Print 2004-2005 Ed Bowker Staff,Staff Bowker, Ed,2004 **Developing Math Learning Skills** Susan C. Brown,1989 **El-Hi Textbooks & Serials in Print, 2003** ,2003 **Resources in Education** ,1997

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