### Student Learning Objective (SLO)

**Integrated Algebra**

*All SLOs MUST include the following basic components:*

**Population**

Two sections of Integrated Algebra, heterogeneously grouped, with 52 students. Enrollment set on BEDS day. See attached roster for information about individual students.

**Learning Content**

New York State Core Curriculum Standards for Integrated Algebra

#### Problem Solving Strand

*Students will build new mathematical knowledge through problem solving.*

A.PS.1 Use a variety of problem solving strategies to understand new mathematical content

A.PS.2 Recognize and understand equivalent representations of a problem situation or a mathematical concept

*Students will solve problems that arise in mathematics and in other contexts.*

A.PS.3 Observe and explain patterns to formulate generalizations and conjectures

A.PS.4 Use multiple representations to represent and explain problem situations (e.g., verbally, numerically, algebraically, graphically)

*Students will apply and adapt a variety of appropriate strategies to solve problems.*

A.PS.5 Choose an effective approach to solve a problem from a variety of strategies (numeric, graphic, algebraic)

A.PS.6 Use a variety of strategies to extend solution methods to other problems

A.PS.7 Work in collaboration with others to propose, critique, evaluate, and value alternative approaches to problem solving

*Students will monitor and reflect on the process of mathematical problem solving.*

A.PS.8 Determine information required to solve a problem, choose methods for obtaining the information, and define parameters for acceptable solutions

A.PS.9 Interpret solutions within the given constraints of a problem

A.PS.10 Evaluate the relative efficiency of different representations and solution methods of a problem

#### Reasoning and Proof Strand

*Students will recognize reasoning and proof as fundamental aspects of mathematics.*

A.RP.1 Recognize that mathematical ideas can be supported by a variety of strategies

*Students will make and investigate mathematical conjectures.*

A.RP.2 Use mathematical strategies to reach a conclusion and provide supportive arguments for a conjecture

A.RP.3 Recognize when an approximation is more appropriate than an exact answer
Students will develop and evaluate mathematical arguments and proofs.

A.RP.4 Develop, verify, and explain an argument, using appropriate mathematical ideas and language
A.RP.5 Construct logical arguments that verify claims or counterexamples that refute them
A.RP.6 Present correct mathematical arguments in a variety of forms
A.RP.7 Evaluate written arguments for validity

Students will select and use various types of reasoning and methods of proof.

A.RP.8 Support an argument by using a systematic approach to test more than one case
A.RP.9 Devise ways to verify results or use counterexamples to refute incorrect statements
A.RP.10 Extend specific results to more general cases
A.RP.11 Use a Venn diagram to support a logical argument
A.PR.12 Apply inductive reasoning in making and supporting mathematical conjectures

Communication Strand

Students will organize and consolidate their mathematical thinking through communication.

A.CM.1 Communicate verbally and in writing a correct, complete, coherent, and clear design (outline) and explanation for the steps used in solving a problem
A.CM.2 Use mathematical representations to communicate with appropriate accuracy, including numerical tables, formulas, functions, equations, charts, graphs, Venn diagrams, and other diagrams

Students will communicate their mathematical thinking coherently and clearly to peers, teachers, and others.

A.CM.3 Present organized mathematical ideas with the use of appropriate standard notations, including the use of symbols and other representations when sharing an idea in verbal and written form
A.CM.4 Explain relationships among different representations of a problem
A.CM.5 Communicate logical arguments clearly, showing why a result makes sense and why the reasoning is valid
A.CM.6 Support or reject arguments or questions raised by others about the correctness of mathematical work

Students will analyze and evaluate the mathematical thinking and strategies of others.

A.CM.7 Read and listen for logical understanding of mathematical thinking shared by other students
A.CM.8 Reflect on strategies of others in relation to one’s own strategy
A.CM.9 Formulate mathematical questions that elicit, extend, or challenge strategies, solutions, and/or conjectures of others

Students will use the language of mathematics to express mathematical ideas precisely.

A.CM.10 Use correct mathematical language in developing mathematical questions that elicit, extend, or challenge other students’ conjectures
A.CM.11 Represent word problems using standard mathematical notation
A.CM.12 Understand and use appropriate language, representations, and terminology when describing objects, relationships, mathematical solutions, and rationale
A.CM.13 Draw conclusions about mathematical ideas through decoding, comprehension, and interpretation of mathematical visuals, symbols, and technical writing
Connections Strand

**Students will recognize and use connections among mathematical ideas.**

A.CN.1 Understand and make connections among multiple representations of the same mathematical idea
A.CN.2 Understand the corresponding procedures for similar problems or mathematical concepts

