

DesCartes (Combined)

Subject: Mathematics
Goal: Geometry

Subject: Mathematics
 Goal Strand: Geometry
 RIT Score Range: Below 161

Skills and Concepts to Develop Below 161	Skills and Concepts to Introduce 161 - 170
Two-Dimensional Geometric Shapes	Two-Dimensional Geometric Shapes
	<ul style="list-style-type: none"> Identifies and names a triangle Identifies and names a square Identifies and names a rectangle* Identifies and names a circle*
Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes
	<ul style="list-style-type: none"> Sorts solid figures and objects according to attributes*
Transformations and Symmetry	Transformations and Symmetry
<ul style="list-style-type: none"> Predicts the shape after unfolding a figure* 	
Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane
<i>New Vocabulary: none</i>	<i>New Vocabulary: circle, corner, flat, rectangle</i>
<i>New Signs and Symbols: none</i>	<i>New Signs and Symbols: none</i>

Subject: Mathematics
Goal Strand: Geometry
RIT Score Range: 161 - 170

Skills and Concepts to Enhance Below 161	Skills and Concepts to Develop 161 - 170	Skills and Concepts to Introduce 171 - 180
Two-Dimensional Geometric Shapes	Two-Dimensional Geometric Shapes	Two-Dimensional Geometric Shapes
	<ul style="list-style-type: none"> Identifies and names a triangle Identifies and names a square Identifies and names a rectangle* Identifies and names a circle* 	<ul style="list-style-type: none"> Identifies and names a triangle Identifies and names a square Identifies and names a rectangle* Identifies and names a circle*
Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes
	<ul style="list-style-type: none"> Sorts solid figures and objects according to attributes* 	<ul style="list-style-type: none"> Identifies and names a cube
Transformations and Symmetry	Transformations and Symmetry	Transformations and Symmetry
<ul style="list-style-type: none"> Predicts the shape after unfolding a figure* 		
Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane
<i>New Vocabulary: none</i>	<i>New Vocabulary: circle, corner, flat, rectangle</i>	<i>New Vocabulary: none</i>
<i>New Signs and Symbols: none</i>	<i>New Signs and Symbols: none</i>	<i>New Signs and Symbols: none</i>

Subject: Mathematics
Goal Strand: Geometry
RIT Score Range: 171 - 180

Skills and Concepts to Enhance 161 - 170	Skills and Concepts to Develop 171 - 180	Skills and Concepts to Introduce 181 - 190
Two-Dimensional Geometric Shapes	Two-Dimensional Geometric Shapes	Two-Dimensional Geometric Shapes
<ul style="list-style-type: none"> Identifies and names a triangle Identifies and names a square Identifies and names a rectangle* Identifies and names a circle* 	<ul style="list-style-type: none"> Identifies and names a triangle Identifies and names a square Identifies and names a rectangle* Identifies and names a circle* 	<ul style="list-style-type: none"> Identifies and names multiple shapes (e.g., square, rectangle, triangle, circle)* Classifies polygons by sides and vertices
Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes
<ul style="list-style-type: none"> Sorts solid figures and objects according to attributes* 	<ul style="list-style-type: none"> Identifies and names a cube 	<ul style="list-style-type: none"> Identifies and names a cube
Transformations and Symmetry	Transformations and Symmetry	Transformations and Symmetry
		<ul style="list-style-type: none"> Identifies plane figures with line symmetry Identifies transformations of plane figures (rotations/turns) Identifies transformations of plane figures (translations/slides)*
Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane
		<ul style="list-style-type: none"> Identifies points on a line* Identifies congruent line segments* Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph)*
<i>New Vocabulary:</i> circle, corner, flat, rectangle	<i>New Vocabulary:</i> none	<i>New Vocabulary:</i> clockwise, flip, grid, line of symmetry, rotation, symmetry, turn
<i>New Signs and Symbols:</i> none	<i>New Signs and Symbols:</i> none	<i>New Signs and Symbols:</i> () ordered pair, • point

