Math 6+: Measurement Perimeter, Area, Surface Area, and Volume

Area

Students	Learning Continuum Statements:
Students:	 RIT 161-170: Compares areas of shapes Determines the area of figures composed of whole unit squares
Students:	 RIT 171-180: Compares areas of shapes Determines the area of figures composed of whole unit squares Represents the area of rectangles composed of whole unit squares using multiplication expressions or equations
Students:	 RIT 181-190: Compares areas of shapes Determines the area of figures composed of whole unit squares Represents the area of rectangles composed of whole unit squares using multiplication expressions or equations
Students:	 RIT 191-200: Determines the area of figures composed of whole unit squares Determines the area of rectangles with whole-number sides, given the formula Estimates the area of figures using square units Represents the area of rectangles composed of whole unit squares using multiplication expressions or equations
Students:	 RIT 201-210: Determines side lengths given the area of rectangles Determines the area of figures composed of whole and partial unit squares Determines the area of rectangles with whole-number sides, formula not provided Determines the area of rectangles with whole-number sides, given the formula Identifies a unit square Recognizes situations which describe area Represents the area of rectangles composed of whole unit squares using repeated addition

Students:	RIT 211-220:
	 Applies the distributive property of multiplication to find the area of rectangles with whole-number sides Determines side lengths given the area of rectangles Determines the area of figures composed of whole and partial unit squares Determines the area of parallelograms, formula not provided Determines the area of rectangles with decimal sides, formula not provided Determines the area of rectangles with decimal sides, given the formula Determines the area of rectangles with fractional sides, formula not provided Determines the area of rectangles with whole-number sides, formula not provided Determines the area of rectangles with whole-number sides, given the formula Recognizes situations which describe area Solves problems involving areas of rectangles within a real-world or mathematical context Solves problems involving the area of figures composed of whole unit squares
Students:	RIT 221-230:
	 Applies the distributive property of multiplication to find the area of rectangles with whole-number sides Describes the effect on area when dimensions of a rectangle are changed Describes the effect on area when dimensions of a triangle are changed Determines side lengths given the area of rectangles Determines the area of parallelograms, formula not provided Determines the area of parallelograms, given the formula Determines the area of rectangles with decimal sides, formula not provided Determines the area of rectangles with fractional sides, formula not provided Determines the area of rectangles with whole-number sides, formula not provided Determines the area of rectangles with whole-number sides, given the formula Determines the area of rectangles with whole-number sides, given the formula Determines the area of regular hexagons, given the formula Determines the area of triangles, given the formula Determines the area of figures composed of polygons within a real-world or mathematical context Solves problems involving areas of rectangles within a real-world or mathematical context
Students:	 RIT 231-240: Applies the distributive property of multiplication to find the area of rectangles with whole-number sides Describes the effect on area when dimensions of a rectangle are changed Describes the effect on area when dimensions of a triangle are changed Determines the area of circles, given the formula Determines the area of figures composed of polygons Determines the area of parallelograms, formula not provided Determines the area of rectangles given the perimeter Determines the area of rectangles with decimal sides, formula not provided Determines the area of rectangles with fractional sides, formula not provided Determines the area of rectangles with whole-number sides, formula not provided

	 Determines the area of trapezoids, given the formula Determines the area of triangles, formula not provided Determines the area of triangles, given the formula Determines the circumference given the area of a circle Determines the perimeter of rectangles given the area Determines the ratio between areas of scaled figures Estimates the area of rectangles with whole-number sides, formula not provided Identifies the formula for the area of a circle Solves problems involving areas of figures composed of polygons within a real-world or mathematical context Solves problems involving areas of rectangles within a real-world or mathematical context Solves problems involving both area and perimeter of rectangles within a real-world or mathematical context
Students:	 RIT 241-250: Describes the effect on area when dimensions of a rectangle are changed Describes the effect on area when dimensions of a triangle are changed Determines the area of circles, formula not provided Determines the area of figures composed of polygons Determines the area of parallelograms, formula not provided Determines the area of quarter circles, semicircles, or three-quarter circles Determines the area of rectangles given the perimeter Determines the area of rectangles with decimal sides, formula not provided Determines the area of rectangles with decimal sides, formula not provided Determines the area of rectangles with fractional sides, formula not provided Determines the area of trapezoids, formula not provided Determines the area of trapezoids formula not provided Determines the area of scile given the area of a circle Determines the area of scile given the area of a circle Determines the ratio between areas of scaled figures Solves area word problems involving whole numbers and tiling rectangles with non-unit squares Solves problems involving areas of figures composed of polygons within a real-world or mathematical context Solves problems involving areas of polygons and circles, quarter circl
Students:	RIT 251-260:
	 Describes the effect on area when dimensions of a rectangle are changed Describes the effect on area when dimensions of a triangle are changed Describes the effect on area when the perimeter of a rectangle is changed Describes the effect on area when the radius or diameter of a circle is changed Determines the area of circles, formula not provided

	 Determines the area of figures composed of polygons Determines the area of figures composed of polygons and circles Determines the area of parallelograms, formula not provided Determines the area of quarter circles, semicircles, or three-quarter circles Determines the area of regular hexagons, formula not provided Determines the area of trapezoids, formula not provided Determines the area of triangles, formula not provided Determines the circumference given the area of a circle Determines the height, given the area and the sum of the bases of a trapezoid Determines the ratio between areas of scaled figures Solves area word problems involving whole numbers and tiling rectangles with non-unit squares Solves problems involving areas of figures composed of polygons within a real-world or mathematical context Solves problems involving areas of polygons and circles, quarter circles, semicircles, or three-quarter circles within a real-world or mathematical context
Students:	 RIT 261-270: Describes the effect on area when dimensions of a hexagon are changed Describes the effect on area when dimensions of a rhombus are changed Describes the effect on area when the circumference of a circle is changed Describes the effect on area when the radius or diameter of a circle is changed Determines the area of figures composed of polygons and circles Determines the area of kites, formula not provided Determines the ratio between areas of scaled figures Solves problems involving areas of figures composed of polygons within a real-world or mathematical context
Students:	

RIT 271-280:

• No Skills Listed

Students:

RIT 281-290:

• Solves problems involving areas of circles within a real-world or mathematical context