## MCS MYP Grade 8 Mathematics Subject Group Overview

| Unit Name                                       | Investigating Linear<br>Expressions, Equations,<br>and Inequalities in One<br>Variable   | Modeling Linear<br>Relationships & Functions  | Investigating Data &<br>Statistical Reasoning   | Real-Life Phenomena<br>Explored Through Systems<br>of Linear Equations  | Irrationals, Integer<br>Exponents and Scientific<br>Notation  | Exploring Geometric<br>Relationships  | Culminating Capstone<br>Unit   |
|---|--|---|---|---|---|---|--|
| Time<br>Frame                                   | 6 Weeks  | 5 -6 Weeks  | 3 - 4 Weeks   | 6 -7 Weeks  | 5 -6 Weeks  | 3 -4 Weeks  | 2 - 3 Weeks  |
| Standards                                       | 8.PAR.3<br>8.MP. 1-8   | 8.PAR.4<br>8.FGR.5<br>8.MP.1-8<br>*7.PAR.4*   | 8.FGR.6<br>8.MP.1-8   | 8.FGR.7<br>8.MP.1-8   | 8.NR.1<br>8.NR.2<br>8.MP.1-8  | 8.GSR.8<br>8.MP.1-8   | All course standards<br>8.MP.1-8   |
| Approaches To Learning Instructional Strategies | Need: Give and receive meaningful feedback Category: Thinking Cluster: Critical Thinking, Creative Thinking Skill Indicator: Analyzing and evaluating issues and ideas and Utilizing skills and knowledge in multiple contexts | Need: Draw reasonable conclusions and generalizations. Category: Thinking Cluster: Critical Thinking, Creative Thinking, Transfer Skill Indicator: Analyzing and evaluating issues and ideas and Utilizing skills, knowledge in multiple contexts, and generating novel ideas and considering new perspective | Need: Give and receive meaningful feedback Category: Research Skills Cluster: Information literacy Skill Indicator: Finding, interpreting, judging and creating information | Need: Give and receive meaningful feedback. Manage and resolve conflict and work collaboratively in teams. Category: Communication Skills Cluster: Communication Skill Indicator: Exchanging thoughts, messages and information effectively through interaction | Need: Give and receive meaningful feedback Category: Thinking Cluster: Critical Thinking Skill Indicator: Analyzing and evaluating issues and ideas and Utilizing skills and knowledge in multiple contexts | Need: Give and receive meaningful feedback Category: Research Skills Cluster: Information literacy Skill Indicator: Finding, interpreting, judging and creating information | Need: Draw reasonable conclusions and generalizations. Category: Thinking Cluster: Critical Thinking, Creative Thinking, Transfer Skill Indicator: Analyzing and evaluating issues and ideas and Utilizing skills, knowledge in multiple contexts, and generating novel ideas and considering new perspective  |
| Statement of Inquiry                            | Interpreting real-life scenarios will enhance our understanding of patterns.   | 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.  | Various numeric forms can be used to enhance our understanding of scientific principles.  | People can explore relationships through measurement.   | , soposition of the soposition |
| Global<br>Context                               | Identities and<br>Relationships  | Globalization and sustainability  | Identities and<br>Relationships   | Scientific and Technical<br>Innovation  | Scientific and Technical<br>Innovation  | Orientation in space and time   |  |
| Key Concepts                                    | Patterns   | Relationships   | Logic   | Logic   | Form  | Relationships   |  |

Published: 8,2024 Resources, materials, assessments not linked to SGO or unit planner will be reviewed at the local school level.

## MCS MYP Grade 8 Mathematics Subject Group Overview

| Related<br>Concepts                       | Justification, Simplification  | Measurement, Space  | Generalization Model   | Justification System   | Justification, Simplification   | Measurement, Space  |                         |
|---|--|---|--|--|---|---|-------------------------|
| Design Cycle<br>Trans-                    | Inquiring and Analyzing  | Inquiring and Analyzing   | Inquiring and Analyzing  | Inquiring and Analyzing  | Inquiring and Analyzing   | Inquiring and Analyzing   | Inquiring and Analyzing |
| disciplinary                              | Developing Ideas   | Developing Ideas  | Developing Ideas   | Developing Ideas   | Developing Ideas  | Developing Ideas  | Developing Ideas        |
|   | Creating a Solution  | Creating a Solution   | Creating a Solution  | Creating a Solution  | Creating a Solution   | Creating a Solution   | Creating a Solution     |
|   | Evaluating   | Evaluating  | Evaluating   | Evaluating   | Evaluating  | Evaluating  | Evaluating              |
| MYP Assessments/ Performance Tasks        | Unit 1 CFA Unit 1 SA Unit 1 ReTest Unit 1 MYP Project: Writing in Math - Design a Math App - Solving Equations and Inequalities  MYP Assessment: Criteria A: Knowledge and Understanding Criteria B (Investigating Patterns) | Unit 2 CFA Unit 2 SA Unit 2 ReTest Unit 2 MYP Project: Family Reunion Catering Project  MYP Assessment: 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 Unit 3 MYP Project: Savvas Topic 4 Performance Task Form A pg. 1 only  MYP Assessment: Criteria A (Knowing and Understanding), Criteria D (Applying Math to real-world context) | Unit 4 CFA Unit 4 SA Unit 4 ReTest Unit 4 MYP Project: Plan a City Project  MYP Assessment: Criteria D (Applying Math to real-world context) | Unit 5 CFA Unit 5 SA Unit 5 ReTest Unit 5 MYP Project: Savvas Topic 1 Performance Task Form B.  MYP Assessment: Criteria A (Knowing and Understanding), Criteria B (Investigating Patterns), Criteria C (Communication), Criteria D (Applying Math to real-world context) | Unit 6 CFA Unit 6 SA Unit 6 ReTest Unit 6 MYP Project: Pythagorean Theorem Fencing the Yard Project  MYP Assessment: Criteria A (Knowing and Understanding) | Grade 8 EOG             |
| Differentiation<br>For Tiered<br>Learners | Marietta City Schools teache   | ers provide specific differentiat   | ion of learning experiences fo   | r all students. Details for differ   | entiation for learning experier   | nces are included on the distri   | ct unit planners.       |