**Students will understand how mathematical ideas interconnect and build on one another to produce a coherent whole.**

A.CN.3 Model situations mathematically, using representations to draw conclusions and formulate new situations
A.CN.4 Understand how concepts, procedures, and mathematical results in one area of mathematics can be used to solve problems in other areas of mathematics
A.CN.5 Understand how quantitative models connect to various physical models and representations

**Students will recognize and apply mathematics in contexts outside of mathematics.**

A.CN.6 Recognize and apply mathematics to situations in the outside world
A.CN.7 Recognize and apply mathematical ideas to problem situations that develop outside of mathematics
A.CN.8 Develop an appreciation for the historical development of mathematics

Representation Strand

**Students will create and use representations to organize, record, and communicate mathematical ideas.**

A.R.1 Use physical objects, diagrams, charts, tables, graphs, symbols, equations, or objects created using technology as representations of mathematical concepts
A.R.2 Recognize, compare, and use an array of representational forms
A.R.3 Use representation as a tool for exploring and understanding mathematical ideas

**Students will select, apply, and translate among mathematical representations to solve problems.**

A.R.4 Select appropriate representations to solve problem situations
A.R.5 Investigate relationships between different representations and their impact on a given problem

**Students will use representations to model and interpret physical, social, and mathematical phenomena.**

A.R.6 Use mathematics to show and understand physical phenomena (e.g., find the height of a building if a ladder of a given length forms a given angle of elevation with the ground)
A.R.7 Use mathematics to show and understand social phenomena (e.g., determine profit from student and adult ticket sales)
A.R.8 Use mathematics to show and understand mathematical phenomena
### Number Sense and Operations Strand

**Students will understand numbers, multiple ways of representing numbers, relationships among numbers, and number systems.**

**Number Theory**

| A.N.1 | Identify and apply the properties of real numbers (closure, commutative, associative, distributive, identity, inverse) Note: Students do not need to identify groups and fields, but students should be engaged in the ideas. |

**Students will understand meanings of operations and procedures, and how they relate to one another.**

**Operations**

| A.N.2 | Simplify radical terms (no variable in the radicand) |
| A.N.3 | Perform the four arithmetic operations using like and unlike radical terms and express the result in simplest form |
| A.N.4 | Understand and use scientific notation to compute products and quotients of numbers greater than 100% |
| A.N.5 | Solve algebraic problems arising from situations that involve fractions, decimals, percents (decrease/increase and discount), and proportionality/direct variation |
| A.N.6 | Evaluate expressions involving factorial(s), absolute value(s), and exponential expression(s) |
| A.N.7 | Determine the number of possible events, using counting techniques or the Fundamental Principle of Counting |
| A.N.8 | Determine the number of possible arrangements (permutations) of a list of items |

### Algebra Strand

**Students will represent and analyze algebraically a wide variety of problem solving situations.**

**Variables and Expressions**

| A.A.1 | Translate a quantitative verbal phrase into an algebraic expression |
| A.A.2 | Write verbal expressions that match given mathematical expressions |

**Equations and Inequalities**

| A.A.3 | Distinguish the difference between an algebraic expression and an algebraic equation |
| A.A.4 | Translate verbal sentences into mathematical equations or inequalities |
| A.A.5 | Write algebraic equations or inequalities that represent a situation |
| A.A.6 | Analyze and solve verbal problems whose solution requires solving a linear equation in one variable or linear inequality in one variable |
| A.A.7 | Analyze and solve verbal problems whose solution requires solving systems of linear equations in two variables |
| A.A.8 | Analyze and solve verbal problems that involve quadratic equations |
| A.A.9 | Analyze and solve verbal problems that involve exponential growth and decay |
| A.A.10 | Solve systems of two linear equations in two variables algebraically (See A.G.7) |
| A.A.11 | Solve a system of one linear and one quadratic equation in two variables, where only factoring is required Note: The quadratic equation should represent a parabola and the solution(s) should be integers. |
Students will perform algebraic procedures accurately.

Variables and Expressions

A.A.12 Multiply and divide monomial expressions with a common base, using the properties of exponents (Note: Use integral exponents only).
A.A.13 Add, subtract, and multiply monomials and polynomials.
A.A.14 Divide a polynomial by a monomial or binomial, where the quotient has no remainder.
A.A.15 Find values of a variable for which an algebraic fraction is undefined.
A.A.16 Simplify fractions with polynomials in the numerator and denominator by factoring both and renaming them to lowest terms.
A.A.17 Add or subtract fractional expressions with monomial or like binomial denominators.
A.A.18 Multiply and divide algebraic fractions and express the product or quotient in simplest form.
A.A.19 Identify and factor the difference of two perfect squares.
A.A.20 Factor algebraic expressions completely, including trinomials with a lead coefficient of one (after factoring a GCF).

