

Cornell Motes

Density in Geometric Modeling

Today's Standard

HSG.MG.A2 - Apply concepts of density based on area and volume in modeling situations (e.g., persons per square mile, BTUs per cubic foot).*

Cues	Notes
What is density?	Density is a measure of how much of something exists within a given area or volume.
How do you calculate area?	
How do you calculate volume?	Area is calculated by multiplying the length and width of a two-dimensional shape.
What are real-world applications of density?	Volume is calculated by multiplying the length, width, and height of a three-dimensional object.
What are common misconceptions about density?	Density is used in urban planning, building design, manufacturing, and transportation engineering.
	Common misconceptions include confusing area and volume, and misunderstanding density as an absolute value rather than a ratio.

Summary

Understanding density in geometric modeling is crucial for solving real-world problems. It involves calculating area and volume and applying these concepts to various fields. Common misconceptions can be addressed through visual aids and practical examples.