Subject: Mathematics
Goal Strand: Geometry
RIT Score Range: 181 - 190

Skills and Concepts to Enhance 171 - 180	Skills and Concepts to Develop 181 - 190	Skills and Concepts to Introduce 191 - 200
Two-Dimensional Geometric Shapes	Two-Dimensional Geometric Shapes	Two-Dimensional Geometric Shapes
<ul style="list-style-type: none"> Identifies and names a triangle Identifies and names a square Identifies and names a rectangle* Identifies and names a circle* 	<ul style="list-style-type: none"> Identifies and names multiple shapes (e.g., square, rectangle, triangle, circle)* Classifies polygons by sides and vertices 	<ul style="list-style-type: none"> Identifies angles* Identifies and names a polygon* Identifies and names a pentagon* Sorts 2-D shapes and objects according to their attributes
Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes
<ul style="list-style-type: none"> Identifies and names a cube 	<ul style="list-style-type: none"> Identifies and names a cube 	<ul style="list-style-type: none"> Identifies the number of faces on rectangular prisms
Transformations and Symmetry	Transformations and Symmetry	Transformations and Symmetry
	<ul style="list-style-type: none"> Identifies plane figures with line symmetry Identifies transformations of plane figures (rotations/turns) Identifies transformations of plane figures (translations/slides)* 	<ul style="list-style-type: none"> Identifies plane figures with line symmetry Identifies the number of lines of symmetry in plane figures Identifies transformations of plane figures (reflections/flips)
Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane
	<ul style="list-style-type: none"> Identifies points on a line* Identifies congruent line segments* Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph)* 	<ul style="list-style-type: none"> Identifies parallel lines Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph)*
<i>New Vocabulary:</i> none	<i>New Vocabulary:</i> clockwise, flip, grid, line of symmetry, rotation, symmetry, turn	<i>New Vocabulary:</i> face, intersect, large, oval, parallel, plane, polygon, rhombus, skew, straight, twist, vertical line
<i>New Signs and Symbols:</i> none	<i>New Signs and Symbols:</i> () ordered pair, • point	<i>New Signs and Symbols:</i> none

Subject: Mathematics
Goal Strand: Geometry
RIT Score Range: 191 - 200

Skills and Concepts to Enhance 181 - 190	Skills and Concepts to Develop 191 - 200	Skills and Concepts to Introduce 201 - 210
Two-Dimensional Geometric Shapes <ul style="list-style-type: none"> Identifies and names multiple shapes (e.g., square, rectangle, triangle, circle)* Classifies polygons by sides and vertices 	Two-Dimensional Geometric Shapes <ul style="list-style-type: none"> Identifies angles* Identifies and names a polygon* Identifies and names a pentagon* Sorts 2-D shapes and objects according to their attributes 	Two-Dimensional Geometric Shapes <ul style="list-style-type: none"> Identifies angles* Identifies and names a parallelogram* Identifies and names a polygon* Identifies and names a hexagon* Identifies and names a octagon* Classifies polygons by sides and angles
Three-Dimensional Geometric Shapes <ul style="list-style-type: none"> Identifies and names a cube 	Three-Dimensional Geometric Shapes <ul style="list-style-type: none"> Identifies the number of faces on rectangular prisms 	Three-Dimensional Geometric Shapes <ul style="list-style-type: none"> Classifies cubes by their properties (e.g., edges with equal lengths, faces with equal areas and congruent shapes, right angle corners)
Transformations and Symmetry <ul style="list-style-type: none"> Identifies plane figures with line symmetry Identifies transformations of plane figures (rotations/turns) Identifies transformations of plane figures (translations/slides)* 	Transformations and Symmetry <ul style="list-style-type: none"> Identifies plane figures with line symmetry Identifies the number of lines of symmetry in plane figures Identifies transformations of plane figures (reflections/flips) 	Transformations and Symmetry <ul style="list-style-type: none"> Classifies plane figures by the number of lines of symmetry* Defines transformations*
Location and Relationships in the Coordinate Plane <ul style="list-style-type: none"> Identifies points on a line* Identifies congruent line segments* Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph)* 	Location and Relationships in the Coordinate Plane <ul style="list-style-type: none"> Identifies parallel lines Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph)* 	Location and Relationships in the Coordinate Plane <ul style="list-style-type: none"> Identifies intersecting lines Identifies parallel lines Identifies right angles* Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph)*
<i>New Vocabulary:</i> clockwise, flip, grid, line of symmetry, rotation, symmetry, turn	<i>New Vocabulary:</i> face, intersect, large, oval, parallel, plane, polygon, rhombus, skew, straight, twist, vertical line	<i>New Vocabulary:</i> edge, larger, mirror image, octagon, parallel line, quadrilateral, regular polygon, trapezoid, vertex
<i>New Signs and Symbols:</i> () ordered pair, • point	<i>New Signs and Symbols:</i> none	<i>New Signs and Symbols:</i> ↔ line symbol

