

Hardin County Schools Combined Curriculum Guide
 Mathematics – Fifth Grade – Geometry
 DRAFT

Big Idea		GEOMETRY			
Academic Expectations		2.8 Students understand various mathematical procedures and use them appropriately and accurately. 2.9 Students understand space and dimensionality concepts and use them appropriately and accurately.			
POS Understandings		MA-5-G-U-1 Students will understand that characteristics and properties of two-dimensional figures and three-dimensional objects describe the world and are used to develop mathematical arguments about geometric relationships and to evaluate the arguments of others.	9 Weeks Taught	1 2 3 4	
POS Skills & Concepts		Date(s) Taught	Core Content for Assessment	Objective	Essential Vocabulary
MA-5-G-S-SR1 Students will identify and model basic two-dimensional figures and three-dimensional objects by appearance and in different orientations (e.g., representations of different views of figures and objects). MA-5-G-S-SR2 Students will classify angles as acute, right, or obtuse. MA-5-G-S-SR3 Students will describe and provide examples of basic geometric elements and terms and apply these elements to solve real-world problems. MA-5-G-S-SR4 Students will describe and provide examples of basic two-dimensional figures and three-dimensional objects and apply these to solve real-world problems. MA-5-G-S-SR5 Students will identify and describe congruent and similar figures in real-world or mathematical situations.			MA-05-3.1.3 Students will describe and provide examples of basic three-dimensional objects (spheres, cones, cylinders, pyramids, cubes, triangular and rectangular prisms), will identify three-dimensional objects from two-dimensional representations (nets) and will apply the attributes to solve real-world and mathematical problems. <div style="text-align: right;">DOK 2</div>	I can describe and provide examples of three-dimensional objects.	Spheres Cones Cylinders Pyramids Cubes Triangular Prisms Rectangular Prisms Sides Edges Faces Vertices
Strategies & Activities			Resources	Common Assessments	

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	Essential Questions	Higher Order Questions

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POS Understandings	MA-5-G-U-3 Students will understand that transformations and symmetry are used to analyze real-world situations (e.g., art, nature, construction and scientific exploration). MA-5-G-U-4 Students will understand shape and area are conserved during mathematical transformations (flips, slides and turns)		9 Weeks Taught	1 2 3 4
POS Skills & Concepts	Date(s) Taught	Core Content for Assessment	Objective	Essential Vocabulary
MA-5-G-S-TS1 Students will describe and provide examples of line symmetry in real-world situations and apply line symmetry to construct simple geometric designs. MA-5-G-S-TS2 Students will identify and draw basic two-dimensional shapes in different orientations using 90° rotations (turns) around a point of rotation, reflections (flips) and translations (slides) within a		MA-05-3.2.1 Students will describe and provide examples of line symmetry in real-world and mathematical problems or will apply line symmetry to construct a geometric design. DOK 3 MA-05-3.2.2 Students will identify 90° rotations, reflections or translations of basic shapes within a plane. DOK 1	I can describe and provide examples of line(s) of symmetry. I can identify translations (slide), reflections (flip), and rotations (turn).	Line of Symmetry Transformation Translations (Slide) Reflections (Flip) Rotations (Turn)
Strategies & Activities	Resources		Common Assessments	
	Essential Questions		Higher Order Questions	

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POS Understandings	MA-5-G-U-5	9 Weeks Taught	1	2	3	4
MA-5-G-U-5 Students will understand that visualization, spatial reasoning and geometric relationships model real-world situations.						
POS Skills & Concepts	Date(s) Taught	Core Content for Assessment	Objective	Essential Vocabulary		
MA-5-G-S-SR3 Students will describe and provide examples of basic geometric elements and terms and apply these elements to solve real-world problems. MA-5-G-S-SR4 Students will describe and provide examples of basic two-dimensional figures and three-dimensional objects and apply these to solve real-world problems. MA-5-G-S-SR5 Students will identify and describe congruent and similar figures in real-world or mathematical situations. MA-5-G-S-TS1 Students will describe and provide examples of line symmetry in real-world situations and apply line symmetry to construct simple geometric designs. MA-5-G-S-TS2 Students will identify and draw basic two-dimensional shapes in different orientations using 90° rotations (turns) around a point of rotation, reflections (flips) and translations (slides) within a plane.		MA-05-3.1.3 Students will describe and provide examples of basic three-dimensional objects (spheres, cones, cylinders, pyramids, cubes, triangular and rectangular prisms), will identify three-dimensional objects from two-dimensional representations (nets) and will apply the attributes to solve real-world and mathematical problems. DOK 2 MA-05-3.2.1 Students will describe and provide examples of line symmetry in real-world and mathematical problems or will apply line symmetry to construct a geometric design. DOK 3				
Strategies & Activities		Resources	Common Assessments			
		Essential Questions	Higher Order Questions			