

# Shop Math Course Syllabus

Topic	Description
<b>How to “Read” and Use a Ruler</b>	“Reading” a whole-inch measurement when the right edge of an object lies <i>on</i> a line and its left edge is aligned or not aligned (“broken ruler” problem) with the zero-line of the ruler
	Reducing ruler fractions to lowest terms
	“Reading” a fractional-inch measurement when the right edge of an object lies <i>on</i> a line and its left edge is aligned with the zero-line of the ruler
	“Reading” a fractional-inch measurement when the right edge of an object lies <i>between</i> two lines and its left edge is aligned with the zero-line of the ruler
	“Reading” a fractional-inch measurement when the right edge of an object lies either <i>on</i> a line or <i>between</i> two lines and its left edge is aligned or not aligned (“broken ruler” problem) with the zero-line of the ruler
	Connecting fractions to the lines between the whole inch numbers of a ruler
<b>Review of Ruler Fractions &amp; Mixed Numbers</b>	“Reading” a fractional-inch measurement in feet and inches when the left edge of an object is aligned with the zero-line of the ruler
	Measuring Exercises
	Defining, identifying & writing, changing fractions to improper fractions & <i>vice versa</i> , reducing fractions to lowest terms, creating equivalent fractions
<b>How to “Read” and Use an Architect’s Scale</b>	Addition, Subtraction, Multiplication, and Division
	“Reading” & Drafting Feet, Inch, Feet & Inch scales
	Using an Architect’s Scale with Blueprints
	Calculating Scale Factor
	Changing Scale Factors