Equations and Inequalities

A.A.21 Determine whether a given value is a solution to a given linear equation in one variable or linear inequality in one variable.
A.A.22 Solve all types of linear equations in one variable.
A.A.23 Solve literal equations for a given variable.
A.A.24 Solve linear inequalities in one variable.
A.A.25 Solve equations involving fractional expressions (Note: Expressions which result in linear equations in one variable).
A.A.26 Solve algebraic proportions in one variable which result in linear or quadratic equations.
A.A.27 Understand and apply the multiplication property of zero to solve quadratic equations with integral coefficients and integral roots.
A.A.28 Understand the difference and connection between roots of a quadratic equation and factors of a quadratic expression.

Students will recognize, use, and represent algebraically patterns, relations, and functions.

Patterns, Relations, and Functions

A.A.29 Use set-builder notation and/or interval notation to illustrate the elements of a set, given the elements in roster form.
A.A.30 Find the complement of a subset of a given set, within a given universe.
A.A.31 Find the intersection of sets (no more than three sets) and/or union of sets (no more than three sets).

Coordinate Geometry

A.A.32 Graph the Explain slope as a rate of change between dependent and independent variables.
A.A.33 Determine the slope of a line, given the coordinates of two points on the line.
A.A.34 Write the equation of a line, given its slope and the coordinates of a point on the line.
A.A.35 Write the equation of a line, given the coordinates of two points on the line.
A.A.36 Write the equation of a line parallel to the x- or y-axis.
A.A.37 Determine the slope of a line, given its equation in any form.
A.A.38 Determine if two lines are parallel, given their equations in any form.
A.A.39 Determine whether a given point is on a line, given the equation of the line.
A.A.40 Determine whether a given point is in the solution set of a system of linear inequalities.
A.A.41 Determine the vertex and axis of symmetry of a parabola, given its equation (See A.A.10).
### Trigonometric Functions

- **A.A.42** Find the sine, cosine, and tangent ratios of an angle of a right triangle, given the lengths of the sides.
- **A.A.43** Determine the measure of an angle of a right triangle, given the length of any two sides of the triangle.
- **A.A.44** Find the measure of a side of a right triangle, given an acute angle and the length of another side.
- **A.A.45** Determine the measure of a third side of a right triangle using the Pythagorean theorem, given the lengths of any two sides.

### Geometry Strand

**Students will use visualization and spatial reasoning to analyze characteristics and properties of geometric shapes.**

#### Shapes

- **A.G.1** Find the area and/or perimeter of figures composed of polygons and circles or sectors of a circle. Note: Figures may include triangles, rectangles, squares, parallelograms, trapezoids, circles, semi-circles, quarter-circles, and regular polygons (perimeter only).
- **A.G.2** Use formulas to calculate volume and surface area of rectangular solids and cylinders.

**Students will apply coordinate geometry to analyze problem solving situations.**

#### Coordinate Geometry

- **A.G.3** Determine when a relation is a function, by examining ordered pairs and inspecting graphs of relations.
- **A.G.4** Identify and graph linear, quadratic (parabolic), absolute value, and exponential functions.
- **A.G.5** Investigate and generalize how changing the coefficients of a function affects its graph.
- **A.G.6** Graph linear inequalities.
- **A.G.7** Graph and solve systems of linear equations and inequalities with rational coefficients in two variables (See A.A.10).
- **A.G.8** Find the roots of a parabolic function graphically. Note: Only quadratic equations with integral solutions.
- **A.G.9** Solve systems of linear and quadratic equations graphically. Note: Only use systems of linear and quadratic equations that lead to solutions whose coordinates are integers.
- **A.G.10** Determine the vertex and axis of symmetry of a parabola, given its graph (See A.A.41). Note: The vertex will have an ordered pair of integers and the axis of symmetry will have an integral value.

### Measurement Strand

**Students will determine what can be measured and how, using appropriate methods and formulas.**

#### Units of Measurement

- **A.M.1** Calculate rates using appropriate units (e.g., rate of a spaceship versus the rate of a snail).
- **A.M.2** Solve problems involving conversions within measurement systems, given the relationship between the units.

**Students will understand that all measurement contains error and be able to determine its significance.**

#### Error and Magnitude
A.M.3 Calculate the relative error in measuring square and cubic units, when there is an error in the linear measure

A.M.2 Solve problems involving conversions within measurement systems, given the relationship between the units

**Statistics and Probability Strand**

**Students will collect, organize, display, and analyze data.**

**Organization and Display of Data**

A.S.1 Categorize data as qualitative or quantitative
A.S.2 Determine whether the data to be analyzed is univariate or bivariate
A.S.3 Determine when collected data or display of data may be biased
A.S.4 Compare and contrast the appropriateness of different measures of central tendency for a given data set
A.S.5 Construct a histogram, cumulative frequency histogram, and a box-and-whisker plot, given a set of data
A.S.6 Understand how the five statistical summary (minimum, maximum, and the three quartiles) is used to construct a box-and-whisker plot
A.S.7 Create a scatter plot of bivariate data
A.S.8 Construct manually a reasonable line of best fit for a scatter plot and determine the equation of that line

