

## Accelerated Geo B/Algebra II Subject Group Overview

Unit Name	Quadratics Revisited (DOE Unit 4)	Circles & Volume (DOE Unit 1)	Algebraic Connections (DOE Unit 2)	Applications of Probability (DOE Unit 3)
<b>Time Frame</b>	<b>3 Weeks</b>	<b>4 Weeks</b>	<b>2 Weeks</b>	<b>3 Weeks</b>
<b>Standards</b>	MGSE9-12.N.CN.1, 2, 3, 7, 8 MGSE9-12.A.REI.4, 4b	MGSE9-12.G.C.1, 2, 3, 4, 5 MGSE9-12.G.GMD.1, 2, 3 MGSE9-12.A.CED. 4	MGSE9-12.G.GPE.1, 4, 5, 6, 7 MGSE9-12.G.MG.1, 2, 3 MGSE9-12.G.GMD.4 MGSE9-12.G.CO.11	MGSE9-12.S.CP.1, 2, 3, 4, 5, 6, 7
<b>Approaches To Learning Instructional Strategies</b>	<ul style="list-style-type: none"> <li>• Give and receive meaningful feedback</li> <li>• Negotiate ideas and knowledge with peers and teachers</li> <li>• Use and interpret a range of discipline-specific terms and symbols</li> <li>• Draw reasonable conclusions and generalizations</li> <li>• Apply existing knowledge to generate new ideas, products or processes</li> <li>• Apply skills and knowledge in unfamiliar situations</li> </ul>	<ul style="list-style-type: none"> <li>• Make inferences and draw conclusions</li> <li>• Understand and use mathematical notation</li> <li>• Apply skills and knowledge in unfamiliar situations</li> </ul>	<ul style="list-style-type: none"> <li>• Practice observing carefully in order to recognize problems</li> <li>• Combine knowledge, understanding, and skills to create products or solutions.</li> </ul>	<ul style="list-style-type: none"> <li>• Identify trends and forecast possibilities</li> <li>• Collect, record, and verify data</li> </ul>
<b>Statement of Inquiry</b>	Modeling using a logical process helps us to understand the world.	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.
<b>Global Context</b>	Scientific and Technological Innovations  Exploration: Systems, Models, Methods	Orientation in space and time	Scientific and Technical Innovation  Systems, models, methods; products, processes and solutions	Scientific and Technical Innovation
<b>Key Concept</b>	Logic	Relationships	Relationships	Logic
<b>Related Concepts</b>	Generalization Model Representation	Generalization; Measurement; Pattern	Model	Generalization Justification

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<b>Design Cycle</b>	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	Math 5E Lesson Structure: Engage Explore Explain Extend Evaluate
<b>MYP Assessments/ Performance Tasks</b>	Common Unit Quiz Common Unit Test ● Test: Quadratics MYP Rubric B, D	Common Unit Quiz Common Unit Tests ● Test 1 – Circles ● Test 2 - Cumulative	Common Unit Quiz Common Unit Test	Common Unit Quiz Common Unit Project & Test: ● Project: Probability ● Test: Cumulative MYP Rubric A
<b>Level Specific Differentiation</b>	<ul style="list-style-type: none"> <li>● SWD/504- Accommodations provided</li> <li>● Extensions- Enrichment Tasks and Projects</li> </ul>	<ul style="list-style-type: none"> <li>● SWD/504- Accommodations provided</li> <li>● Extensions- Enrichment Tasks and Projects</li> </ul>	<ul style="list-style-type: none"> <li>● SWD/504- Accommodations provided</li> <li>● Extensions- Enrichment Tasks and Projects</li> </ul>	<ul style="list-style-type: none"> <li>● SWD/504- Accommodations provided</li> <li>● Extensions- Enrichment Tasks and Projects</li> </ul>

## Accelerated II Subject Group Overview

Unit Name	Polynomials (DOE Unit 5 & 6)	Radical & Rational Equations and Functions (DOE Unit 7)	Exponentials and Logs; Compositions; Sequences (DOE Unit 8)
Time Frame	7 Weeks	5 Weeks	4 Weeks
Standards	MGSE9-12.N.RN.1, 2 MGSE9-12.A.APR.1, 2, 3, 4, 5, 6 MGSE9-12.F.BF.1, 1b, 1c MGSE9-12.N.CN.9 MGSE9-12.CED.1, 2, 3 MGSE9-12.A.SSE.1, 1a, 1b, 2 MGSE9-12.A.IF4, 7, 7c	MGSE9-12.A.APR.7 MGSE9-12.A.REI.2 MGSE9-12.A.CED.1, 2 MGSE9-12.F.IF.4, 5, 7, 7b, 7d	MGSE9-12.F.BF.1c, 3, 4, 4a, 4b, 4c, 5 MGSE9-12.F.IF.6, 7, 7e, 8, 8b, 9 MGSE9-12.REI.11 MGSE9-12.F.LE.4 MGSE9-12.A.SSE.3, 3c, 4 MGSE9-12.CED. 2, 4
Approaches To Learning Instructional Strategies	<ul style="list-style-type: none"> <li>Communication Skills – use a variety of speaking techniques to communicate, interpret models, negotiate ideas with peers and teacher</li> <li>Collaboration Skills – work in teams to help others succeed, give and receive meaningful feedback, encourage others to contribute to group discussion</li> </ul>	<ul style="list-style-type: none"> <li>Give and receive meaningful feedback</li> <li>Take effective notes in class</li> <li>Read word problems critically and for comprehension</li> <li>Use a variety of speaking techniques to communicate with peers and teacher</li> <li>Use and interpret a range of discipline-specific terms and symbols</li> <li>Understand and use mathematical notation</li> <li>Make inferences and draw conclusions</li> </ul>	<ul style="list-style-type: none"> <li>Give and receive meaningful feedback</li> <li>Take effective notes in class</li> <li>Read critically and for comprehension to solve word problems</li> <li>Organize and depict information logically</li> <li>Understand and use mathematical notation</li> </ul>
Statement of Inquiry	Models are used to identify and solve relationships within problems.	Models are used to identify and solve relationships within problems.	Models are used to identify and solve relationships within problems.
Global Context	Scientific & Technical Innovation	Scientific and Technical Innovation	Scientific and Technical Innovation
Key Concept	Relationships	Relationships	Relationships
Related Concepts	Generalization; Model	Pattern Model	Generalization, patterns, model
Design Cycle	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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<b>MYP Assessments/ Performance Tasks</b>	Common Unit Quiz Common Unit Project & Test – <ul style="list-style-type: none"> <li>● Project: Polynomials</li> <li>● Test: Cumulative</li> </ul> MYP B, C, D	Common Unit Quiz (2) Common Unit Test MYP D	Common Unit Quiz (2) Common Unit Test MYP B
<b>Level Specific Differentiation</b>	<ul style="list-style-type: none"> <li>● SWD/504- Accommodations provided</li> <li>● Extensions- Enrichment Tasks and Projects</li> </ul>	<ul style="list-style-type: none"> <li>● SWD/504- Accommodations provided</li> <li>● Extensions- Enrichment Tasks and Projects</li> </ul>	<ul style="list-style-type: none"> <li>● SWD/504- Accommodations provided</li> <li>● Extensions- Enrichment Tasks and Projects</li> </ul>
<b>Course Levels</b>	<b>Marietta City Schools offers Enhanced, Honors, Accelerated, and AP classes to provide differentiated learning experiences for students.</b>		