MCS MYP Accelerated Grade 7/8 Subject Group Overview

Unit Name	**Unit 1** Investigating Probability	**Unit 2** Exploring Irrational Numbers, Integer Exponents, and Scientific Notation	**Unit 3** Investigating LInear Expressions, Equations, and Inequalities in One Variable	**Unit 4** Modeling Linear Relationships and Functions	**Unit 5** Investigating Data & Statistical Reasoning	**Unit 6** Real-Life Phenomena Explored Through Systems of Linear Equations	**Unit 7** Making Relevant Connections with Geometry	**Unit 8** Exploring Geometric Relationships	**Unit 9** Culminating Capstone Unit
Time Frame	**3 weeks**	**4 weeks**	**4 weeks**	**4 Weeks**	**7 weeks**	**5 Weeks**	**4 Weeks**	**3 Weeks**	**2 Weeks**
Standards	7.PR.6 7.MP.1-8 Gifted: Strand 2, 3, 4	8.NR.1 8.NR.2 8.MP.1-8 Gifted: Strand 2, 3, 4	8.PAR.3 8.MP.1-8 Gifted: Strand 2, 3, 4	7.PAR.4 (5,7,8) 8.PAR.4 8.FGR.5 8.MP.1-8 Gifted: Strand 2, 3, 4	8.FGR.6 8.MP.1-8. Gifted: Strand 2, 3, 4	8.FGR.7 8.MP.1-8 Gifted: Strand 2, 3, 4	7.GSR.5 7.MP.1-8 Gifted: Strand 2, 3, 4	8.GSR.8 8.MP.1-8 Gifted: Strand 2, 3, 4	All course standards Gifted: Strand 2, 3, 4

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	Approaches To Learning Instructional Strategies	**Category:** Social **Cluster:** Collaboration Skills **Skill Indicator:** Give and receive meaningful feedback. **Category:** Self-management **Cluster:** Organization, Affective, & Reflection Skills **Skill Indicator:** Keep an organized and logical system of information files/notebooks.	**Category:** Social **Cluster:** Collaboration Skills **Skill Indicator:** Give and receive meaningful feedback. **Category:** Self Management **Cluster:** Organization Skills **Skill Indicator:** Bring necessary equipment and supplies to class.	**Category:** Social **Cluster:** Collaboration Skills **Skill Indicator:** Give and receive meaningful feedback. **Category:** Thinking **Cluster:** Creative Thinking Skills **Skill Indicator:** Draw reasonable conclusions and generalizations.	**Category:** Social **Cluster:** Collaboration Skills **Skill Indicator:** Give and receive meaningful feedback.	**Category:** Social **Cluster:** Collaboration Skills **Skill Indicator:** Give and receive meaningful feedback.	**Category:** Social **Cluster:** Collaboration Skills **Skill Indicator:** Give and receive meaningful feedback. **Category:** Social **Cluster:** Collaboration Skills **Skill Indicator:** Manage and resolve conflict and work collaboratively in teams.	**Category:** Social **Cluster:** Collaboration Skills **Skill Indicator:** Give and receive meaningful feedback. **Category:** Self-management **Cluster:** Organization, Affective, & Reflection Skills **Skill Indicator:** Keep an organized and logical system of information files/notebooks	**Category:** Social **Cluster:** Collaboration Skills **Skill Indicator:** Give and receive meaningful feedback. **Category:** Thinking **Cluster:** Creative Thinking Skills **Skill Indicator:** Draw reasonable conclusions and generalizations.	**Category:** Social **Cluster:** Collaboration Skills **Skill Indicator:** Give and receive meaningful feedback. **Category:** Thinking **Cluster:** Critical Thinking, Creative Thinking & Transfer **Skill Indicator:** Use models and simulations to explore complex systems and issues
	Statement of Inquiry	Decisions reached through logic may not always reflect beliefs about fairness.	Various numeric forms can be used to enhance our understanding of scientific principles.	Modeling the change in relationships can impact decision-making.	Modeling information in different forms helps us make decisions.	The choices we make affect our health and well-being.	Analyzing systems helps us make logical decisions.	We can use formulas to model structures and relationships in the real world.	People can explore relationships through measurement	A logical process helps to model and generalize the natural world.
	Global Context	Fairness and Development	Scientific and Technical Innovation	Globalization and sustainability	Globalization and sustainability	Identities and Relationships	Scientific and Technical Innovation	Orientation in space and time	Orientation in space and time	Identities and Relationships

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	Key Concepts	**Logic** A method of reasoning and a system of principles used to build arguments and reach conclusions.	**Form** The shape and underlying structure of an entity or piece of work, including its organization, essential nature and external appearance.	**Relationships** The connections and associations between properties, objects, people and ideas.	**Form** The shape and underlying structure of an entity or piece of work, including its organization, essential nature and external appearance.	**Logic** A method of reasoning and a system of principles used to build arguments and reach conclusions.	**Logic** A method of reasoning and a system of principles used to build arguments and reach conclusions.	**Form** The shape and underlying structure of an entity or piece of work, including its organization, essential nature and external appearance.	**Relationships** The connections and associations between properties, objects, people and ideas.	**Logic** A method of reasoning and a system of principles used to build arguments and reach conclusions.
	Related Concepts	Justification, Model, Generalization	Justification and Simplification	Model Representation	Model, Representation	Generalization, Model	Justification, System	Measurement, Space	Measurement, Space	Generalization
	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	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

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	MYP Assessments / Performance Tasks	*Unit 1 CFA* *Unit 1 SA* *MYP Assessment:Topic 7 Performance Assessment* *Criteria A: (Knowledge and Understanding)* *Criteria C: (Communication)*	*Unit 2 CFA* *Unit 2 SA* *MYP Assessment:*Topic 1 Performance Assessment (Omit #2) *Criteria A: (Knowledge and Understanding)* *Criteria B (Investigating Patterns)* *Criteria C: (Communication)* *Criteria D Applying Mathematics in real life contexts*	*Unit 3 CFA* *Unit 3 SA* *MYP Assessment: Catering Project* *Criteria A: (Knowledge and Understanding)* *Criteria B (Investigating Patterns)* *Criteria C: (Communication)* *Criteria D Applying Mathematics in real life contexts*	*Unit 4 CFA* *Unit 4 SA* *MYP Assessment:* Catering Project *Criteria:* Criterion A: Knowledge and Understanding Criteria B: Investigating Patterns Criteria C: Communication in Mathematics Criterion D: Applying Mathematics In real life contexts.	*Unit 5 CFA* *Unit 5 SA* *MYP Assessment:*Topic 4 Performance Assessment Form B #1 only OR GaDOE Walking Race *Criteria* B: Investigating Patterns	*Unit 6 CFA* *Unit 6 SA* *MYP Assessment::* Task-Parallel and Perpendicular Lines Part 2 (New Version) *Criteria D Applying Mathematics in real life contexts*	*Unit 7 CFA* *Unit 7 SA* *MYP Assessment: Pizza Task* *Criteria:* Criterion A: Knowing and Understanding Criterion C: Communication in Mathematics	*Unit 8 CFA* *Unit 8 SA* *MYP Assessment:* Pythagorean Theorem Choice Board *Criteria:* Criterion A: Knowing and Understanding	*Grade 7 EOG*
	Differentiation For Tiered Learners	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.								