## Mathematics Unit 4: Geometry and Measurement

	■ Lines are the fundamental building blocks of polygons
Forential	Emos are the fundamental banding blooks of polygons.
Essential	<ul> <li>Different tools are used to measure different things.</li> </ul>
Understandings	<ul> <li>Standard units provide common language for communicating</li> </ul>
	measurement.
	How can one describe possible relationships between lines?
	<ul> <li>How can one use attributes to recognize and classify polygons and</li> </ul>
	three dimensional figures?
	What is an angle?
	What is symmetry?
	How can one find perimeter?
Essential	How can one find area?
Questions	How can one measure length?
	<ul> <li>How does one convert units within the standard measurement</li> </ul>
	system (i.e., inches to feet)?
	How does one measure capacity?
	How does one measure volume?
	How can one mark the passage of time?
	How can one measure temperature?
	How does one measure the weight of an object?
	<ul> <li>Lines can be intersecting, parallel, or perpendicular.</li> </ul>
	<ul> <li>Relationships between lines can be used to identify and classify</li> </ul>
	polygons.
Essential	<ul> <li>One can use attributes to determine how polygons and three-</li> </ul>
Knowledge	, , , ,
Kilowieage	dimensional figures are alike and different.  • An object is symmetrical when one half is the mirror image of the
	<ul> <li>An object is symmetrical when one half is the mirror image of the other half.</li> </ul>
	Volume is measured in cubic units.
	<ul> <li>Weight is the measure of the heaviness of an object.</li> </ul>
	Terms:
	o Fahrenheit, Celsius, weight, ounces (liquid and solid), pints,
Ve eelevdew-	cups, gallons, quarts, pounds, kilograms, grams, relative
Vocabulary	size, foot/feet, yards, volume, angle, perpendicular lines,
	intersecting lines, parallel lines, right angle, pentagon,
	metric, line symmetry, line of symmetry, grid, line segment,
	rays, convert/conversion, regular and irregular polygons,
	open and closed shapes

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	B. Data
	Measurement and Approximation
	B1.Students understand and use measurement of time and
	temperature.
	<ul> <li>a. Select appropriate tools and units for these measures.</li> </ul>
	b. Solve and justify problems with these measures.
	C. Geometry
	Geometric Figures
	C1.Students identify, describe, and classify familiar two-
	dimensional shapes.
Related	a. Describe and classify two-dimensional shapes according to
Maine Learning	the number of vertices and by number, length and shape of
Results	sides.
	b. Know how to put shapes together and take them apart to
	form other shapes.
	c. Identify edges, vertices, and right angles in two-dimensional
	shapes.
	d. Tell whether a given angle is greater or smaller than a right
	angle.
	C2.Students understand how to find the distance around a
	figure.
	a. Calculate and measure the distance around a figure whose
	perimeter is comprised of straight edges.
NECAP	NECAP
	Data, Probability, and Statistics/Geometry and Measurement
	M (G & M) 3-7
	Measures and uses units of measures appropriately and
	consistently, and makes conversions with systems when solving
	problems across the content standards. NECAP includes
	measurements of length (inches, feet, centimeters, meters),
	time (hours and minutes), temperature (degrees Celsius and
	degrees Fahrenheit), capacity (quart), mass (kilogram and
	gram), and weight (pound).
	Number and Operations
	M (N & O) 3-4
	Accurately solves problems involving addition and subtraction
	with and without regrouping; the concept of multiplication; and
	addition or subtraction of decimals (in the context of money).