Mathematics Transitional Mathematics Unit 3: Measurement

	What we measure influences how we measure.
	 Standard units of measure allow us to describe objects, interpret
	events and make comparisons in a way that can be universally
Fesential	understood
Ladorotondingo	Mathematiciana and acientista often use geometric change to ache
Understandings	 Mathematicians and scientists often use geometric snapes to solve
	problems.
	Geometry is considered to be an area of math with many real life
	applications.
	What are English units?
	What are the metric units?
	How do you convert English units of measure?
	 How do you convert matric units of measure?
	- Nhet is gree?
	• what types of units are used for area?
Essential	How do you calculate the area of triangles and rectangles?
Questions	What is the perimeter of a figure?
	What is the method for finding the perimeter of a given figure?
	What is volume?
	What types of units are used for volume?
	 How do you find the volume of a prism?
	 How do you and the volume of a roctangular solid?
	- Nubet in surface area?
	What is sufface area?
	• what type of units is used for surface area?
	How do you find the surface area of a rectangular solid?
	How do you find the surface area of a prism?
	What is the circumference of a circle?
	How do you find the circumference of a circle?
	 English units are the United States system of measure.
	The metric units of measure are meter, gram and liter.
	 Conversions between English units of measurement can be done
	by using proportions and cross multiplication
	• Conversions within the metric system can be completed by moving
	 Conversions within the metric system can be completed by moving desired paints
	decimal points.
Essential	Area of triangles and rectangles can be calculated.
Knowledge	Perimeter is computed by the determining the sum of the sides of a
	given figure.
	 Volume of rectangular solids and prisms is calculated utilizing a
	formula specific to the given figure.
	 Surface area of rectangular solids and prisms is calculated utilizing
	formulas specific to the given figure
	 Circumforance of a circle can be determined utilizing the formula C
	- Circumerence of a circle can be determined utilizing the formula C
	= pi x alameter.

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Vocabulary Essential	 <u>Terms</u>: English system, Metric system, centimeter, meter, kilometer, feet, inches, yards, miles, area, perimeter, volume, surface area, circumference, pi, rectangular solid, prism, triangle, circle, rectangle, convert, and unit of measure. Indentify English and metric units of measure. Find area of triangles and rectangles. Determine perimeter of a given figure. Calculate volume of rectangular solids and prisms
	 Determine surface area of rectangular solids and prisms. Find the circumference of a circle.
Related Maine Learning Results	 Mathematics B. Data Measurement and Approximation B1.Students understand the relationship between precision and accuracy. a. Express answers to a reasonable degree of precision in the context of a given problem. b. Represent an approximate measurement using appropriate numbers of significant figures. c. Know that most measurements are approximations and explain why it is useful to take the mean of repeated measurements. C. Geometry Geometric Measurement C4.Students find the surface area and volume of three-dimensional figures including cones and spheres. a. Find the volume and surface area of three-dimensional figures including cones and spheres.
Sample Lessons And Activities	 Students will learn how to calculate the area of both standard and combined areas through teacher demonstration and practice. Students will discuss filed/jobs that utilize the concepts of are.
Sample Classroom Assessment Methods	 Students will be given a floor plan diagram in order to determine the cost of carpeting specific rooms within the design plan.
Sample Resources	 <u>Publications:</u> <u>Saxon-Algebra 1/2</u>

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