Jefferson City Public Schools–Curriculum

SUBJECT: Elementary

COURSE: EER

STRAND: Geometry: Getting Into Shapes

Objectives	Assessment/Evaluation	Instructional Activities

(A) Identify, compare, and analyze attributes of two- and three-dimensional shapes and develop vocabulary to describe the attributes
 	
Performance: 1.5, 1.6, 2.1
Knowledge: (CA) 1,4 (MA) 2,4
CAGLE: R.1.E; W.3.A (Gr. 6)
MAGLE: GSR.1.A,B (Gr. 5)
NETS: N/A
DOK: 1-4
	• Pre-test: Shapes & Forms
	• Quizzes: Geometry vocabulary
	• Math journal entries – assessed using a scoring guide
	• Post-test: Getting Into Shapes
		• Math Speak – vocabulary
		• Geometric notation
		• Characteristics of polygons:
		  • quadrilaterals
		  • parallelograms
		  • rectangles
		  • rhombi
		  • squares
		  • trapezoids
		• Activities:
		  • Word Wise
		  • Hunting for Shapes
		  • Taking a Look at Polyhedra
		  • Inside 3-Dimensional Shapes
		  • Quad Squad

(B) Investigate, describe, and reason about the results of subdividing, combining, and transforming shapes
 	
Performance: 1.6, 1.8, 2.3, 3.3, 3.4
Knowledge: (MA) 1,2,4
MAGLE: GSR.1.C (Gr. 5); GSR.3.A (Gr. 6)
NETS: N/A
DOK: 1-4
	Assess worksheets using scoring guides:
	• Transforming Shapes: Turn Me Around
	• Dogging It: Partner Trade
		• Worksheets:
		  • Transforming Shapes: Turn Me Around
		  • Dogging It: Partner Trade
		• Activities:
		  • GeoBoard
		  • Flipping Around game board
		  • Reflect Over Here
		  • Tangrams

Objectives	Assessment/Evaluation	Instructional Activities

(C) Identify and describe line and rotational symmetry in two- and three-dimensional shapes and designs
 	
Performance: 1.6, 1.8, 2.1, 3.3, 3.4
Knowledge: (MA) 1-3
MAGLE: GSR.3.C (Gr. 6)
NETS: N/A
DOK: 1-4
	Projects assessed using a scoring guide:
	• Paper cutting Geometry
	• Parabolic Pattern
		• Symmetry activities:
		  • rotational
		  • bilateral
		  • equilateral
		  • triangles
		  • cubes
		  • spheres
		• Activities:
		  • Exploring Amazing Circles
		  • Paper Cutting Geometry
		  • Straight Lines That Curve

(D) Build and draw geometric two-dimensional shapes and three-dimensional solids
 	
Performance: 1.4, 1.6, 1.8, 2.7, 3.3, 3.4
Knowledge: (MA) 1,2,4
MAGLE: GSR.2.A; GSR.4.A; M.1.A (Gr. 6); M.2.B,C (Gr. 7)
NETS: (3-5) 5
DOK: 1-4
	Assessed using a scoring guide:
	• Tessellations Design
	• Creating a 3-Dimensional Platform
	• Build a Puzzle Pyramid
		• Worksheet and activities:
		  • Tessellations
		  • Solid Thinking
		  • Draft Color Tiles
		• Origami Projects: 3-Dimensional Forms:
		  • 5 sided box
		  • rectangular box
		  • cube
		• Activities:
		  • Sorting solids
		  • GeoBoard
		  • Using isometric drawing tools

Objectives	Assessment/Evaluation	Instructional Activities

(E) Use geometric models to solve problems in other areas of mathematics such as number and measurement
 	
Performance: 1.6, 1.8, 3.1-3.4
Knowledge: (MA) 1,2,4,5
MAGLE: GSR.4.B; M.1.A (Gr. 6); M.2.B,C (Gr. 7)
NETS: N/A
DOK: 1-4
	Assess worksheets and activities using a scoring guide:
	• Planning a Plot
	• Share and Repair
	• Math on a Map
		• GeoBoard Formulas:
		  • rectangles
		  • parallelograms
		  • triangles
		  • squares
		• Worksheets and activities:
		  • Planning a Plot
		  • Share and Repair
		  • Math on a Map