

Math 8 Unit 1 Plan 2023 - 2024

Course: Math 8		Unit: 1 - Equations		
Time: 23 Days (August 7th- Sept. 8th)	Essential Standards: <u>8.EE.7a</u> , <u>8.EE.7b</u>			
Previous Standard: 7.EE.B.4 Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.	Future Standard: HS.A-REI.A.1 Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.			
Standards for Mathematical Practice: 1. Make sense of problems and persevere in solving them. 2. Reason abstractly and quantitatively. 3. Construct viable arguments and critique the reasoning of others. 4. Model with mathematics. 5. Use appropriate tools strategically. 6. Attend to precision. 7. Look for and make use of structure. 8. Look for and express regularity in repeated reasoning .	Student Learning Targets: 1. I can give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. (8.EE.7.a) 2. I can solve linear equations in one variable. (8.EE.7b)			
Standards	Vocabulary	Skills	Activities (Resources)	Assessment
Essential Standards:				
<u>8.EE.7a</u> <u>Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these</u>	<ul style="list-style-type: none"> ● linear equations in one variable ● one solution ● infinitely many solutions 	<ul style="list-style-type: none"> ● Solve linear equations in one variable ● Give examples of linear equations in one variable with: 	<u>Chapter 1</u> Lesson 1.1, 1.2, 1.3	CFA with targets assessed or link to assessment

<p><u>possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a and b are different numbers).</u></p> <p><u>8.EE.7b</u> <u>Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.</u></p>	<ul style="list-style-type: none"> ● no solutions ● simpler forms ● equivalent equation ● rational number coefficients ● expressions ● Distributive Property ● like terms 	<ul style="list-style-type: none"> ○ One solution ○ Infinitely many solutions ○ No solutions ● Transform equations into simpler forms to create equivalent equations ● Solve linear equations with rational number coefficients, including equations whose solutions require using: <ul style="list-style-type: none"> ○ Distributive Property ○ Combining like terms 	<p>Click here to access SBAC sample items EE.7.a</p>	<p>Link to end of unit assessment</p>
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Reflection:
Week 1 includes Syllabus discussion, Classroom Expectations, Fraction/Integers review.
Week 2 includes ESA #1 (min. 2 days).
Start talking about special answers (infinitely many solutions, no solution) as soon as possible.

Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
8/7 MIN DAY 1st Week of School Activities	8/8 1st Week of School Activities	8/9 1st Week of School Activities	8/10 1st Week of School Activities	8/11 1st Week of School Activities
8/14 ESSENTIAL STANDARDS	8/15 ESSENTIAL STANDARDS	8/16 MATH DIAGNOSTIC TEST	8/17 TEAM FLEX DAY:	8/18 MATH DIAGNOSTIC TEST

ASSESSMENT # 1 (DAY 1)	ASSESSMENT # 1 (DAY 2)	(DAY 1)	<ul style="list-style-type: none"> ● BIM Signup ● IXL Access ● Prodigy Access ● Aeries Access ● ESA #1 Make-ups 	(DAY 2)
<p>8/21</p> <p><i>FOCUS: Prior Knowledge (WYLB Ch 1)</i></p>	<p>8/22</p> <p>I can solve linear equations in one variable. <i>FOCUS: Solve 1-step equations (Activity 1.1)</i></p>	<p>8/23</p> <p>I can solve linear equations in one variable. <i>FOCUS: Solve 1-step equations (Lesson 1.1)</i></p>	<p>8/24</p> <p>I can solve linear equations in one variable. <i>FOCUS: Solve multi-step equations (Activity 1.2)</i></p>	<p>8/25</p> <p>I can solve linear equations in one variable. <i>FOCUS: Solve multi-step equations (Lesson 1.2)</i></p>
<p>8/28</p> <p>CFA: I can solve linear equations in one variable. <i>FOCUS: Review solving linear equations in one variable (1.1-1.2 Quiz)</i></p>	<p>8/29</p> <p>TEAM FLEX DAY: Re-engage students in prior learning using CFA data and small groups</p>	<p>8/30</p> <p>I can give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. <i>FOCUS: Solve equations with variables on both sides (Activity 1.3)</i></p>	<p>8/31</p> <p>I can give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. <i>FOCUS: Solve equations with variables on both sides (Lesson 1.3)</i></p>	<p>9/1</p> <p>I can give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. <i>FOCUS: Solve equations with variables on both sides (Lesson 1.3)</i></p>
<p>9/4 LABOR DAY</p>	<p>9/5</p> <p>CFA: I can give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. <i>FOCUS: Review solving linear equations in one variable (1.3-1.4 Quiz)</i></p>	<p>9/6</p> <p>TEAM FLEX DAY: Re-engage students in prior learning using CFA data and small groups</p>	<p>9/7</p> <p>(OPTIONAL)</p> <p>I can give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. <i>FOCUS: Rewriting Equations (Lesson 1.4)</i></p>	<p>9/8 UNIT 1 ENDS</p> <p>Review for Unit Test</p> <ul style="list-style-type: none"> ● I can give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. ● I can solve linear equations in one variable.

<p>9/11 UNIT ASSESSMENT:</p> <ul style="list-style-type: none"> • I can give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. • I can solve linear equations in one variable. 				

***Identify dates for CFAs and end of unit assessments on the calendar.**