**Analysis of Data**

A.S.9 Analyze and interpret a frequency distribution table or histogram, a cumulative frequency distribution table or histogram, or a box-and-whisker plot
A.S.10 Evaluate published reports and graphs that are based on data by considering: experimental design, appropriateness of the data analysis, and the soundness of the conclusions
A.S.11 Find the percentile rank of an item in a data set and identify the point values for first, second, and third quartiles
A.S.12 Identify the relationship between the independent and dependent variables from a scatter plot (positive, negative, or none)
A.S.13 Understand the difference between correlation and causation
A.S.14 Identify variables that might have a correlation but not a causal relationship

**Students will make predictions that are based upon data analysis.**

**Predictions from Data**

A.S.15 Identify and describe sources of bias and its effect, drawing conclusions from data
A.S.16 Recognize how linear transformations of one-variable data affect the data's mean, median, mode, and range
A.S.17 Use a reasonable line of best fit to make a prediction involving interpolation or extrapolation

**Students will understand and apply concepts of probability.**

**Probability**

A.S.18 Know the definition of conditional probability and use it to solve for probabilities in finite sample spaces
A.S.19 Determine the number of elements in a sample space and the number of favorable events
A.S.20 Calculate the probability of an event and its complement
A.S.21 Determine empirical probabilities based on specific sample data
A.S.22 Determine, based on calculated probability of a set of events, if:

- some or all are equally likely to occur
- one is more likely to occur than another
- whether or not an event is certain to happen or not to happen

A.S.23 Calculate the probability of:

- a series of independent events
- two mutually exclusive events
- two events that are not mutually exclusive

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<th>Interval of Instructional Time</th>
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**Evidence**

Baseline data will be compiled using 8th grade math final average, 8th grade State Math Test score, and current year 5-week test and quiz average.

Summative assessment will be the NYS Integrated Algebra Regents assessment.

Students’ IEPs and 504 plans will be followed, as applicable.

*District will use a scoring method process ensuring teachers will not have a vested interest in outcomes*  

**Baseline**

On last year’s Math State Test Score:

- 9.0% Untested
- 0% scored a 1
- 3.8% scored a 2
- 61.4% scored a 3
- 21.2% scored a 4

For their 8th grade math average for the year:

- 3.9% had an average of 64% or less
- 26.9% had an average of between 65% and 85%
- 69.2% had an average of 85% or above

See attached rosters for individual baseline information.

**Target(s)**

80% of the students will score a 65 or higher on the NYS Integrated Algebra Regents assessment.

**HEDI Scoring**

This HEDI scoring will be based on district-determined goal of 80% of the students achieving proficiency on the Integrated Algebra Regents.

**Comment [SED5]**: Multiple sources of baseline data provide a more robust picture of students’ current academic ability, thus allowing for more precise targets to be set for end of the course performance. For more information about the use of historical data to establish baselines please reference the Student Learning Objective 103 Webinar.

**Comment [SED6]**: Indicating when the pre-assessment/baseline information was collected provides context for the teacher and/or reviewer.

**Comment [SED7]**: A broad overview of student baseline performance, in addition to the individual student performance, allows the teacher and reviewer additional context from which to set rigorous and reasonable targets for student performance.

**Comment [SED8]**: SLOs are a practical extension of decisions made in a district’s APPR plan. Specific HEDI scales would be defined within a district’s plan. Referencing the portions of a district’s plan that are used in the design of an SLO strengthen alignment and cohesiveness of the evaluation system.
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- Since all of our students have achieved a Math State Test score of 2 or higher in 8th grade, and 96% passed 8th grade math, they demonstrated the skills necessary to attain proficiency on the Integrated Algebra Regents exam.
- The 5-week Test/Quiz average is used to formatively assess students’ knowledge of basic algebra skills essential for success in Integrated Algebra.
- Since this course builds on the concepts learned in Math 8, the final average for that course is a good indicator of how the students will perform in Integrated Algebra.
- Historically, at least 80% of student in the 1-year Algebra course have achieved a passing score on the Regents exam.
- Integrated Algebra is the first course in a student’s high school math sequence. By asking for all students to at least reach proficiency we are ensuring their success in future math coursework.

Comment [SED9]: The SLO rationale is meant to thread the various components of the SLO together in a cohesive fashion, becoming a guide to instructional practice and data-driven instructional models. Decisions made between selected content, baseline performance, and target setting should not only be aligned with each other, but also be in direct connection to the instructional practice and decisions made in regards to the course.
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