Subject: Mathematics
Goal Strand: Geometry
RIT Score Range: 201 - 210

Skills and Concepts to Enhance 191 - 200	Skills and Concepts to Develop 201 - 210	Skills and Concepts to Introduce 211 - 220
Two-Dimensional Geometric Shapes	Two-Dimensional Geometric Shapes	Two-Dimensional Geometric Shapes
<ul style="list-style-type: none"> Identifies angles* Identifies and names a polygon* Identifies and names a pentagon* Sorts 2-D shapes and objects according to their attributes 	<ul style="list-style-type: none"> Identifies angles* Identifies and names a parallelogram* Identifies and names a polygon* Identifies and names a hexagon* Identifies and names a octagon* Classifies polygons by sides and angles 	<ul style="list-style-type: none"> Identifies right angles within adjacent angles* Identifies the number of degrees in a circle* Identifies and names a quadrilateral* Identifies altitudes of polygons (not triangles)* Classifies polygons by type of angle* Classifies polygons by number of sides*
Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes
<ul style="list-style-type: none"> Identifies the number of faces on rectangular prisms 	<ul style="list-style-type: none"> Classifies cubes by their properties (e.g., edges with equal lengths, faces with equal areas and congruent shapes, right angle corners) 	<ul style="list-style-type: none"> Identifies corners (vertices) of cubes* Identifies and names a rectangular prism* Classifies triangular prisms by their properties (e.g., base shape, lateral surface shape, vertices)* Compares simple plane figures to solid figures (e.g., circle/sphere, square/cube, rectangle/rectangular solid)*
Transformations and Symmetry	Transformations and Symmetry	Transformations and Symmetry
<ul style="list-style-type: none"> Identifies plane figures with line symmetry Identifies the number of lines of symmetry in plane figures Identifies transformations of plane figures (reflections/flips) 	<ul style="list-style-type: none"> Classifies plane figures by the number of lines of symmetry* Defines transformations* 	<ul style="list-style-type: none"> Classifies plane figures by the number of lines of symmetry* Identifies geometric transformations (rotations)* Identifies geometric transformations (translations)* Identifies geometric transformations (reflections)*
Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane
<ul style="list-style-type: none"> Identifies parallel lines Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph)* 	<ul style="list-style-type: none"> Identifies intersecting lines Identifies parallel lines Identifies right angles* Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph)* 	<ul style="list-style-type: none"> Identifies perpendicular lines* Describes relationships among points, lines, and planes, and identifies models in the environment* Identifies properties of angles Identifies acute angles Identifies obtuse angles
<i>New Vocabulary:</i> face, intersect, large, oval, parallel, plane, polygon, rhombus, skew, straight, twist, vertical line	<i>New Vocabulary:</i> edge, larger, mirror image, octagon, parallel line, quadrilateral, regular polygon, trapezoid, vertex	<i>New Vocabulary:</i> acute angle, congruent angle, dilation, geometric solid, obtuse angle, perpendicular line, straight angle, tessellation, three-dimensional, transformation, translation, union
<i>New Signs and Symbols:</i> none	<i>New Signs and Symbols:</i> ↔ line symbol	<i>New Signs and Symbols:</i> ∠ angle, angle marker (arc), ° degrees, right angle marker

