Honors Geometry Subject Group Overview

Unit Name		Unit 1: Transformations in the Coordinate Plane	Unit 2: Similarity, Congruence, and Proofs	Unit 3: Right Triangle Trigonometry
Time Frame		3 Weeks	9 Weeks	4 Weeks
Course Name: Geometry	**Standards**	MGSE9-12.G.CO.1 MGSE9-12.G.CO.2 MGSE9-12.G.CO.3 MGSE9-12.G.CO.4 MGSE9-12.G.CO.5	MGSE9-12.G.SRT.1 MGSE9-12.G.SRT.2 MGSE9-12.G.SRT.3 MGSE9-12.G.SRT.4 MGSE9-12.G.SRT.5 MGSE9-12.G.CO.6 MGSE9-12.G.CO.7 MGSE9-12.G.CO.8 MGSE9-12.G.CO.9 MGSE9-12.G.CO.10 MGSE9-12.G.CO.11 MGSE9-12.G.CO.12 MGSE9-12.G.CO.13	MGSE9-12.G.SRT.6 MGSE9-12.G.SRT.7 MGSE9-12.G.SRT.8
	Approaches To Learning Instructional Strategies	● In order for students to be able to manage their state of mind, students must practice focus and concentration. ● In order for students to be reflective, students must focus on the process of creating by imitating the work of others. ● In order for students to be creative, students must create original works and ideas; use existing works and ideas in new ways.	● Combine knowledge, understanding and skills to create products or solutions ● Students are transferring their knowledge and skills of similarity and congruence into an authentic real-life problem. ● Considering content (What did I learn today? What do I not yet understand? What questions do I have now?) ● Students are expected to reflect on their results and methods through all activities and tasks to understand better the relationship between dilations, similarity, and congruence.	● Give and receive meaningful feedback ● Negotiate ideas and knowledge with peers and teachers ● Use and interpret a range of discipline-specific terms and symbols ● Draw reasonable conclusions and generalizations ● Apply existing knowledge to generate new ideas, products or processes ● Apply skills and knowledge in unfamiliar situations
	Statement of Inquiry	Investigation of relationships in terms of space and patterns as it relates to personal and cultural expression through design.	Mathematicians use congruent & similar triangles to generalize and prove relationships.	Establishing relationships helps us to understand and model change.
	Global Context	Personal and Cultural Expression	Identities and relationships	Scientific and Technical Innovation Exploration: Mathematical puzzles, principles and discoveries
	Key Concepts	Relationships	Logic	Relationships
	Related Concepts	Space and Pattern	Equivalence Justification	Pattern and Model

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	Design Cycle Transdisciplinary	Math 5E Lesson Structure: Engage Explore Explain Extend Evaluate	Math 5E Lesson Structure: Engage Explore Explain Extend Evaluate	Math 5E Lesson Structure: Engage Explore Explain Extend Evaluate
	MYP Assessments/ Performance Tasks	Common Unit Quiz Common Unit Test	Common Unit Quiz Common Unit Tests ● Unit 2A over Parallel Lines and Triangle Congruence ● Unit 2 Cumulative over all topics MYP Assessment – Rubric A MYP Assessment – Rubric B	Common Unit Quiz Common Unit Test MYP Assessments – Rubric A MYP Assessments – Rubrics D
	Differentiation For Tiered Learners	● SWD/504- Accommodations provided ● ELL- Five Principle ELL Curriculum Framework and Vocabulary Supports ● Intervention Support- Re-teaching Activities in Small Groups with Progress Monitoring ● Extensions- Enrichment Tasks and Projects ● Use of manipulatives ● Chunking of material & focus on power standards ● Guided notes with pictorial representations ● Interactive Notebooks ● Scaffolded lessons	● SWD/504- Accommodations provided ● ELL- Five Principle ELL Curriculum Framework and Vocabulary Supports ● Intervention Support- Re-teaching Activities in Small Groups with Progress Monitoring ● Extensions- Enrichment Tasks and Projects ● Use of manipulatives ● Chunking of material & focus on power standards ● Guided notes with pictorial representations ● Interactive Notebooks ● Scaffolded lessons	● SWD/504- Accommodations provided ● ELL- Five Principle ELL Curriculum Framework and Vocabulary Supports ● Intervention Support- Re-teaching Activities in Small Groups with Progress Monitoring ● Extensions- Enrichment Tasks and Projects ● Use of manipulatives ● Chunking of material & focus on power standards ● Guided notes with pictorial representations ● Interactive Notebooks ● Scaffolded lessons

