## **Assessment Plan**

Grade 7 Unit 5: Equations and Inequalities

Standards/Topics	Conceptual	Procedural Skill & Fluency	Application
	Understanding		
6.EE.5. Understand solving an	1 Equations and		
equation or inequality as a process	Inequalities		
of answering a question: which	Lesson 1		
values from a specified set, if any,	Pre-assessment		
make the equation or inequality	Self-assessment Skeleton		
true? Use and explain substitution	Answer Key		
in order to determine whether a			
given number in a specified set			
makes an equation or inequality true.			
7.EE.3			8 Problem Solving using
			Equations Gallery Walk
Solve multi-step real-life and			Lesson 3
mathematical problems posed			
with positive and negative			Formative
rational numbers in any form			Observation Checklist
(whole numbers, fractions, and			10 Cultimates To 1
decimals), using tools			10 Critiquing Task
strategically. Apply properties			Lesson 3
of operations to calculate with			Summative
numbers in any form; convert			Rubric
between forms as appropriate;			
and assess the reasonableness			
of answers using mental			
computation and estimation			
strategies.			
7.EE.4		2 7.EE.4a Practice	3 Equations and
Use variables to represent		Problems	Archaeology
quantities in a real-world or		Lesson 1	Lesson 1
mathematical problem, and		Formative	Summative
construct simple equations and		Answer Key	Answer Key
inequalities to solve problems by			
reasoning about the quantities.			
a. Solve word problems			
leading to equations of the			
form $px + q = r$ and $p(x + q)$			
= r, where p, q, and r are			
specific rational numbers.			
Solve equations of these			
forms fluently. Compare an			
algebraic solutions to an			
arithmetic solution,			
identifying the sequence of			
the operations used in each			
approach			

## **Assessment Plan**

7.EE.4		4 Inequalities Using	9 Problem Solving using
Use variables to represent		Addition and Subtraction	Inequalities Gallery Walk
quantities in a real-world or		Lesson 2	Lesson 3
mathematical problem, and		Formative	Formative
construct simple equations and			Observation Checklist
inequalities to solve problems by		5 Inequalities Using	
reasoning about the quantities.		Multiplication and	6 Interpreting
b. Solve word problems		Division	Representations
leading to inequalities of		Lesson 2	Lesson 2
the form $px + q > r$ or $px + q$		Formative	Summative
< r, where p, q, and r are			Match graph and context
specific rational numbers.			and Justify
Graph the solution set of			Answer Key/Rubric
the inequality and interpret			
it in the context of the			7 Bingo Game
problem.			Lesson 2
			Summative
7.G.4	11 7.G.4 Practice with	12 7.G.4 Circles	
Know the formulas for the area	Circles	Assessment	
and circumference of a circle	Lesson 4	Lesson 4	
and use them to solve problems;	Formative Assessment	Summative	
give an informal derivation of	Answer Key	Answer Key	
the relationship between the	,	,	
circumference and area of a			
circle.			
MP 3 Construct viable	Problem Solving using Equations Gallery Walk		
arguments and critique the	Problem Solving using Inequalities Gallery Walk		
reasoning of others.	Critiquing Task		
MP 4 Model with mathematics.	Problem Solving using Inequalities Gallery Walk		
	Interpreting Representations		
		, ,	
MP 6 Attend to precision.	Equations and Inequalities		
The state of precision.	Problem Solving using Equations Gallery Walk		
	Problem Solving using Inequalities Gallery Walk		
	Critiquing Task		
		2	

## Sample Lesson Sequence:

- 1. Use variables to represent quantities and solve word problems leading to equations 7.EE.4a
- 2. Use variables to represent quantities and solve word problems leading to inequalities 7.EE.4b (model lesson)
- 3. Solve multi step real life problems 7.EE.3
- 4. Use the formulas to solve for the circumference and area of a circle 7.G.4