Subject: Mathematics
Goal Strand: Geometry
RIT Score Range: 211 - 220

Skills and Concepts to Enhance 201 - 210	Skills and Concepts to Develop 211 - 220	Skills and Concepts to Introduce 221 - 230
<p>Two-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Identifies angles* Identifies and names a parallelogram* Identifies and names a polygon* Identifies and names a hexagon* Identifies and names an octagon* Classifies polygons by sides and angles 	<p>Two-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Identifies right angles within adjacent angles* Identifies the number of degrees in a circle* Identifies and names a quadrilateral* Identifies altitudes of polygons (not triangles)* Classifies polygons by type of angle* Classifies polygons by number of sides* 	<p>Two-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Identifies right angles within adjacent angles* Recognizes the interior angle relationships of triangles Classifies equilateral triangles* Identifies and names a trapezoid* Identifies the number of degrees in a circle* Identifies and names a quadrilateral* Compares polygons by properties Identifies the number of diagonals of regular polygons* Identifies properties of quadrilaterals* Classifies polygons by type of angle*
<p>Three-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Classifies cubes by their properties (e.g., edges with equal lengths, faces with equal areas and congruent shapes, right angle corners) 	<p>Three-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Identifies corners (vertices) of cubes* Identifies and names a rectangular prism* Classifies triangular prisms by their properties (e.g., base shape, lateral surface shape, vertices)* Compares simple plane figures to solid figures (e.g., circle/sphere, square/cube, rectangle/rectangular solid)* 	<p>Three-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Identifies the number of edges on rectangular prisms*
<p>Transformations and Symmetry</p> <ul style="list-style-type: none"> Classifies plane figures by the number of lines of symmetry* Defines transformations* 	<p>Transformations and Symmetry</p> <ul style="list-style-type: none"> Classifies plane figures by the number of lines of symmetry* Identifies geometric transformations (rotations)* Identifies geometric transformations (translations)* Identifies geometric transformations (reflections)* 	<p>Transformations and Symmetry</p> <ul style="list-style-type: none"> Predicts changes necessary to create symmetry in basic plane shapes* Identifies geometric transformations (rotations)* Identifies geometric transformations (translations)* Identifies geometric transformations (reflections)*
<p>Location and Relationships in the Coordinate Plane</p> <ul style="list-style-type: none"> Identifies intersecting lines Identifies parallel lines Identifies right angles* Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph)* 	<p>Location and Relationships in the Coordinate Plane</p> <ul style="list-style-type: none"> Identifies perpendicular lines* Describes relationships among points, lines, and planes, and identifies models in the environment* Identifies properties of angles Identifies acute angles Identifies obtuse angles 	<p>Location and Relationships in the Coordinate Plane</p> <ul style="list-style-type: none"> Determines which lines are perpendicular (analysis)* Identifies properties of parallel and perpendicular lines Identifies and determines missing angle measures for supplementary angles Identifies acute angles Determines coordinates of geometric figures in the first quadrant
<p><i>New Vocabulary:</i> edge, larger, mirror image, octagon, parallel line, quadrilateral, regular polygon, trapezoid,</p>	<p><i>New Vocabulary:</i> acute angle, congruent angle, dilation, geometric solid, obtuse angle, perpendicular line, straight</p>	<p><i>New Vocabulary:</i> congruent side, equilateral, interior angle, isosceles triangle, obtuse triangle, right triangle,</p>

vertex	angle, tessellation, three-dimensional, transformation, translation, union	scalene triangle, sum of measures
<i>New Signs and Symbols:</i> \leftrightarrow line symbol	<i>New Signs and Symbols:</i> \sphericalangle angle, angle marker (arc), $^{\circ}$ degrees, right angle marker	<i>New Signs and Symbols:</i> = is equal to, parallel symbol, segment overbar

