Big Ide		
Grade/	ea: Mea	Big Idea: Measurement: Understand the concept of area and how it relates to perimeter and volume
Course	CCRSM Code	Content Standards
	5.MD.3	Recognize volume as an attribute of solid figures and understand concepts of volume measurement. a. A cube with side length 1 unit, called a "unit cube," is said to have "one cubic unit" of volume, and can be used to measure volume. b. A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic units.
	5.MD.4	Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.
	5.MD.5	Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.
ŝ		a. Find the volume of a right rectangular prism with whok-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-
		number products as volumes, e.g., to represent the associative property of multiplication. $h = A \text{ roburble formulae } V = 1 \times u \times h$ and $V = h \times h$ for rectangular retions to find volumes of not rectangular retions with whole number alow
		 Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real world problems.
4	4.MD.3	Apply the area and perimeter formulas for rectangles in real world and mathematical problems. For example, find the width of a rectangular room given the area of the flowing the brown become formula as a multiplication constituent with an unknown factor.
	3.MD.5	Recording area as an attribute of blane figures and understand concents of area measurement.
		a. A square with side length 1 unit, called "a unit square," is said to have "one square unit" of area, and can be used to measure area.
		b. A plane figure which can be covered without gaps or overlaps by n unit squares is said to have an area of n square units.
	3.MD.6	Measure areas by counting unit squares (square cm, square in, square in, square ft, and improvised units).
	3.MD.7	Relate area to the operations of multiplication and addition.
		a. Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side hooths
e		b. Multiply side lengths to find areas of rectangles with whole number side lengths in the context of solving real world and mathematical problems,
		and represent whole-num ber products as rectangular areas in mathematical reasoning.
		c. Use tiling to show in a concrete case that the area of a rectangle with whole-number side lengths a and $b + c$ is the sum of $a \times b$ and $a \times c$. Use area models to remease the distribution property in mathematical reasoning
		d. Recognize area as additive. Find areas of rectilinear figures by decomposing them into non-overlapping rectangles and adding the areas of the
		non-overlapping parts, applying this technique to solve real world problems.
	3.MD.8	Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.
2	2.G.2	Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.
-	1.G.2	Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right
		rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape. ⁴
		⁴ Students do not need to learn formal names such as "right rectangular prism."
×	K.G.6	Compose simple shapes to form larger shapes. For example, "Can you join these two triangles with full sides touching to make a rectangle?"
ΡK	21b	Explores and describes spatial relationships and shapes — Understands shapes