

Lesson Title: Building fluency with Median, Mode, Mean, and Range

Unit Learning Target (Standard/Performance Expectation(s)) 5.5.B Determine and interpret the mean of a small data set of whole numbers. CCSSM 6.SP.5.c					
Building Block or Lesson Learning Target:		Student Success Criteria:			
Define, demonstrate and calculate the arithmetic mean of a given data set		Submit on or	and non or with the easier of		
		Submit an organized paper with the assigned			
Demonstrate and define the meaning of statistical terms data median mode and range and		ciassi ooni ua	ta la		
explain how to collect data and write statements about data					
Target Introduction/ Thinking Question * What do you think are the average number of letters in the first names of the students in this classroom? How would you find that number?					
Lesson Progression (Flow) with Talk-Structures (Student Discourse)	Key terms for this lesson mean median mode		Formative Task or Question* Designed to elicit student misconception(s)		
• Review vocabulary and their definitions	central tendency, average,		What does the mode tell you about a		
• Problem solve with a partner, given five names from students in this class, what is	range, data, arithmetic,		set of data?		
the typical length of a student's first name? (show more than 1 way)	midpoint, distribution,		What does the median tell you about a		
• Students share with the class their various answers and discuss supporting evidence.	frequency, data set,		set of data?		
• Ask each student to write a statement about their 5 name data information.	number set, sample set,				
• Return to your classroom data and organize it, write a statement using correct	outlier, statement, T-table,				
vocabulary, point out what you notice about the data, and why you think it is typical	central tende	ency			
or not.	Forms of Student Discourse to include: Student to student				
• If a new student joins the class what do you expect the length of the student's first	Student to Student				
name to be?	Students sharing organization ideas				
• If you remove one name from your list, can it be done so there is no change to the	Small group discussions				
mean, mode, or median? Can one name be removed so the mean, median, or the mode increases?	Large grou	p discussions			
• Assign homework problems to practice finding median, mode, mean and range.					
Lesson Closure	Exit Task*				
Students will fill out the "I Learned" exit pass and turn it in to the teacher.	Student Exit Pass – "I Learned"				

Math & Science Collaborative Lesson Plan



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Do the Math for the Thinking Question		Lesson Anticipated Misconceptions:	
		Students not knowing how to label the graph axes	
Calculations will vary depending on the list of student names		Students not ordering the data before finding the median and mode	
		Students not knowing what to do with an even number of data entries when finding the median	
		Student confusion over the mening of Range, median, and mode	
Lesson Instructional Adjustment(s) (if needed) Tied to common misconception(s)	Manipulatives and materials to include and have ready to support the lesson *		
	Unifix cubes Graph paper Bulers and Colored Pencils		
	Rulers and Colored Feneris		

* Opportunity for formative assessment