Subject: Mathematics
Goal Strand: Geometry
RIT Score Range: 221 - 230

Skills and Concepts to Enhance 211 - 220	Skills and Concepts to Develop 221 - 230	Skills and Concepts to Introduce 231 - 240
<p>Two-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Identifies right angles within adjacent angles* Identifies the number of degrees in a circle* Identifies and names a quadrilateral* Identifies altitudes of polygons (not triangles)* Classifies polygons by type of angle* Classifies polygons by number of sides* 	<p>Two-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Identifies right angles within adjacent angles* Recognizes the interior angle relationships of triangles Classifies equilateral triangles* Identifies and names a trapezoid* Identifies the number of degrees in a circle* Identifies and names a quadrilateral* Compares polygons by properties Identifies the number of diagonals of regular polygons* Identifies properties of quadrilaterals* Classifies polygons by type of angle* 	<p>Two-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Identifies parts of a right triangle (legs, hypotenuse, angles)* Recognizes the interior angle relationships of triangles Classifies isosceles triangles Classifies scalene triangles* Identifies properties of circles Compares polygons by properties
<p>Three-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Identifies corners (vertices) of cubes* Identifies and names a rectangular prism* Classifies triangular prisms by their properties (e.g., base shape, lateral surface shape, vertices)* Compares simple plane figures to solid figures (e.g., circle/sphere, square/cube, rectangle/rectangular solid)* 	<p>Three-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Identifies the number of edges on rectangular prisms* 	<p>Three-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Classifies square pyramids by their properties (e.g., base shape, lateral surface shape, vertices)* Classifies rectangular pyramids by their properties (e.g., base shape, lateral surface shape, vertices)*
<p>Transformations and Symmetry</p> <ul style="list-style-type: none"> Classifies plane figures by the number of lines of symmetry* Identifies geometric transformations (rotations)* Identifies geometric transformations (translations)* Identifies geometric transformations (reflections)* 	<p>Transformations and Symmetry</p> <ul style="list-style-type: none"> Predicts changes necessary to create symmetry in basic plane shapes* Identifies geometric transformations (rotations)* Identifies geometric transformations (translations)* Identifies geometric transformations (reflections)* 	<p>Transformations and Symmetry</p> <ul style="list-style-type: none"> Identifies geometric transformations (dilations)
<p>Location and Relationships in the Coordinate Plane</p> <ul style="list-style-type: none"> Identifies perpendicular lines* Describes relationships among points, lines, and planes, and identifies models in the environment* Identifies properties of angles Identifies acute angles Identifies obtuse angles 	<p>Location and Relationships in the Coordinate Plane</p> <ul style="list-style-type: none"> Determines which lines are perpendicular (analysis)* Identifies properties of parallel and perpendicular lines Identifies and determines missing angle measures for supplementary angles Identifies acute angles Determines coordinates of geometric figures in the first quadrant 	<p>Location and Relationships in the Coordinate Plane</p> <ul style="list-style-type: none"> Determines which lines are perpendicular (analysis)* Identifies and measures straight angles Identifies and determines a missing angle measure in corresponding, vertical, and alternate exterior/interior angles*
<p><i>New Vocabulary:</i> acute angle, congruent angle, dilation, geometric solid, obtuse angle, perpendicular line, straight</p>	<p><i>New Vocabulary:</i> congruent side, equilateral, interior angle, isosceles triangle, obtuse triangle, right triangle,</p>	<p><i>New Vocabulary:</i> acute triangle, chord, equiangular triangle, secant, square pyramid, tangent</p>

angle, tessellation, three-dimensional, transformation, translation, union	scalene triangle, sum of measures	
<i>New Signs and Symbols:</i> \angle angle, angle marker (arc), $^\circ$ degrees, right angle marker	<i>New Signs and Symbols:</i> = is equal to, parallel symbol, segment overbar	<i>New Signs and Symbols:</i> congruent segment symbol

