

# Student Learning Objectives (SLO)

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**Teacher Name:**

**Content Area and Course:**

Advanced Algebra - Mathematics

**Grade Level:** 9-12

**Academic Year:** 2013-14

## Baseline and Trend Data

*What information is being used to inform the creation of the SLO and establish the amount of growth that should take place?*

A two part district approved pre-assessment test developed by the advanced algebra team was given during the second week of the course. Part one permitted use of a graphing calculator and part two allowed use of a scientific calculator. The pre-assessment test consisted of short answer and multiple choice questions and tested prior knowledge as well as content to be covered in the course.

## Student Population

*Which students will be included in this SLO? Include course, grade level, and number of students.*

This SLO covers 27 students in Block 2 Advanced Algebra. There are ten 9<sup>th</sup> graders, fourteen 10<sup>th</sup> graders, one 11<sup>th</sup> grader and two 12<sup>th</sup> graders. Two students have IEP's. Due to the re-alignment of curriculum for the common core only 17 of the students have completed Geometry, the other ten taking this course a year ahead of students from past years. One student is retaking the course, one student is taking a math course at the high school for the first time as all his other math courses have been home schooled.

## Interval of Instruction

*What is the duration of the course that the SLO will cover? Include beginning and end dates.*

This SLO covers the first semester of the 2013-2014 school year from August 19, 2013 through December 20, 2013. The class meets every school day. The regular schedule is about 80 minutes per block.

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## Standards and Content

*What content will the SLO target? To what related standards is the SLO aligned?*

Key elements of assessments, which are aligned to the Advanced Algebra curriculum and meet or exceed OAC standards, include:

- Solve/graph linear equations/inequalities
- Solve/graph absolute value equations
- Solve systems of equations/inequalities
- Solve/graph quadratic equations
- Simplify radical expressions
- Solve/graph exponential equations
- Solve/graph variation equations
- Interpret/generate arithmetic and geometric sequences
- Solve right triangle trig equations

Application problems are expected for most families of functions and graphing calculators introduced with some concepts.

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## Assessment(s)

*What assessment(s) will be used to measure student growth for this SLO?*

**District approved Advanced Algebra post assessment will be given in December.**

## Growth Target(s)

*Considering all available data and content requirements, what growth target(s) can students be expected to reach?*

Group 1: scored 25 -28% on pre-test)

Growth Target: 70 – 100%

Group 2: scored 20-24% on pre-test)

Growth Target: 66-69%

Group 3: scored 15-19% on pre-test)

Growth Target: 63-65%

Group 4: scored 6-14% on pre-test)

Growth Target: 60-62%

Names:	PreTest	Growth Target
Barnes, Michaela J #173672	11	11% 60-62
Belsan Jr., Joseph A #162524	27	26% 70 - 100
Biermann, Emma E #184757	15	15% 63-65
Colavecchio, Mario T #169477	19	18% 63-65
Drewniak, Riley F #157020	16	16% 63-65
Grossman, Brett L #162629	17	17% 63-65
Hadar, Lucas J #161759	6	6% 60-62
Holmes, Cordell I #165776	16	16% 63-65
Jones, Elliott A #157638	12	12% 60-62

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Kosiorek, Samuel H #168646	14	14%	60-62
Kwak, Mackenzie A #169168	26	25%	70 - 100
Magyarics, Daniel P #157746	19	18%	63-65
Manocchio, Nicholas R #161865	18	17%	63-65
Marinucci, Sofia O #164323	28	27%	70 - 100
McCabe II, Shawn C #157074	13	13%	60-62
Mollohan, Camden R #199434	24	23%	66-69
Neal, Alexandra B #161885	23	22%	66-69
Rankin, Marie H #157913	14	14%	60-62
Robertson, Cassidy A #159912	16	16%	63-65
Ross, Kellie A #163351	12	12%	60-62
Seewald, Maxwell D #157162	24	23%	66-69
Sirna, Michael R #143972	17	17%	63-65
Smith, Jennifer R #195896	14	14%	60-62
Sova, Joseph T #137787	11	11%	60-62
Starling, Evan C #183027	11	11%	60-62
Wiegand, Jonathan T #143863	9	9%	60-62
Zadeskey III, William J #162492	14	14%	60-62

Avg. for class            16.52    16%

**Total Points            103**

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### **Rational for Growth Target(s)**

*What is your rationale for setting the above target(s) for student growth within the interval of instruction?*

**The pre-assessment scores were broken into 4 subcategories for targeting purposes. Throughout the year, I will monitor student progress through formative assessments and will adjust instructional strategies as needed.**