Honors Geometry Subject Group Overview

Unit Name		Unit 4: Circles and Volume	Unit 5: Geometric and Algebraic Connections	Unit 6: Applications of Probability
Time Frame		8 Weeks	5 Weeks	5 Weeks
Course Name: Geometry	**Standards**	MGSE9-12.G.C.1 MGSE9-12.G.C.2 MGSE9-12.G.C.3 MGSE9-12.G.C.4 MGSE9-12.G.C.5 MGSE9-12.G.GMD.1 MGSE9-12.G.GMD.2 MGSE9-12.G.GMD.3 MGSE9-12.G.GMD.4	MGSE9-12.G.GPE.1 MGSE9-12.G.GPE.4 MGSE9-12.G.GPE.5 MGSE9-12.G.GPE.6 MGSE9-12.G.GPE.7 MGSE9-12.G.MG.1 MGSE9-12.G.MG.2 MGSE9-12.G.MG.3	MGSE9-12.S.CP.1 MGSE9-12.S.CP.2 MGSE9-12.S.CP.3 MGSE9-12.S.CP.4 MGSE9-12.S.CP.5 MGSE9-12.S.CP.6 MGSE9-12.S.CP.7
	Approaches To Learning Instructional Strategies	• Make inferences and draw conclusions • Understand and use mathematical notation • Apply skills and knowledge in unfamiliar situations	● Practice observing carefully in order to recognize problems ● Combine knowledge, understanding, and skills to create products or solutions.	● Identify trends and forecast possibilities ● Collect, record, and verify data
	Statement of Inquiry	Generalizing patterns in the world can lead to recognizing broader relationships.	Relationships is used to identify and understand connections within scientific and technical innovation through real-world modeling.	Logic is used to generalize and justify new concepts in scientific and technical innovation while incorporating real-world principles.
	Global Context	Orientation in space and time	Scientific and Technical Innovation - Systems, models, methods; products, processes and solutions	Scientific and Technical Innovation
	Key Concepts	Relationships	Relationships	Logic
	Related Concepts	Generalization Measurement Pattern	Model	Generalization Justification
	Design Cycle Transdisciplinary	Math 5E Lesson Structure: Engage Explore Explain Extend Evaluate	Math 5E Lesson Structure: Engage Explore Explain Extend Evaluate	Math 5E Lesson Structure: Engage Explore Explain Extend Evaluate

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	MYP Assessments/ Performance Tasks	Common Unit Quiz Common Unit Tests Test 1 – Circles (angles, tangents) Test 2 – Cumulative MYP Assessment – Rubric B MYP Assessment – Rubric C	Common Unit Quizzes Common Unit Test MYP Assessment – Rubric C MYP Assessment – Rubric A MYP Assessment - Rubric D	Common Unit Quiz Common Unit Test
	Differentiation For Tiered Learners	● SWD/504- Accommodations provided ● ELL- Five Principle ELL Curriculum Framework and Vocabulary Supports ● Intervention Support- Re-teaching Activities in Small Groups with Progress Monitoring ● Extensions- Enrichment Tasks and Projects ● Use of manipulatives ● Chunking of material & focus on power standards ● Guided notes with pictorial representations ● Interactive Notebooks ● Scaffolded lessons	● SWD/504- Accommodations provided ● ELL- Five Principle ELL Curriculum Framework and Vocabulary Supports ● Intervention Support- Re-teaching Activities in Small Groups with Progress Monitoring ● Extensions- Enrichment Tasks and Projects ● Use of manipulatives ● Chunking of material & focus on power standards ● Guided notes with pictorial representations ● Interactive Notebooks ● Scaffolded lessons	● SWD/504- Accommodations provided ● ELL- Five Principle ELL Curriculum Framework and Vocabulary Supports ● Intervention Support- Re-teaching Activities in Small Groups with Progress Monitoring ● Extensions- Enrichment Tasks and Projects ● Use of manipulatives ● Chunking of material & focus on power standards ● Guided notes with pictorial representations ● Interactive Notebooks ● Scaffolded lessons
	Course Levels	**Marietta City Schools offers Enhanced, Honors, Accelerated, and AP classes to provide differentiated learning experiences for students.**		