

Sample for Power Point

Your task is to explore a Learning Progression for an assigned standard. The assigned standard is already written in the chart.

Task

- Read the assigned standard carefully.
- Individually think about and then discuss with the group a logical learning progression that would include the assigned standard.
- With your group members search for standards that would fall into a learning progression with the assigned standard. (Choice of documents to explore would be the Common Core State Standards for Mathematics for grades K-8 standards and either Appendix A pages 15 through 43 or the three Maryland Common Core State Standards Curriculum Frameworks.)
- Enter the course/grade, code(s) and a rationale for your selection in the table below.
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Course/ Grade	Code(s) for the Standard(s)	Rationale
6 th Grade	6.EE.9	Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity in terms of another quantity.
7 th Grade	7.RP.2	Recognize and represent proportional relationships between quantities
8 th Grade		
8 th Grade	8.EE.7	Solve linear equations in one variable
8 th Grade	8.EE.8 a, b & c	Analyze and solve pairs of simultaneous linear equations
8 th Grade	8.F.3	Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line
Algebra I (Unit 1)	A.CED.3	Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context. <i>For example, represent inequalities describing nutritional and cost constraints on combinations of different foods.</i>
Algebra I (Unit 2)	A.REI.5	Prove that, given a system of two equations in two variables, replacing one equation by the sum of that equation and a multiple of the other produces a system with the same solutions.
Algebra I (Unit 2)	A.REI.6	Targeted Standard Solve systems of linear equations exactly and approximately (e.g. with graphs), focusing on pairs of linear equations in two variables
Algebra I (Unit 2)	A.REI.11	Explain why the x -coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$; find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive approximations . Include cases where $f(x)$ and/or $g(x)$ are linear , polynomial, rational, absolute value, exponential , and logarithmic functions. *
Algebra I (Unit 4)	A.REI.7	Solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically and graphically.
Algebra II (Unit 1)	A.REI.7	Solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically and graphically.
Algebra II	A.CED.3	Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context.

The Learning Progression of a Standard

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Course/ Grade	Code(s) for the Standard(s)	Rationale
Algebra I	A.APR.1 Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction and multiplication; add, subtract, and multiply polynomials	<i>Targeted Standard</i>

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Course/ Grade	Code(s) for the Standard(s)	Rationale
Algebra I	<p>F.BF.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k f(x)$, $f(kx)$, and $f(x + k)$ for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology.</p>	<i>Targeted Standard</i>

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Algebra I	S.ID.7 Interpret the slope (rate of change) and the intercept (constant term) of a linear model in the context of the data.	<i>Targeted Standard</i>

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Course/ Grade	Code(s) for the Standard(s)	Rationale
Geometry	G.SRT.8 Use trigonometric ratios and the Pythagorean Theorem to solve right triangle problems	<i>Targeted Standard</i>

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Geometry	G.GPE.4 Use coordinates to prove simple geometric theorems algebraically.	<i>Targeted Standard</i>

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Algebra II	N.CN.7 Solve quadratic equations with real coefficients that have complex solutions.	<i>Targeted Standard</i>

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Course/ Grade	The Standard	Rationale
Algebra II	F.IF.8 Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.	<i>Targeted Standard</i>