



# Course Syllabus Report

## MA2890 Math 8 (MA2890)

**DISTRICT APPROVED CURRICULA:** Ready Math

**STATE COURSE CODE:** MAT038N (Mathematics (grade 8))

**GRADE LEVELS:** 8th Grade

**CREDITS:** N/A

**AVERAGE HOURS PER WEEK:** 6

**PREREQUISITES:**

**DEFAULT ALE CERTIFICATED TEACHER:** Yelena Nikolyuk

**ALE COURSE GRADING SCALE:** Teachers will regularly enter formative and/or summative assessments to communicate current levels of proficiency with the standards to provide ongoing communication with students and families.

Summative Assessments: The student will complete summative a

**DESCRIPTION** 8th grade scholars will focus on three critical areas: (1) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem.

i-Ready Classroom Mathematics (K–8) is a comprehensive core mathematics program that makes math accessible to all students. Everything works together to support teachers and empower students to connect to mathematics in new ways. The program includes:

- \*An instructional design that allows students to take ownership of their learning
- \*Rigorous practice opportunities that build students' conceptual understanding and procedural fluency
- \*In-depth reports that enable instructional decisions so teachers can help students reach their greatest potential
- \*A wide range of accessibility features to maximize usability for all students
- \*Support and resources for remote learning

**ESSENTIAL LEARNINGS:** Unit Title with Essential Questions

Exponents and Rational Numbers

- How can I apply the properties of integer exponents to generate equivalent numerical expressions?
- Why does one need to distinguish between rational and irrational numbers?

#### Functions

- Why does one need to define a function?
- How does knowing the algebraic properties of a function help to graph that function?

#### Linear Equations and Models

- Why is there a need to represent relationships between variables in more than one way?
- When is a relationship between two variables proportional?
- How does thinking of a unit rate as the slope of a line help to solve problems?
- How does one interpret the number of solutions to linear equations in one variable?
- What does it mean to solve a system of linear equations?
- How do I decide which method would be easier to use to solve a particular system of equations?

#### Geometry

- How can the Pythagorean Theorem be used to solve real world and mathematical problems?
- What are the different ways a segment (or figure) may be transformed and how do you know if a transformation produces figures that are similar or congruent to the original figure?
- Why does one need to perform transformations on figures?

**INSTRUCTIONAL MATERIALS NEEDED:** Internet access, computer, (printer, printer paper and ink if needed), modern OS/software/web browser, headphones with microphone- if not built into computer, web cam for virtual sessions, and possible assessments.

## SYLLABUS

### ALE COURSE OBJECTIVES

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### **ALE COURSE STANDARDS**

<https://tinyurl.com/Math8-FW-Standards-2021>

#### **LEARNING REQUIREMENTS**

**Weekly Work Completion:** Scholars will submit original work in all classes each week.

**Original Work Submissions:** Scholars will only submit their original work. If a scholar uses outside sources in the creation of their original work, citations must be present in the format requested by their teacher.

**Weekly Communication:** Scholars will communicate weekly with their teachers regarding their academic progress.

**Functioning Technology/Required Materials:** Scholars will always have constant and consistent access to the functioning hardware, software, technology, and required materials necessary to complete their coursework in all classes.

**Academic Integrity:** Academic integrity is essential to learning. scholars are expected to complete their own work. Copying, plagiarizing, cheating, or other methods of intentional deception are prohibited and could result in the scholar's removal from the class or iA entirely.

**IA Policy 1st Offense:** The scholar will be contacted by the teacher via phone call, the scholar will be made aware of the plagiarism and examples of how this can be avoided will be discussed. Direct instruction on plagiarism will be delivered by the teacher. iA Administration and other teachers will be made aware of the plagiarism. The work must be redone without plagiarism.

**2nd Offense:** The scholar and parents will be contacted by the teacher directly and the scholar will have to complete the

plagiarized assignment without plagiarism before moving on in the course. iA Administration will be made aware.

3rd Offense: The scholar will be withdrawn from the course or iA depending on the severity and/or frequency of the plagiarism.

WAC (Weekly Academic Contact): State regulations require scholars in online programs to have weekly academic contact with each teacher. This occurs by engaging with the curriculum and online instruction, submitting assignments to make progress in learning, and successfully completing courses. Scholars have multiple opportunities and methods to achieve weekly academic contact and receive teacher assistance and feedback: email, message, live online sessions, assignments, phone, and/or face-to-face meetings by appointment when applicable and in accordance with social distancing guidelines. In accordance with new state law the iA Weekly Academic Contact policies are changing. To ensure the success of all iA scholars, Weekly Academic Contact is required to remain enrolled at iA.

1st week missed WAC= Notification of missed WAC that informs scholars and parents of the consequences of additional missed WAC. (Step 1)

2nd consecutive or 3rd cumulative week of missed WAC= The scholar and parent must conference with a designee to discuss the missed contact, administer a “screener”, and develop a data-based interventions plan. (Step 2)

5th consecutive OR 6 cumulative of missed WAC= BECCA petition will be filed. (Step 3)

## **ACADEMIC GOALS**

**ALE COURSE** Completing math at grade level, level 8th grade.

### **LEARNING ACTIVITIES**

Text Books and/or Work Books.

## **EVALUATION**

### **ALE Course Evaluation Methods:**

Monthly Progress Review: State law also requires enrolled scholars to maintain monthly forward progress toward completing classes with success. Scholars are expected to complete one monthly module of at-standard work or have completed the teacher-prescribed plan as assigned by the certificated teacher of that course. If the assigned at-standard work is submitted, the scholar will be considered having made

Satisfactory Progress. If the assigned work is not submitted and/or is not at standard, the scholar will be considered having made Unsatisfactory Progress.

An overall Monthly Progress Review (MPR) score will be prepared in the ALE App and notification that they are ready to be viewed will be emailed to every family once a month by the Advisory/Homeroom teacher to communicate overall progress towards mastery and passing of the courses.

Scholars are either making Satisfactory Progress or Unsatisfactory Progress. If a scholar is considered having made Satisfactory progress (by the individual teachers in individual courses) in 50% or more of their courses, they will be considered having made Satisfactory progress overall. If a scholar is considered having made Unsatisfactory progress (by the individual teachers in individual courses) in more than 50% of their courses they will be considered having made Unsatisfactory Progress overall. If a scholar is determined to have made Unsatisfactory Progress for consecutive months, the Advisory/Homeroom teacher will include escalating intervention plans each month in the Monthly Progress Review. If a scholar reaches 3 months of Unsatisfactory Progress they may be withdrawn by the administration.

## **TIMELINES**

**OCTOBER** Complete all lessons and assignments in the October module on your "modules" page in Canvas.

**NOVEMBER** Complete all lessons and assignments in the November module on your "modules" page in Canvas.

**DECEMBER** Complete all lessons and assignments in the December module on your "modules" page in Canvas.

**JANUARY** Complete all lessons and assignments in the January module on your "modules" page in Canvas.

**FEBRUARY** Complete all lessons and assignments in the February module on your "modules" page in Canvas.

**MARCH** Complete all lessons and assignments in the March module on your "modules" page in Canvas.

**APRIL** Complete all lessons and assignments in the April module on your "modules" page in Canvas.

**MAY** Complete all lessons and assignments in the May module

on your "modules" page in Canvas.

**JUNE** Complete all lessons and assignments in the June module  
on your "modules" page in Canvas.