



Plus Catalog for Middle School Mathematics

About Michigan Virtual School®

Michigan Virtual School challenges students who want to learn in a different way, using the latest in technology to explore math, science, social studies, world languages and language arts in a flexible, personalized environment. Online high school and middle school courses are taught by highly-qualified, Michigan-certified teachers. *MVS*® doesn't award credit or diplomas, but students receive a completion certificate recognized by local and intermediate school districts that award credit and diplomas.

MVS is accredited by the North Central Association and the Commission on International and Trans-regional Accreditation, meaning that *MVS* courses exceed essential standards of educational quality. Some *MVS* core courses are approved by the NCAA.

What is Online Learning?

Online learning is educational content and instruction that is delivered via the Internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

MVS Plus Courses

MVS Plus courses for high school students are offered during the regular school year (semester and trimester) and in the summer. Advanced Placement courses are offered during the school year as semester length courses. Middle school *MVS Plus* courses are in the semester format; a limited number of middle school courses are offered in the summer. Click [here](#) for course pricing information.

Information about Prerequisites

Course prerequisites are listed where applicable. Prerequisites are provided as suggestions to guide course selection. It is up to the person enrolling the student to determine whether the student has the necessary background knowledge.

Course Title: ***NUMBERS A***

School Level: MS **Delivery Format:** Plus **Standards:**

Prerequisite: Middle School Math

Description: This course is the first in a two-course sequence. The course is designed to help students develop the fundamental mathematics skill necessary to prepare students for the challenge of the Michigan Algebra 1 content expectations.

Syllabus: <https://cems.mivu.org/SyllabusView.aspx?CourseID=874>

Cost (MI): \$275 **Cost (Non-MI):** \$410

SCED Code: Subject Area: (52) Mathematics (prior-to-secondary)

Course Identifier: (051) Pre-Algebra

Course Level: (B) Basic or Remedial

Suggested Credit: 0.5

Sequence: 1 of 2

Course Title: ***NUMBERS B***

School Level: MS **Delivery Format:** Plus **Standards:**

Prerequisite: Middle School Math

Description: This course is the second in a two-course sequence. The course is designed to help students develop the fundamental mathematics skill necessary to prepare students for the challenge of the Michigan Algebra 1 content expectations.

Syllabus: <https://cems.mivu.org/SyllabusView.aspx?CourseID=875>

Cost (MI): \$275 **Cost (Non-MI):** \$410

SCED Code: Subject Area: (52) Mathematics (prior-to-secondary)

Course Identifier: (051) Pre-Algebra

Course Level: (B) Basic or Remedial

Suggested Credit: 0.5

Sequence: 2 of 2

Course Title: ***Mathematics A (6th Grade)***

School Level: MS **Delivery Format:** Plus **Standards:**

Prerequisite: 5th Grade Math

Description: In the course, students will be introduced to concepts such as operations and problem solving with rational numbers, measurement techniques, number theory, geometric properties and relationships and algebraic thinking, including the use of mathematical models to represent and understand quantitative relationships. Throughout the course, students deepen their understanding of mathematical concepts and processes and work to apply this knowledge to solve real world and mathematical problems.

Syllabus: <https://cems.mivu.org/SyllabusView.aspx?CourseID=325>

Cost (MI): \$275 **Cost (Non-MI):** \$410

SCED Code: Subject Area: (52) Mathematics (prior-to-secondary)

Course Identifier: (036) Mathematics (grade 6)

Course Level: (G) General or Regular

Suggested Credit: 0.5

Sequence: 1 of 2

Course Title: *Mathematics B (6th Grade)*

School Level: MS

Delivery Format: Plus

Standards:

Prerequisite: Mathematics A - 6th Grade

Description: In the course, students will be introduced to concepts such as operations and problem solving with rational numbers, measurement techniques, number theory, geometric properties and relationships and algebraic thinking, including the use of mathematical models to represent and understand quantitative relationships. Throughout the course, students deepen their understanding of mathematical concepts and processes and work to apply this knowledge to solve real world and mathematical problems.