Subject: Mathematics
Goal Strand: Geometry
RIT Score Range: 231 - 240

Skills and Concepts to Enhance 221 - 230	Skills and Concepts to Develop 231 - 240	Skills and Concepts to Introduce 241 - 250
Two-Dimensional Geometric Shapes <ul style="list-style-type: none"> Identifies right angles within adjacent angles* Recognizes the interior angle relationships of triangles Classifies equilateral triangles* Identifies and names a trapezoid* Identifies the number of degrees in a circle* Identifies and names a quadrilateral* Compares polygons by properties Identifies the number of diagonals of regular polygons* Identifies properties of quadrilaterals* Classifies polygons by type of angle* 	Two-Dimensional Geometric Shapes <ul style="list-style-type: none"> Identifies parts of a right triangle (legs, hypotenuse, angles)* Recognizes the interior angle relationships of triangles Classifies isosceles triangles Classifies scalene triangles* Identifies properties of circles Compares polygons by properties 	Two-Dimensional Geometric Shapes <ul style="list-style-type: none"> Recognizes that the sum of the measures of two sides of a triangle must be greater than the measure of the third side* Recognizes the exterior angle relationships of triangles* Classifies right triangles by defining properties* Identifies and names a rhombus*
Three-Dimensional Geometric Shapes <ul style="list-style-type: none"> Identifies the number of edges on rectangular prisms* 	Three-Dimensional Geometric Shapes <ul style="list-style-type: none"> Classifies square pyramids by their properties (e.g., base shape, lateral surface shape, vertices)* Classifies rectangular pyramids by their properties (e.g., base shape, lateral surface shape, vertices)* 	Three-Dimensional Geometric Shapes
Transformations and Symmetry <ul style="list-style-type: none"> Predicts changes necessary to create symmetry in basic plane shapes* Identifies geometric transformations (rotations)* Identifies geometric transformations (translations)* Identifies geometric transformations (reflections)* 	Transformations and Symmetry <ul style="list-style-type: none"> Identifies geometric transformations (dilations) 	Transformations and Symmetry <ul style="list-style-type: none"> Determines the new coordinates of a transformed geometric figure
Location and Relationships in the Coordinate Plane <ul style="list-style-type: none"> Determines which lines are perpendicular (analysis)* Identifies properties of parallel and perpendicular lines Identifies and determines missing angle measures for supplementary angles Identifies acute angles Determines coordinates of geometric figures in the first quadrant 	Location and Relationships in the Coordinate Plane <ul style="list-style-type: none"> Determines which lines are perpendicular (analysis)* Identifies and measures straight angles Identifies and determines a missing angle measure in corresponding, vertical, and alternate exterior/interior angles* 	Location and Relationships in the Coordinate Plane <ul style="list-style-type: none"> Identifies properties of congruent angles* Identifies and determines missing angle measures for complementary angles Uses properties of angles and figures to solve algebraic problems* Identifies and determines a missing angle measure in corresponding, vertical, and alternate exterior/interior angles* Defines angles using properties (e.g., acute, obtuse, right, straight, reflex)* Identifies corresponding and alternate exterior/interior angles

<i>New Vocabulary:</i> congruent side, equilateral, interior angle, isosceles triangle, obtuse triangle, right triangle, scalene triangle, sum of measures	<i>New Vocabulary:</i> acute triangle, chord, equiangular triangle, secant, square pyramid, tangent	<i>New Vocabulary:</i> adjacent angle, transversal, x-axis, y-axis
<i>New Signs and Symbols:</i> = is equal to, parallel symbol, segment overbar	<i>New Signs and Symbols:</i> congruent segment symbol	<i>New Signs and Symbols:</i> () order of operations, + addition, \cong is congruent to, < less than, m measure of angle, - negative number, \rightarrow ray symbol

