

MCS MYP Grade 8 Math Subject Group Overview

Unit Name	Unit 1 – Transformations, Congruence, and Similarity	Unit 2 – Exponents	Unit 3 – Geometric Applications of Exponents	Unit 4 - Functions	Unit 5 – Linear Functions	Unit 6 – Linear Models and Tables	Unit 7 – System of Equations
Time Frame	5 weeks	5 weeks	4 weeks	3 weeks	4 weeks	4 weeks	4 weeks
Standards	MGSE8.G.1 MGSE8.G.2 MGSE8.G.3 MGSE8.G.4 MGSE8.G.5	MGSE8.EE.1 MGSE8.EE.2 (evaluating) MGSE8.EE.3 MGSE8.EE.4 MGSE8.EE.7 MGSE8.EE.7a MGSE8.EE.7b MGSE8.NS.1 MGSE8.NS.2	MGSE8.G.6 MGSE8.G.7 MGSE8.G.8 MGSE8.G.9 MGSE8.EE.2 (equations)	MGSE8.F.1 MGSE8.F.2	MGSE8.EE.5 MGSE8.EE.6 MGSE8.F.3	MGSE8.F.4 MGSE8.F.5 MGSE8.SP.1 MGSE8.SP.2 MGSE8.SP.3 MGSE8.SP.4	MGSE8.EE.8 MGSE8.EE.8a MGSE8.EE.8b MGSE8.EE.8c
Approaches To Learning Instructional Strategies	Give and receive meaningful feedback Manage an resolve conflict and work collaboratively in teams	Give and receive meaningful feedback Bring necessary equipment and supplies to class	Give and receive meaningful feedback Draw reasonable conclusions and generalizations	Give and receive meaningful feedback	Give and receive meaningful feedback Draw reasonable conclusions and generalizations	Give and receive meaningful feedback	Give and receive meaningful feedback Manage an resolve conflict and work collaboratively in teams
Statement of Inquiry	Modeling the changes that occur in geometric forms helps us to understand art and design.	Various numeric forms can be used to enhance our understanding of scientific principles.	People can explore relationships through measurement	Modeling information in different forms helps us make decisions	Modeling the change in relationships can impact decision-making.	The choices we make affect our health and well-being.	Analyzing systems helps us make logical decisions.

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Global Context	Scientific and Technical Innovation	Scientific and Technical Innovation	Orientation in space and time	Globalization and sustainability	Globalization and sustainability	Identities and Relationships	Scientific and Technical Innovation
Key Concepts	Form	Form	Relationships	Form	Relationships	Logic	Logic
Related Concepts	Justification, Model	Justification, Simplification	Measurement, Space	Model Representation	Model Representation	Generalization Model	Justification System
Design Cycle Transdisciplinary	Inquiring and Analyzing Developing Ideas Creating a Solution Evaluating	Inquiring and Analyzing Developing Ideas Creating a Solution Evaluating	Inquiring and Analyzing Developing Ideas Creating a Solution Evaluating	Inquiring and Analyzing Developing Ideas Creating a Solution Evaluating	Inquiring and Analyzing Developing Ideas Creating a Solution Evaluating	Inquiring and Analyzing Developing Ideas Creating a Solution Evaluating	
MYP Assessments/ Performance Tasks	Unit 1 CFA Unit 1 SA Unit 1 ReTest MYP Assessment: Criteria B (Investigating Patterns)	Unit 2 CFA Unit 2 SA Unit 2 ReTest <i>MYP Assessment :</i> Criteria A (Knowing and Understanding), Criteria B (Investigating Patterns), Criteria C (Communication), Criteria D (Applying Math to real-world context)	Unit 3 CFA Unit 3 SA Unit 3 ReTest <i>MYP Assessment :</i> Criteria A (Knowing and Understanding)	<i>Unit 4 CFA</i> <i>Unit 4 SA</i> <i>Unit 4 ReTest</i> <i>MYP Assessment :</i> Criteria B (Investigating Patterns), Criteria C (Communication)	<i>Unit 5 CFA</i> <i>Unit 5 SA</i> <i>Unit 5 ReTest</i> <i>MYP Assessment :</i> Criteria A (Knowing and Understanding), Criteria B (Investigating Patterns), Criteria C (Communication), Criteria D (Applying Math to real-world context)	<i>Unit 6 CFA</i> <i>Unit 6 SA</i> <i>Unit 6 ReTest</i> <i>MYP Assessment :</i> Criteria A (Knowing and Understanding), Criteria D (Applying Math to real-world context)	<i>Unit 7 CFA</i> <i>Unit 7 SA</i> <i>Unit 7 ReTest</i> <i>MYP Assessment :</i> Criteria D (Applying Math to real-world context)

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