Mathematics

Brunswick School Department Grade 2

Geometry and Measurement

	Shapes can be used to describe the physical world.
Essential	 Different tools are used to measure different things.
Understandings	 Standard units provide common language for communicating
_	measurement.
	What is a polygon?
	How can one use attributes to recognize and classify polygons?
	What are the tools for measurement and how are they used?
	What are congruent figures?
	How can one mark the passage of time?
Essential	How can one measure length?
Questions	What is area?
	How can one find surface area?
	What is perimeter?
	How can one find perimeter?
	What is the value of a half dollar and dollar?
	 What are the equivalent values for nickels, dimes, quarters, and
	dollars?
	How can one measure temperature?
	What is capacity?
	How does one measure capacity?
	 A polygon is a closed figure having all straight sides.
	 One can use attributes to determine how polygons are alike and different.
Essential	 Congruent figures have the same shape and the same size.
Knowledge	 Length is measured with standard units (i.e., rulers and measuring
_	tapes) and nonstandard units.
	 Area is a two-dimensional space measured in square units.
	 Perimeter is the measure of lines forming a polygon.
	 Capacity is the amount of available space within a three-
	dimensional shape.
	■ <u>Terms</u> :
	 polygon, solution, decompose, construct, area, perimeter,
Vocabulary	half-dollar, dollar, change, capacity, quantity, height, length,
	width, similar, point, vertices, edge, face, side, analog,
	digital, scale, congruent, prism, weight, interval

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Recognize, name, and create various polygons. (A) Classify two dimensional geometric figures by focusing on their properties. (A) Use manipulatives to create shapes using geometric figures to compose and decompose other shapes. (A) Identify cubes, cones, cylinders, spheres, and prisms. (A) Identify congruent figures. (I) Use the measurement of time: there are 24 hours in a day. (R, A) Use an analog clock and digital clock to tell time to the nearest five **Essential** minutes. (I, R, A) Write time in digital form to the nearest five minutes. (I, R, A) Skills Measure length of objects to the nearest one-half inch or centimeter. (I, R, A) Estimate the length of objects to the nearest inch and/or centimeter. (I, R, A) Use manipulatives to measure the area of polygons. (I, R) Use manipulatives to measure the perimeter of polygons. (I, R, A) Name and give the value for half dollar and dollar. (I, R, A) Find equivalent values for nickels, dimes, quarters, and dollars. (I. R, A) Count and write value of a set of coins to \$1.99. (I, R, A) Determine the amount of change up to a dollar. (A) Estimate and measure temperature by using a thermometer. (A) Use manipulatives to measure the capacity of three dimensional

objects. (I, R)

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	C. Geometry
	Geometric Figures
	C1.Students recognize, classify, and create geometric figures in
	two and three dimensions.
	a. Identify shapes in the physical environment.
	b. Classify figures as circles, triangles, and quadrilaterals by
	focusing on their properties.
	c. Create shapes by using objects to combine and decompose
	other shapes.
	Geometric Measurement
	C2.Students understand how to measure length and capacity and
Related	use appropriate units.
	' '
Maine Learning Results	Measure length and capacity by direct and indirect
Results	comparison.
	b. Measure length and capacity by direct and indirect
	comparison.
	c. Measure the length of objects to whole inches and
	centimeters.
	B. Data
	Measurement and Approximation
	B1.Students understand and use units of time, temperature, and
	money.
	a. Apply and use sequences of hours in a day, days in a week,
	and months in a year
	b. Tell time to the hour and half hour.
	 c. Identify and give the value of different coins.
	d. Find the total value of coins up to \$1.00.
	e. Read temperature on thermometers with scales marked
	with one degree intervals.