Subject: Mathematics
Goal Strand: Geometry
RIT Score Range: 241 - 250

Skills and Concepts to Enhance 231 - 240	Skills and Concepts to Develop 241 - 250	Skills and Concepts to Introduce 251 - 260
<p>Two-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Identifies parts of a right triangle (legs, hypotenuse, angles)* Recognizes the interior angle relationships of triangles Classifies isosceles triangles Classifies scalene triangles* Identifies properties of circles Compares polygons by properties 	<p>Two-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Recognizes that the sum of the measures of two sides of a triangle must be greater than the measure of the third side* Recognizes the exterior angle relationships of triangles* Classifies right triangles by defining properties* Identifies and names a rhombus* 	<p>Two-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Recognizes that the sum of the measures of two sides of a triangle must be greater than the measure of the third side* Recognizes and uses medians in triangles* Recognizes the exterior angle relationships of triangles* Classifies right triangles by defining properties* Identifies and names a rhombus* Uses sums of interior/exterior angles to identify polygons Uses number of sides to find angle measures of polygons Classifies polygons by properties
<p>Three-Dimensional Geometric Shapes</p> <ul style="list-style-type: none"> Classifies square pyramids by their properties (e.g., base shape, lateral surface shape, vertices)* Classifies rectangular pyramids by their properties (e.g., base shape, lateral surface shape, vertices)* 	<p>Three-Dimensional Geometric Shapes</p>	<p>Three-Dimensional Geometric Shapes</p>
<p>Transformations and Symmetry</p> <ul style="list-style-type: none"> Identifies geometric transformations (dilations) 	<p>Transformations and Symmetry</p> <ul style="list-style-type: none"> Determines the new coordinates of a transformed geometric figure 	<p>Transformations and Symmetry</p> <ul style="list-style-type: none"> Uses picture representations to identify corresponding parts of symmetric plane figures* Uses picture representations to identify symmetry of plane figures with respect to a point or line
<p>Location and Relationships in the Coordinate Plane</p> <ul style="list-style-type: none"> Determines which lines are perpendicular (analysis)* Identifies and measures straight angles Identifies and determines a missing angle measure in corresponding, vertical, and alternate exterior/interior angles* 	<p>Location and Relationships in the Coordinate Plane</p> <ul style="list-style-type: none"> Identifies properties of congruent angles* Identifies and determines missing angle measures for complementary angles Uses properties of angles and figures to solve algebraic problems* Identifies and determines a missing angle measure in corresponding, vertical, and alternate exterior/interior angles* Defines angles using properties (e.g., acute, obtuse, right, straight, reflex)* Identifies corresponding and alternate exterior/interior angles 	<p>Location and Relationships in the Coordinate Plane</p> <ul style="list-style-type: none"> Defines the properties or relationships between planes, including parallel, perpendicular, and intersecting planes and their angles of incidence* Identifies properties of congruent angles* Uses properties of angles and figures to solve algebraic problems* Identifies corresponding and alternate exterior/interior angles

<i>New Vocabulary:</i> acute triangle, chord, equiangular triangle, secant, square pyramid, tangent	<i>New Vocabulary:</i> adjacent angle, transversal, x-axis, y-axis	<i>New Vocabulary:</i> collinear, exterior angle, line symmetry, point symmetry, regular hexagon, rotational symmetry
<i>New Signs and Symbols:</i> congruent segment symbol	<i>New Signs and Symbols:</i> () order of operations, + addition, \cong is congruent to, < less than, m measure of angle, - negative number, \rightarrow ray symbol	<i>New Signs and Symbols:</i> - subtraction, Δ triangle

Subject: Mathematics
Goal Strand: Geometry
RIT Score Range: 251 - 260

Skills and Concepts to Enhance 241 - 250	Skills and Concepts to Develop 251 - 260	Skills and Concepts to Introduce 261 - 270
Two-Dimensional Geometric Shapes	Two-Dimensional Geometric Shapes	Two-Dimensional Geometric Shapes
<ul style="list-style-type: none"> Recognizes that the sum of the measures of two sides of a triangle must be greater than the measure of the third side* Recognizes the exterior angle relationships of triangles* Classifies right triangles by defining properties* Identifies and names a rhombus* 	<ul style="list-style-type: none"> Recognizes that the sum of the measures of two sides of a triangle must be greater than the measure of the third side* Recognizes and uses medians in triangles* Recognizes the exterior angle relationships of triangles* Classifies right triangles by defining properties* Identifies and names a rhombus* Uses sums of interior/exterior angles to identify polygons Uses number of sides to find angle measures of polygons Classifies polygons by properties 	<ul style="list-style-type: none"> Identifies the number of diagonals of regular polygons using the formula*
Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes
Transformations and Symmetry	Transformations and Symmetry	Transformations and Symmetry
<ul style="list-style-type: none"> Determines the new coordinates of a transformed geometric figure 	<ul style="list-style-type: none"> Uses picture representations to identify corresponding parts of symmetric plane figures* Uses picture representations to identify symmetry of plane figures with respect to a point or line 	
Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane
<ul style="list-style-type: none"> Identifies properties of congruent angles* Identifies and determines missing angle measures for complementary angles Uses properties of angles and figures to solve algebraic problems* Identifies and determines a missing angle measure in corresponding, vertical, and alternate exterior/interior angles* Defines angles using properties (e.g., acute, obtuse, right, straight, reflex)* Identifies corresponding and alternate exterior/interior angles 	<ul style="list-style-type: none"> Defines the properties or relationships between planes, including parallel, perpendicular, and intersecting planes and their angles of incidence* Identifies properties of congruent angles* Uses properties of angles and figures to solve algebraic problems* Identifies corresponding and alternate exterior/interior angles 	
<i>New Vocabulary:</i> adjacent angle, transversal, x-axis, y-axis	<i>New Vocabulary:</i> collinear, exterior angle, line symmetry, point symmetry, regular hexagon, rotational symmetry	<i>New Vocabulary:</i> decagon
<i>New Signs and Symbols:</i> () order of operations, +	<i>New Signs and Symbols:</i> – subtraction, Δ triangle	<i>New Signs and Symbols:</i> none

