

Mathematics
Unit 4: Geometry and Measurement

Essential Understandings	<ul style="list-style-type: none"> ▪ Shapes can be used to describe the physical world. ▪ Different tools are used to measure different things. ▪ Standard units provide common language for communicating measurement.
Essential Questions	<ul style="list-style-type: none"> ▪ What is a shape? ▪ What is a closed figure? ▪ What is an open figure? ▪ How can one use attributes to recognize and classify shapes? ▪ What are the tools for measurement and how are they used? ▪ How can one mark the passage of time? ▪ What is length? ▪ How can one measure length? ▪ What is the value of a penny, nickel, dime and quarter? ▪ What are the equivalent values for nickels, dimes, and quarters? ▪ How can one measure temperature?
Essential Knowledge	<ul style="list-style-type: none"> ▪ A shape is a closed figure. ▪ One can use attributes to determine how objects are alike and different. ▪ There are twelve months in a year. ▪ The months of the year are January, February, March, April, May, June, July, August, September, October, November, and December. ▪ Yesterday, today, and tomorrow are used to describe the days of the week. ▪ A clock measures time. ▪ There are 24 hours in a day. ▪ Length is measured with standard units (i.e., rulers and measuring tapes) and nonstandard units. ▪ A thermometer measures temperature.
Vocabulary	<ul style="list-style-type: none"> ▪ <u>Terms:</u> <ul style="list-style-type: none"> ○ trapezoid, hexagon, rhombus, properties, geometric figures, three-dimensional, cubes, cones, cylinders, open and closed figures, spheres, analog, digital, hour, half hour, penny, nickel, dimes, quarters, coin, clock, ordinal, equivalent, value, thermometer, degrees, quadrilateral, inch, centimeter, nearest, width

Mathematics
Unit 4: Geometry and Measurement

<p>Essential Skills</p>	<ul style="list-style-type: none">▪ Recognize, name, and create trapezoids, hexagons, and rhombuses. (I, R, A)▪ Classify two dimensional geometric figures by focusing on their properties. (I, R)▪ Use manipulatives to create shapes using geometric figures to compose and decompose other shapes. (R)▪ Identify cubes, cones, cylinders, and spheres. (I, R)▪ Recognize the differences between open and closed figures. (I, R, A)▪ Identify and use the terms yesterday, today, and tomorrow. (R, A)▪ Name the months of the year in order. (R, A)▪ Use the measurement of time: there are 24 hours in a day. (I, R, A)▪ Use an analog clock to tell time to the nearest hour and half hour. (I, R, A)▪ Write time in the digital form to the hour and half hour. (I, R, A)▪ Measure the length of objects to the nearest inch. (I, R, A)▪ Estimate the length of objects to the nearest inch. (I, R)▪ Name and give the value for pennies, nickels, dimes and quarters. (I, R, A)▪ Find equivalent values for nickels, dimes and quarters. (I, R)▪ Measure temperature by using a thermometer. (I, R)
--------------------------------	---

Mathematics
Unit 4: Geometry and Measurement

<p>Related Maine Learning Results</p>	<p>C. Geometry Geometric Figures C1.Students recognize, classify, and create geometric figures in two and three dimensions.</p> <ul style="list-style-type: none">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. <p>Geometric Measurement C2.Students understand how to measure length and capacity and use appropriate units.</p> <ul style="list-style-type: none">a. Measure length and capacity by direct and indirect comparison.c. Measure the length of objects to whole inches and centimeters. <p>B. Data Measurement and Approximation B1.Students understand and use units of time, temperature, and money.</p> <ul style="list-style-type: none">a. Apply and use sequences of hours in a day, days in a week, and months in a yearb. Tell time to the hour and half hour.c. Identify and give the value of different coins.e. Read temperature on thermometers with scales marked with one degree intervals.
--	--