Cornell Notes	Topic/Objective: Scientific Notation (8.2C)		Name:	
Y			Class/Period:	
AVID°			Date:	
Essential Questi	n: How do I convert bet	ween standard decimal notati	on and scientific notation?	
	* =			
Questions:	Notes:	Notes:		
7 .54 8	Standard decin	mal notation is the	way we see numbers written.	
	Examp	ole: 2,310,000		
		0.000973		
	Scientific notat	Scientific notation is a way to express New Jarge and numbers. Scientific notation is written as a product of a number area or equal to 1 and less 10, times a power of 10. Example: 2.31 x 10 ⁶ \(\subseteq \text{Very large number} \) 9.73 x 10 ⁻⁴ \(\subseteq \text{Very small number} \)		
	Scientific notat			
	equal to 1 and \(\)			
	Examp			
	→ The	→ The first factor in scientific notation MUST be between 1 and 10.		
		1 < x < 10		
	Are all of these	Are all of these written correctly in scientific notation? Why or why not?		
	1.8 x 10 ³	1.8 x 10 ³ 0.6 x 10 ⁻⁸ 45 x 10 ⁴		
	Yes! 1.8	15 between No: 0.1	o 1srit No! 45 Isrit between 1 +10. 1 +10.	
Summary:				
	* - I * * *			

Questions:	Notes: Standard Decimal Notation → Scientific Notation 1. Draw an arrow so there is one number to the left of the arrow. Put a decimal point at the tip of the arrow. You just created a number between 1 and 10. 2. Count the spaces from the arrow to the original			
	This number is your exponent number. It will be positive or negative depending on			
	which way you moved when you went from arrow to decimal.			
	Move right: exponent Move left: exponent			
	3. Write in scientific notation by using the number from Step 1 (with the new decimal			
	instead of the arrow) times 10 raised up to the exponent number from Step 2. $62,000 = 6.2 \times 10^{4}$ $0.00008852 = 2.852 \times 10^{-5}$ $0.073 = 7.3 \times 10^{-2}$ Scientific Notation \rightarrow Standard Decimal Notation 1. Circle the exponent.			
	2. Move the point left or right the number of times shown by the			
	Positive exponent: Move decimal Negative exponent: Move decimal			
	4. Put zeros in the			
		7.25 x 10 ³ = 7 25 000 5x 10 ³ = 0.05		
	7.25000			
•	9.06 x 10@= 0.000900 6.024 x 10@= 6.024 x 10			
	la 92tice			