addition, \cong is congruent to, $<$ less than, m measure of angle, $-$ negative number, \rightarrow ray symbol		
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Subject: Mathematics
Goal Strand: Geometry
RIT Score Range: 261 - 270

Skills and Concepts to Enhance 251 - 260	Skills and Concepts to Develop 261 - 270	Skills and Concepts to Introduce Above 270
Two-Dimensional Geometric Shapes <ul style="list-style-type: none"> Recognizes that the sum of the measures of two sides of a triangle must be greater than the measure of the third side* Recognizes and uses medians in triangles* Recognizes the exterior angle relationships of triangles* Classifies right triangles by defining properties* Identifies and names a rhombus* Uses sums of interior/exterior angles to identify polygons Uses number of sides to find angle measures of polygons Classifies polygons by properties 	Two-Dimensional Geometric Shapes <ul style="list-style-type: none"> Identifies the number of diagonals of regular polygons using the formula* 	Two-Dimensional Geometric Shapes <ul style="list-style-type: none"> Identifies the number of diagonals of regular polygons using the formula*
Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes
Transformations and Symmetry <ul style="list-style-type: none"> Uses picture representations to identify corresponding parts of symmetric plane figures* Uses picture representations to identify symmetry of plane figures with respect to a point or line 	Transformations and Symmetry	Transformations and Symmetry
Location and Relationships in the Coordinate Plane <ul style="list-style-type: none"> Defines the properties or relationships between planes, including parallel, perpendicular, and intersecting planes and their angles of incidence* Identifies properties of congruent angles* Uses properties of angles and figures to solve algebraic problems* Identifies corresponding and alternate exterior/interior angles 	Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane
<i>New Vocabulary:</i> collinear, exterior angle, line symmetry, point symmetry, regular hexagon, rotational symmetry	<i>New Vocabulary:</i> decagon	<i>New Vocabulary:</i> none
<i>New Signs and Symbols:</i> – subtraction, Δ triangle	<i>New Signs and Symbols:</i> none	<i>New Signs and Symbols:</i> none

Subject: Mathematics
Goal Strand: Geometry
RIT Score Range: Above 270

Skills and Concepts to Enhance 261 - 270	Skills and Concepts to Develop Above 270
Two-Dimensional Geometric Shapes	Two-Dimensional Geometric Shapes
<ul style="list-style-type: none"> Identifies the number of diagonals of regular polygons using the formula* 	<ul style="list-style-type: none"> Identifies the number of diagonals of regular polygons using the formula*
Three-Dimensional Geometric Shapes	Three-Dimensional Geometric Shapes
Transformations and Symmetry	Transformations and Symmetry
Location and Relationships in the Coordinate Plane	Location and Relationships in the Coordinate Plane
<i>New Vocabulary: decagon</i>	<i>New Vocabulary: none</i>
<i>New Signs and Symbols: none</i>	<i>New Signs and Symbols: none</i>