MCS Advanced Studies Grade 6 Math Subject Group Overview

Unit Name	Unit 1- Number System Fluency	Unit 2- Rational Explorations: Numbers and their Opposites (GaDOE U7)	Unit 3- Expressions	Unit 4- One-Step Equations and Inequalities	Unit 5- Rate, Ratio and Proportional Reasoning Using Equivalent Fractions (GaDOE U2)	Unit 6- Area and Volume (GaDOE U5)	Unit 7- Statistics (GaDOE U6)	Unit 8- Show What we Know
Time Frame	6 Weeks	4 Weeks	6 Weeks	5 Weeks	5 Weeks	4 Weeks	4 Weeks	2 Weeks
Standards	MGSE6.NS.1 MGSE6.NS.2 MGSE6.NS.3	MGSE6.NS.5 MGSE6.NS.6 MGSE6.NS.6a MGSE6.NS.6b MGSE6.NS.6c MGSE6.NS.7 MGSE6.NS.7a MGSE6.NS.7b MGSE6.NS.7c MGSE6.NS.7d MGSE6.NS.8 MGSE6.G.3	MGSE6.EE.1 MGSE6.EE.2 MGSE6.EE.2a MGSE6.EE.2b MGSE6.EE.2c MGSE6.EE.3 MGSE6.EE.4 MGSE6.NS.4	MGSE6.EE.5 MGSE6.EE.6 MGSE6.EE.7 MGSE6.EE.8 MGSE6.EE.9 MGSE6.RP.3 MGSE6.RP.3a MGSE6.RP.3b MGSE6.RP.3c MGSE6.RP.3d	MGSE6.RP.1 MGSE6.RP.2 MSGE6.RP.3 MGSE6.RP.3a MGSE6.RP.3b MGSE6.RP.3c MGSE6.RP.3d	MGSE6.G.1 MGSE6.G.2 MGSE6.G.4	MGSE6.SP.1 MGSE6.SP.2 MGSE6.SP.3 MGSE6.SP.4 MGSE6.SP.5	All standards
Approaches To Learning Instructional Strategies	**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:** Communication **Cluster:** Communication **Skill Indicator:** Organize and depict information logically	**Category:** Social **Cluster:** Collaboration Skills **Skill Indicator:** Give and receive meaningful feedback. **Category:** Communication **Cluster:** Communication **Skill Indicator:** Read critically and for comprehension	**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	**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	**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:** Self-management **Cluster:** Organization, Affective, & Reflection Skills **Skill Indicator:** Organize and depict information logically	**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

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	Statement of Inquiry	Making decisions can be improved by using a model to represent relationships.	Modeling using a logical process helps us to understand the world	Expressions, equations and inequalities communicate real world scenarios through symbols, numbers, and algebraic thinking.	Expressions, equations and inequalities communicate real world scenarios through symbols, numbers, and algebraic thinking.	By examining relationships and patterns, we can make predictions in real world situations.	Understanding simple shapes helps us enhance our environments.	Gathering and modeling data provides for a better understanding of a population.	A logical process helps to model and generalize the natural world.
	Global Context	**Globalization and Sustainability**	**Identities and Relationships** .	**Orientation in Time and Space**	**Globalization and Sustainability**	**Personal and Cultural Expression**	**Orientation in Time and Space Natural and human landscapes and resources**	**Globalization and Sustainability**	**Identities and Relationships**
	Key Concepts	**Logic** A method of reasoning and a system of principles used to build arguments and reach conclusions.	**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.	**Logic** A method of reasoning and a system of principles used to build arguments and reach conclusions.	**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.
	Related Concepts	Model, Representation	Equivalence, Generalization	Model, pattern, measurement	Model, pattern, measurement	Pattern, model, system	Measurement, space, model	Justification, Model	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

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	Tasks that Promote Reasoning, Critical Thinking and Problem Solving	Tasks specifically aligned to **NS.1 and NS.3** to promote reasoning, critical thinking and elicit problem solving.	Tasks specifically aligned to **NS. 6**, **NS.7** and **NS.8** to promote reasoning, critical thinking and elicit problem solving.	Tasks specifically aligned to **EE.2** to promote reasoning, critical thinking and elicit problem solving.	Tasks specifically aligned to **EE.7, EE.9 and RP. 3** to promote reasoning, critical thinking and elicit problem solving.	Tasks specifically aligned to **RP.3** to promote reasoning, critical thinking and elicit problem solving.	Tasks specifically aligned to **G.1** and **G.2** to promote reasoning, critical thinking and elicit problem solving.	Tasks specifically aligned to **SP.5** to promote reasoning, critical thinking and elicit problem solving.	Tasks specifically aligned to culminate several standards for students to apply and extend skills cultivated throughout the course.
	MYP Assessments/ Performance Tasks	Unit 1 CFA Unit 1 SA *MYP Assessment* Criteria A (Knowing and Understanding) and Criteria D (Applying Math to real-world context)	Unit 2 CFA Unit 2 SA *MYP Assessment* Criteria A (Knowing and Understanding) and Criteria D (Applying Math to real-world context)	Unit 3 CFA Unit 3 SA *MYP Assessment* Criteria B: Investigation Patterns	Unit 4 CFA Unit 4 SA *MYP Assessment* Criteria B: Investigation Patterns.	Unit 5 CFA Unit 5 SA *MYP Assessment* Criteria C: Communication	Unit 5 CFA Unit 5 SA *MYP Assessment* Criteria D: Applying Math to real-world context	Unit 7 CFA Unit 7 SA *MYP Assessment* Criteria C: Communication	Grade 6 EOG
	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.							