

2011-2012 WHRO VideoClassroom Preview

Series Title:	Math In Our Lives
Curriculum Area:	Math
Grades:	preK-2; 3-5
# of Programs/Length:	9/10:00 minute programs

"Math In Our Lives" is an innovative nine-part series using practical examples and realistic models to provide students with an accessible context for mathematical concepts. Addressing the specific curricula and concepts of different levels, the series is divided into two sections by age group: pre-kindergarten to second grade (four programs) and third to fifth grades (five programs).

Pre K-2

1.) Lines And Shapes

"Lines and Shapes" introduces the concepts of line and shape in both the natural and man-made worlds. Viewers are introduced to simple shapes and goes beyond to also explore how shapes are used in nature and in the industrial world.

2.) Money

"Money" is an introduction to what is money and what it is used for. Program teaches young people about the concept of money – and how it is made and used. Viewers learn to identify the names and values of different coins and bills. Real life scenarios are used to illustrate concepts of relative value.

3.) Numbers

"Numbers" is an exploration of how numbers are used in our lives to count, identify, and name. It will show how numbers are used as representative symbols. This program will show the different and creative ways we use numbers to convey information in our everyday lives such as telephones, clocks, and addresses.

4.) More And Less

"More and Less" presents the general concepts of more and less – numerically and quantitatively. Viewer is introduced to the symbols, $>$ and $=$, and will learn how to compare and order objects according to size, mass, or quantity. Uses familiar objects from the world of architecture and transportation, but also objects from nature. Shows techniques viewers can use to know when one thing is more or less than another.

Grades 3-5

1.) Probability

"Probability" presents a thorough introduction to the concepts of probability and chance. Viewers will see simple probability illustrated in a variety of scenarios such as a simple game to a more complex classroom science experiment. Program further teaches viewer to compare the chances of different things happening in a particular situation, and will learn how this information can be used to apply logical reasoning to the outcomes.

2.) Measuring – Standard

"Measuring - Standard" is an exploration of measurement which includes a discussion of the standard units used to measure length, weight and volume. This discussion also will look at smaller and larger units of measure, and an explanation of measurement conversions (inches to feet, feet to yards, etc.). Viewers will get a sense of relative size with concrete examples on scale and how specific measuring tools (rulers, scales, etc.) are used.

3.) Measuring – Metric

"Measuring - Metric" focuses on the metric system. Viewers will learn about the metric units used to measure length, volume and mass, and will learn to make metric conversions. Interesting examples from real-life will give viewers a sense of metric size – from very small to very large. Also included will be a discussion of where (geographically) and why the metric system is used in place of the standard system of measurement.

4.) Geometric Forms

"Geometric Forms" is a more comprehensive look at geometry, with attention paid to increasingly complex definitions and concepts. Primary focus of the program is to explain to viewers how geometry is used everyday. Examples are shown showing, which shapes are favored by nature for specific purposes and which shapes are strong enough to support buildings or bridges. Shows how artists and architects use lines and shapes to create depth and perspective in their drawings.

5.) Currency (3:00 Preview Segment)

“Currency” reveals how money is made and how it works. Included is a discussion of different world currencies, money’s relative value and how that changes over time, and the concept of simple interest. Viewers will also experience familiar situations set to illustrate ideas of value and decision-making around money.