

### MCS MYP Enhanced Algebra: C&C (Grade 8) Subject Group Overview

Unit Name	U1: Modeling Linear Functions	U2: Analyzing Systems of Linear Equations and Inequalities	U3: Investigating Rational & Irrational Numbers	U4: Modeling and Analyzing Quadratic Functions	U5: Modeling and Analyzing Exponential Expressions, Equations, and Functions	U6: Investigating Data and Statistical Reasoning	U7: Algebraic Connections to Geometric Concepts	U8: Culminating Capstone Unit
<b>Time Frame</b>	5- 6 weeks	3- 4 weeks	2-3 weeks	5- 6 weeks	4- 5 weeks	3- 4 weeks	3 – 4 weeks	1-2 weeks
<b>Standards</b>	8.PAR.3 8.PAR.4 8.FGR.5 A.FGR.2 A.MM.1 A.MP.1-8 MCS Gifted Standards: MCS.Gifted.S3B.	8.FGR.7 A.PAR.4 A.MM.1 A.MP.1-8  MCS Gifted Standards: MSC.Gifted.S2B.	8.NR.1 8.NR.2 A.NR.5 A.MM.1 A.MP.1-8  MCS Gifted Standards: MSC.Gifted.S2B. MSC.Gifted.S3B.	A.PAR.6 A.FGR.7 A.MM.1 A.MP.1-8  MCS Gifted Standards: MSC.Gifted.S3B. MSC.Gifted.S4B.	A.PAR.8 A.FGR.9 A.MM.1 A.MP.1-8  MCS Gifted Standards: MSC.Gifted.S2B. MSC.Gifted.S4B.	8.FGR.6 A.DSR.10 A.MM.1 A.MP.1-8  MCS Gifted Standards: MSC.Gifted.S2B. MSC.Gifted.S3B. MSC.Gifted.S4B.	8.GSR.8 A.GSR.3 A.MM.1 A.MP.1-8  MCS Gifted Standards: MSC.Gifted.S3B. MSC.Gifted.S4B. MSC.Gifted.S5B MSC.Gifted.S6B.	ALL STANDARDS A.MP.1-8
<b>Approaches To Learning Instructional Strategies</b>	<b>Category:</b> Communication Skills <b>Cluster:</b> Communication <b>Skill Indicator:</b> Make Inferences and Draw Conclusions	<b>Category:</b> Communication Skills <b>Cluster:</b> Communication <b>Skill Indicator:</b> Give and receive meaningful feedback.	<b>Category:</b> Self-Management Skills <b>Cluster:</b> Reflection <b>Skill Indicator:</b> Perseverance - demonstrate persistence and perseverance	<b>Category:</b> Self-Management Skills <b>Cluster:</b> Affective <b>Skill Indicator:</b> Demonstrate persistence and perseverance	<b>Category:</b> Self-Management Skills <b>Cluster:</b> Organization <b>Skill Indicator:</b> Use appropriate strategies for organizing complex information	<b>Category:</b> Communication Skills <b>Cluster:</b> Communication <b>Skill Indicator:</b> Negotiate ideas and knowledge with peers and teachers	<b>Category:</b> Thinking Skills <b>Cluster:</b> Creative-Thinking <b>Skill Indicator:</b> Apply existing knowledge to generate new ideas, products or process	Summary of all ATL's will be used.
<b>Statement of Inquiry</b>	Students will interpret real life scenarios to enhance their understanding of patterns.	Analyzing systems helps us make logical decisions.	Exploring the relationships between rational and irrational numbers through models can enhance our understanding of their properties and applications in scientific and technical innovation.	Investigating the relationship between quadratic functions and their models through representation and systems using scientific and technical innovations can lead to deeper understanding of their behavior and applications.	Patterns and representations create relationships that can be used to determine opportunity and risk.	Exploring multiple representations of quantifiable data using models enhances understanding of relationships.	Generalizing relationships between measurements can develop principles, processes and solutions.	

