Cornell Notes	Topic/Objective: TEKS: 8.11B Determine the MAD and use this quantity as a measure of the avg. distance data are from the mean using a data set of no more than 10 data points.		Name:			
Decades of College Dreams		•	Class/Period:			
			Date:			
Essential Question: How can you determine and use the mean absolute deviation of a set of data points?						
Questions:		Notes:				
What is mean absolute deviation (MAD)?		The mean absolute deviation is a measure of variation. The MAD is the average of how far the elements in a data set are from the "mean" of the data set.				
		YOU MAD?????				
		Steps for Calculating MAD 1. Find the average of your data set 2. Calculate the absolute value of each data points distance from the average found in Step 1 3. Find the average of those distances found in Step 2. Example 1: Student A has test scores 85, 89, 82, 78 and 89. Student B has test scores 70, 85, 72, 95, and 83. Find the MAD for each student and determine who the more consistent test taker is.				
How can I find the absolute deviation following set {3,6,6,7,8,11,15,16	of the	Example: the Mean Deviation of Step 1: Find the mean: $Mean = \frac{3+6+6+7+8+}{8}$				

Step 2: Find the di	stance of each	value from that	mean:		
	Value	Distance from 9			
	3	6			
	6	3			
	6	3			
	7	2			
	8	1			
	11	2			
	15	6			
	16	7			
	Mean Deviation = $\frac{6+3+3+2+1+2+6+7}{8} = \frac{30}{8} = 3.75$ So, the mean = 9, and the mean deviation = 3.75 Math TALK! What is the difference between a measure of center and a measure of variability?				
"middle" or cento variability is a nu	A measure of center is a number that indicates where the "middle" or center of a data set is, while a measure of variability is a number that indicates how much the data are spread out from the center of the data.				
Summary: "CREATE YOUR OWN SUMMARY"					