

Cornell Motes

## **Estimating Large and Small Quantities**

## Today's Standard

8.EE.A3 - Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other. For example, estimate the population of the United States as 3 times 10^8 and the population of the world as 7 times 10^9, and determine that the world population is more than 20 times larger.

Cues	Notes
Scientific notation	Scientific notation is a way to express very large or very small numbers using a single digit and an exponent of 10.
Estimating large quantities	
	To estimate large quantities, convert numbers to scientific notation and
Estimating small quantities	compare their exponents.
Comparing quantities	To estimate small quantities, use scientific notation to simplify the numbers and make comparisons easier.
Exponent rules	
	When comparing quantities, look at the exponents to determine which number is larger or smaller.
	Understanding exponent rules is crucial for working with scientific
	notation effectively.

## Summary

Scientific notation helps estimate and compare very large or very small quantities. Understanding exponent rules and how to use scientific notation is essential for handling real-world data.