UNITS DESIGN FRAMEWORK

PART I: UNIT OVERVIEW

Content	Math	
Grade Level	8	
Power Standard/CCSS Power Standard	A2A / 8.EE.6 8.EE.7.b 8.EE.8.c 8.SP.3	
Suggested Length of Unit	Approximately 10 weeks	

Reference Deconstruction Document and Power Standard/CCSS	http://camdentonschools.schoolwires.net/cms/lib01/MO01001301/Centr
Power Standard	icity/Domain/39/Grade_8_Mathematics_DeconsStds.pdf

Unwrapped Concept : Pull "the what" from deconstruction documents, should represent what students need to know.	Key Vocabulary : Pull academic vocabulary from deconstruction documents, should represent what students need to be able to do.	Depth of Knowledge (DOK)
Symbolic Algebra	Variables	
Variables	Numbers	
Numbers	Constants	3
Problems	Linear Relationships	
Linear Relationships	Coefficients	
	Solve	

Supporting Standards (current and CCSS): Standards that build to the	Other Vocabulary Terms: Terms worth learning in the unit.
power standard.	
A2A7, A1B8, A1C8, A1D8	Algebra, Rule

Reference to Power Standard Assessment: Paste the link to the	Use symbolic algebra to represent and solve problems that involve
appropriate power standard assessment in this box.	linear relationships

PART II: LEARNING PROGRESSIONS

Directions:

- 1. Copy the unwrapped power standard concepts, vocabulary, and DOK into the frames provided below.
- 2. Brainstorm three to five possible performance tasks that incorporate these concepts, skills, and levels of rigor.
- 3. Write a synopsis for each selected task and list the tasks in a "learning progressions" sequence. Bold those concepts and skills that are directly represented in the tasks.

Learning Progressions:

Task 1: In cooperative learning groups, students will construct tables, graphs, and rules (equations) to represent linear patterns of change

<u>**Task 2:**</u> Students will explore *y*-intercept in a table (as the value of y when x = 0), graph (where the line crosses the y-axis), equation (represented as *b*, constant, in the slope-intercept form of an equation y = mx + b), and in real life applications as the starting point or beginning value.

Task 3: Students will explore rate of change/slope in a table (exploring the relationship between the independent and dependent variables and how the variables change), graph (the steepness of the line – rise over run), equation (represented as m, coefficient, in the slope-intercept form of an equation y = mx + b), and in real life applications (the constant increase or decrease between the variables).

<u>Task 4:</u> Students will analyze linear relationships presented numerically in tables, graphically on a coordinate plane, algebraically as an equation, and verbally in real life applications. For example a linear function represented by a table will be matched to a linear function represented graphically, algebraically, or verbally in real life applications.

EXAMPLE: UNIT DESIGN FRAMEWORK

PART I: UNIT OVERVIEW