Unit Plan by Prioritized Standards

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Content Area	MATH			
Grade/Course	6th			
Unit of Study	Statistics			
Duration of Unit	12 days - 3 weeks			
Insert priority standards below (include code). CIRCLE or Highlight the SKILLS that students need				
to be able to do and UNDERLINE the CONCEPTS that students need to know. (address				
"supporting" standards in daily lesson plans)				
 MGSE6.SP.1. Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers. For example, "How old am I?" is not a statistical question, but "How old are the students in my school?" is a statistical question because one anticipates variability in students' ages. MGSE6.SP.2. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center. spread. and overall shape. MGSE6.SP.3 Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number. MGSE6.SP.4. Display numerical data in plots on a number line, including dot plots, histograms, and box plots. MGSE6.SP.5 Summarize numerical data sets in relation to their context, such as by: a. Reporting the number of the attribute under investigation, including how it was measured and its units of measurement. c. Giving quantitative measures of center (median and/or mean) and variability (interquartile range). d. Relating the choice of measures of center and variability to the shape of the data 				
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	ills	Concepts	DOK Level /	
· · · ·	be able to do)	(what students need to know)	Bloom's	
 Recognize a "statis one that anticipates 		The answer to a statistical question	1/	
data		has data to support its answer	1/2	
•	bed by its center,	has data to support its answer A data set has a distribution that can be described	1/2 2/3	

	1/				
Display data in a line plot, histogram	1/2				
and box-and-whisker plot					
	27				
Summarize numerical data sets in	2/3				
relation to their context					
	Chara (Murita Francestial Oceantians				
Step 5: Determine BIG Ideas (enduring understandings	Step 6: Write Essential Questions				
students will remember long after the unit of study)	(these guide instruction and				
	assessment for all tasks. The big ideas				
	are answers to the essential questions)				
Recognize that statistical questions and the answers	• What is the best way to organize a set				
account for variability in the data.	of data?				
• Understand that a set of data collected to answer a	 What kinds of graphs will best 				
statistical question has a distribution which can be	represent a given set of data?				
described by its center, spread, and overall shape.					
	• How can I describe the center of a set				
• Recognize that a measure of center for a numerical	of data?				
data set summarizes all of its values with a single					
number, while a measure of variation describes how its	• How can I decide which measure of				
values vary with a single number.	center (i.e., mean or median) best				
	describes the data?				
• Understand that numerical data can be displayed in	describes the data.				
plots on a number line, including dot plots, histograms,	How do I choose and create				
and box plots.	appropriate graphs to represent data?				
Summarize numerical data sets in relation to their	appropriate graphs to represent data:				
	• What conclusions can be drawn from				
context, such as by:					
Departing the number of charmeticus	data?				
 Reporting the number of observations. 					
• Describing the nature of the attribute under					
investigation, including how it was measured					
and its units of measurement.					
Giving quantitative measures of center (median					
and/or mean) and variability (range or					
interquartile range), as well as describing any					
overall pattern and any striking deviations from					
the overall pattern with reference to the context					
in which the data were gathered.					
 Relating the choice of measures of center and 					
variability to the shape of the data distribution					
and the context in which the data were gathered					
	Essential Unit Vocabulary				
Essential Unit Vocabu	llary				

•Mean •Median •Minimum/Maximum Value •Outlier •Skewed data •Range •Measures of Central Tendency

Next step, create assessments and engaging learning experiences