

Unit 1 Relationships Between Quantities

A. Solving Equations & Inequalities

CCSS	4 – Mastery	3 – Proficient	2 - Basic	1 – Below Basic	0 – No Evidence
Interpret expressions and equations (A.SSE.1*)	Can extend thinking beyond the standard, including tasks that may involve one of the following: <ul style="list-style-type: none"> • Designing • Connecting • Synthesizing • Applying • Justifying • Critiquing • Analyzing • Creating • Proving 	Interpret individual and groups of parts of an expression (such as variables, coefficients, factors, etc.) in terms of a given context.	Identify groups in an expression and Interpret individual parts of an expression (such as variables, coefficients, factors, etc.) in terms of a given context.	Identify individual parts of an expression (such as variables, coefficients, factors, etc.)	Little evidence of reasoning or application to solve the problem Does not meet the criteria in a level 1
Solve equations and inequalities (A.REI.3)		Solve linear equations and inequalities with rational numbers and variables on both sides, that requires distributing and combining like terms.	Solve linear equations and inequalities with rational numbers and variables on both sides, that requires distributing or combining like terms.	Solve linear equations and inequalities with rational numbers and variables on both sides.	

A.SSE.1* Interpret expressions that represent a quantity in terms of its context.

- a. Interpret parts of an expression, such as terms, factors, and coefficients.
- b. Interpret complicated expressions by viewing one or more of their parts as a single entity.

A.REI.3 Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.

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B. Creating Equations & Inequalities

CCSS	4 – Mastery	3 – Proficient	2 - Basic	1 – Below Basic	0 – No Evidence
Create equations and inequalities (A.CED.1*)	Can extend thinking beyond the standard, including tasks that may involve one of the following: <ul style="list-style-type: none"> • Designing • Connecting • Synthesizing • Applying • Justifying • Critiquing • Analyzing • Creating • Proving 	Create linear equations and inequalities with one variable and use them in a contextual situation and solve problems.	Create linear equations or inequalities with one variable and use them in a contextual situation and solve problems.	Identify linear equations or inequalities with one variable to represent a contextual situation and use them to solve problems.	Little evidence of reasoning or application to solve the problem Does not meet the criteria in a level 1
Create equations and inequalities (A.CED.2*)		Create linear equations and inequalities with two or more variables and use them in a contextual situation and solve problems.	Create linear equations or inequalities with two or more variables and use them in a contextual situation and solve problems.	Identify linear equations or inequalities with two or more variables to represent a contextual situation and use them to solve problems.	
Represent constraints and interpret solutions (A.CED.3*)		Write the constraints for a contextual situation <u>Interpret solutions as viable or nonviable options</u> in context of the situation.	Write the constraints for a contextual situation Identify solutions <u>in context of the situation.</u>	Identify the constraints for a contextual situation Identify solutions	

A.CED.1* Create equations and inequalities in one variable and use them to solve problems

A.CED.2* Create equations in two or more variables to represent relationships between quantities; ~~graph equations on coordinate axes with labels and scales.~~

A.CED.3* Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context.

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C. Literal Equations

CCSS	4 – Mastery	3 – Proficient	2 - Basic	1 – Below Basic	0 – No Evidence
Solve and rewrite literal equations (A.REI.3, A.CED.4*)	Can extend thinking beyond the standard, including tasks that may involve one of the following: <ul style="list-style-type: none"> • Designing • Connecting • Synthesizing • Applying • Justifying • Critiquing • Analyzing • Creating • Proving 	Solve multi-step literal equations involving more than 2 variables <u>in contextual situations</u>	Solve multi-step literal equations involving <u>more than 2 variables</u>	Solve multi-step literal equations involving <u>2 variables</u>	Little evidence of reasoning or application to solve the problem Does not meet the criteria in a level 1

A.REI.3 Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.

A.CED.4* Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.