Syllabus: <https://cems.mivu.org/SyllabusView.aspx?CourseID=290>

Cost (MI): \$275

Cost (Non-MI): \$410

SCED Code: Subject Area: (52) Mathematics (prior-to-secondary)

Course Identifier: (036) Mathematics (grade 6)

Course Level: (G) General or Regular

Suggested Credit: 0.5

Sequence: 2 of 2

Course Title: *Mathematics A (7th Grade)*

School Level: MS

Delivery Format: Plus

Standards:

Prerequisite: 6th Grade Math

Description: This course focuses on the structure and properties of rational numbers, equivalent representations of numbers, operations and problem solving with rational numbers, number theory, measurement techniques, geometric terminology, properties and relationships, transformational geometry, algebraic thinking, statistical methods for collecting, organizing and displaying data, and an introduction to probability.

Syllabus: <https://cems.mivu.org/SyllabusView.aspx?CourseID=326>

Cost (MI): \$275

Cost (Non-MI): \$410

SCED Code: Subject Area: (52) Mathematics (prior-to-secondary)

Course Identifier: (037) Mathematics (grade 7)

Course Level: (G) General or Regular

Suggested Credit: 0.5

Sequence: 1 of 2

Course Title: *Mathematics B (7th Grade)*

School Level: MS

Delivery Format: Plus

Standards:

Prerequisite: Mathematics A - 7th Grade

Description: This course focuses on the structure and properties of rational numbers, equivalent representations of numbers, operations and problem solving with rational numbers, number theory, measurement techniques, geometric terminology, properties and relationships, transformational geometry, algebraic thinking, statistical methods for collecting, organizing and displaying data, and an introduction to probability.

Syllabus: <https://cems.mivu.org/SyllabusView.aspx?CourseID=291>

Cost (MI): \$275

Cost (Non-MI): \$410

SCED Code: Subject Area: (52) Mathematics (prior-to-secondary)

Course Identifier: (037) Mathematics (grade 7)

Course Level: (G) General or Regular

Suggested Credit: 0.5

Sequence: 2 of 2

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Course Title: *Mathematics A (8th Grade)*

School Level: MS

Delivery Format: Plus

Standards:

Prerequisite: 7th Grade Math

Description: This course focuses on the connection between mathematics and music to develop and reinforce mathematical skills and processes. Students build a mathematical foundation as they explore the evolution of music in America. The focus of the course is learning with understanding to enable students to solve real-world and mathematical problems. The mode of instruction will vary as students interact with course materials, practice skills on the web, participate in hands-on activities, and view instructional videos.

Syllabus: <https://cems.mivu.org/SyllabusView.aspx?CourseID=327>

Cost (MI): \$275

Cost (Non-MI): \$410

SCED Code: Subject Area: (52) Mathematics (prior-to-secondary)

Course Identifier: (038) Mathematics (grade 8)

Course Level: (G) General or Regular

Suggested Credit: 0.5

Sequence: 1 of 2

Course Title: *Mathematics B (8th Grade)*

School Level: MS

Delivery Format: Plus

Standards:

Prerequisite: Mathematics A - 8th Grade

Description: This course focuses on the connection between mathematics and music to develop and reinforce mathematical skills and processes. Students build a mathematical foundation as they explore the evolution of music in America. The focus of the course is learning with understanding to enable students to solve real-world and mathematical problems. The mode of instruction will vary as students interact with course materials, practice skills on the web, participate in hands-on activities, and view instructional videos.

Syllabus: <https://cems.mivu.org/SyllabusView.aspx?CourseID=292>

Cost (MI): \$275

Cost (Non-MI): \$410

SCED Code: Subject Area: (52) Mathematics (prior-to-secondary)

Course Identifier: (038) Mathematics (grade 8)

Course Level: (G) General or Regular

Suggested Credit: 0.5

Sequence: 2 of 2