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<b>Global Context</b>	Identities and Relationships	Scientific and Technical Innovation	Scientific and Technical Innovation	Scientific and Technical Innovation	Scientific and Technical Innovation	Scientific and Technical Innovation	Orientation in time and space	
<b>Key Concepts</b>	Form	Logic	Relationships	Relationships	Logic	Relationships	Form	
<b>Related Concepts</b>	Change, Model, Pattern	Justification, Systems	Equivalence, Models	Representation, Systems, and Models	Generalization, Pattern, Representation	Change, Space, Quantity	Measurement, Models	
<b>Design Cycle Transdisciplinary</b>	<ul style="list-style-type: none"> <li>Inquiring and Analyzing</li> <li>Developing Ideas</li> <li>Creating a Solution</li> <li>Evaluating</li> </ul>	<ul style="list-style-type: none"> <li>Inquiring and Analyzing</li> <li>Developing Ideas</li> <li>Creating a Solution</li> <li>Evaluating</li> </ul>	<ul style="list-style-type: none"> <li>Inquiring and Analyzing</li> <li>Developing Ideas</li> <li>Creating a Solution</li> <li>Evaluating</li> </ul>	<ul style="list-style-type: none"> <li>Inquiring and Analyzing</li> <li>Developing Ideas</li> <li>Creating a Solution</li> <li>Evaluating</li> </ul>	<ul style="list-style-type: none"> <li>Inquiring and Analyzing</li> <li>Developing Ideas</li> <li>Creating a Solution</li> <li>Evaluating</li> </ul>	<ul style="list-style-type: none"> <li>Inquiring and Analyzing</li> <li>Developing Ideas</li> <li>Creating a Solution</li> <li>Evaluating</li> </ul>	<ul style="list-style-type: none"> <li>Inquiring and Analyzing</li> <li>Developing Ideas</li> <li>Creating a Solution</li> <li>Evaluating</li> </ul>	<ul style="list-style-type: none"> <li>Inquiring and Analyzing</li> <li>Developing Ideas</li> <li>Creating a Solution</li> <li>Evaluating</li> </ul>
<b>MYP Assessments/ Performance Tasks</b>	Unit 1 CFA Unit 1 SA Unit 1 ReTest  MYP Assessment: Catering Project Criteria A (Knowing and Understanding), Criteria B (Investigating Patterns), Criteria C (Communication), Criteria D (Applying Math to real-world context)	<i>Unit 2 CFA</i> <i>Unit 2 SA</i> <i>Unit 2 ReTest</i>  <i>MYP Assessment:</i> (DOE) Solutions to Systems of Linear Inequalities in One Variable Criteria D - Applying Math to real-world context	<i>Unit 3 CFA</i> <i>Unit 3 SA</i> <i>Unit 3 ReTest</i>  <i>MYP Assessment:</i> Evaluating Statements about Irrational and Rational Numbers (DOE) Criteria C (Communication)	<i>Unit 4 CFA</i> <i>Unit 4 SA</i> <i>Unit 4 ReTest</i>  <i>MYP Assessment:</i> Mid Unit Quiz Criteria A (Knowing and Understanding), Patterns Criteria B (Investigating Patterns) DOE Seeing Structure in Expressions Diagnostic Criteria C (Communication),	Unit 5 CFA Unit 5 SA Unit 5 ReTest  <i>MYP Assessment:</i> Criteria A (Knowing and Understanding), DOE Paper Folding	Unit 6 CFA Unit 6 SA Unit 6 ReTest  <i>MYP Assessment:</i> Penny a Day Criteria C (Communication),	Unit 7 CFA Unit 7 SA Unit 7 ReTest  <i>MYP Assessment:</i> City Design Criteria D (Applying Math to real-world context) -	Grade 8 EOG Algebra Concepts and Connections EOC

## MCS MYP Enhanced Algebra: C&C (Grade 8) Subject Group Overview

<b>Differentiation For Tiered Learners</b>	Marietta City Schools teachers provide specific differentiation of learning experiences for all students. Details for differentiation for learning experiences are included on the district unit planners.
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