Acceleration Unit Plan

Unit 3: Multiplication of Whole Numbers

Pre-Assessment Date Sept 27, 2021

Pre-Assessment Data Dig Date Sept 29, 2021

Unit Start Date Oct 11, 2021

Unit Assessment Date Oct 21, 2021

Essential Standard #1		***Essential Standard #2***	
4.5A Represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter standing for an unknown quantity			
Vocabulary	***Variable***, unknown quantity, strip diagram, equation	*Vocabulary*	
Concepts	Algebraic representation Problem solving	*Concepts*	
Skills	• Relating operations to real-world actions • Setting up and using a strip diagram • Writing an equation with a variable • Close reading of verbal description of a real-world situation • Identifying, planning and solving problems with more than one step	*Skills*	
Advisory Lesson #1 Oct 4, 2021	Numberless word problems—Close reading of real-world situations with addition and subtraction and relating them to operations. Whole group: Work through the two numberless problems in THIS SLIDE DECK. Use think-pair-share and randomization during the class discussion. Small group: Give each group a problem stem. Groups collaborate to finish creating the problem and then create a model solution on legal size paper. Groups switch problems and show their solution on legal size paper. Groups match each solution to the model to check their work. Close: In your journal, record at least 3 phrases/situations that can be used in a word problem and the operation(s) you might use to represent them		
Advisory Lesson #2 Oct 5, 2021	Review setting up and using a strip diagram with addition and subtraction problems. Whole group: Review Strip Diagram Anchor Chart on wall and in student notebooks. Model setting up and solving a strip diagram using randomization for student input. Small group: Pull targeted group to work with teacher, other students work independently. Give each group 4 problems to solve with strip diagrams. Some problems have partially completed strip diagrams already provided. Work with targeted group to guide them through setting up and solving the same 4 problems. Close: Exit slip with one problem students must use a strip diagram to solve. Collect the exit slips and immediately sort into piles. Record students that need further support with strip diagrams.		

Advisory Lesson #3 Oct 6, 2021	Intro to equations and representing an unknown quantity with a variable. Whole group: Create an anchor chart that shows the meaning of VARIABLE, EQUATION, and UNKNOWN QUANTITY for the wall and student notebooks. Model solving one step equations with a variable using manipulatives. Using think-pair-share and randomization, have students identify real-world situations that match the equation. Small group: Give each group an equation with a variable and ask them to model it with manipulatives then come up with a situation that describes the equation.
Advisory Lesson #4 Oct 7, 2021	More equations and variables Whole group: Review the anchor chart created for equations using think-pair-share and randomization. Model setting up a strip diagram for a simple equation with a variable and solving. Small group: Work with targeted students at teacher table. Give each group two equations with variables they must solve by setting up and using a strip diagram. In the targeted teacher group, work with students who needed further support with strip diagrams to solve two equations. Close: In your journal and using your anchor chart, write 3 sentences about what the word variable means and how it is used in math equations.
Acceleration Focus for Elective Classes	Close reading of real-world verbal descriptions Setting up and using strip diagrams, area-models, partial products and standard algorithm to solve multiplication problems.
Other Acceleration Opportunities	● Guided instruction during math block ● Assign relevant lessons in virtual learning program for extra practice at school and home ● Learning Lab before and after school—add ANCHOR CHARTS and model solutions to the 3rd binder for helpers to reference with students seeking help.