





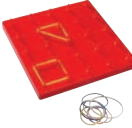







Glossary of Manipulatives

	Base Ten Blocks Base Ten Blocks include cubes representing 1,000, flats representing 100, rods representing 10, and units representing 1. Blocks can be used to teach various number and place-value concepts, such as the use of regrouping in addition and subtraction. Each unit measures 1 cm ³ , making blocks ideal for measuring area and volume.
	Centimeter Cubes These plastic cubes come in 10 different colors. They can be used to teach counting, patterning, and spatial reasoning. They also are useful in measurement activities, such as those involving length, area, volume, and (because each cube weighs 1 gram) weight.
	Color Tiles These 1" square tiles come in four different colors: red, blue, yellow, and green. They can be used to explore many mathematical concepts, including geometry, patterns, and number sense.
	Deluxe Rainbow Fraction® Circles This set consists of nine color-coded, $3\frac{1}{2}$ " plastic circles representing a whole, halves, thirds, fourths, fifths, sixths, eighths, tenths, and twelfths. The circles enable students to explore fractions, fractional equivalences, the fractional components of circle graphs, and more.
	Fraction Number Line These color-coded, double-sided number lines can be used with Fraction Tower Cubes to show both 2-D and 3-D representations of equivalent fractions.
	Fraction Tower® Cubes This set of nine 12-cm towers, each composed of a different number of equal-size interlocking pieces, is used to model fractions and fraction relationships. The set includes color-coded towers for modeling halves, thirds, fourths, fifths, sixths, eighths, tenths, twelfths, and a whole.
	Geoboard The double-sided Geoboard is 7.5" square and made of plastic. One side has a 5 × 5 peg grid. The other has a circle with a 12-peg circumference. Students stretch rubber bands from peg to peg to form geometric shapes. Geoboard can be used to study symmetry, congruency, area, and perimeter.
	Pattern Blocks Blocks include six shapes in six different colors: yellow hexagon, red trapezoid, orange square, green triangle, blue parallelogram rhombus, and tan rhombus. The versatile blocks can be used to teach concepts from all strands of mathematics. Blocks illustrate algebraic concepts such as patterning and sorting. Students learn geometry and measurement concepts such as symmetry, transformations, and area. Blocks also can be used to show number concepts, such as counting and fractions.
	Three Bear Family® Counters Bear Counters come in four colors and three different sizes and weights—Baby Bear™ (small), Mama Bear™ (medium), and Papa Bear™ (large). Bear Counters can be used to teach abstract concepts involving number sense and operations by allowing students to act them out. Use Bear Counters to explore sorting and comparing sets, counting, estimating, addition and subtraction, patterning, and sequencing.

	<p>Time Interval Rods and Work Mats These easy-to-use, connectable rods of five different color-coded lengths represent five different intervals of time: 1 hour or 60 minutes, $\frac{1}{2}$ hour or 30 minutes, $\frac{1}{4}$ hour or 15 minutes, $\frac{1}{6}$ hour or 10 minutes, and $\frac{1}{12}$ hour or 5 minutes. The two-sided work mat helps students investigate elapsed time and relationships between units of time.</p>
	<p>Two-Color Counters These versatile counters are thicker than most other counters and easy for students to manipulate. They can be used to teach number and operations concepts, such as patterning, addition and subtraction, and multiplication and division. Counters also can be used to introduce students to basic ideas of probability.</p>
	<p>Write-On/Wipe-Off Student Clock This 4.5-inch-square clock is laminated so that students can write the digital time below the moveable hands of the clock face. Clock can be reused over and over again to give students plenty of hands-on practice measuring time. Clock also helps students practice addition, subtraction, and problem solving.</p>

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