

Common Core Standards - Resource Page

The resources below have been created to assist teachers' understanding and to aid instruction of this standard.

Domain	Standard: G.MG.2 - Apply concepts of density based on area and volume in modeling situations (e.g., persons per square mile, BTUs per cubic foot). *(Modeling Standard)
<p><u>Modeling with Geometry</u> Apply geometric concepts in modeling situations</p>	<p><u>Questions to Focus Learning</u> How can area and volume be used with the concept of density? The concept of density can be used to describe real-world situations.</p> <p><u>Student Friendly Objectives</u> <i>Knowledge Targets</i> I know the concept of density as applied to area and volume.</p> <p><i>Reasoning Targets</i> I can calculate the density of an area given a quantity and the shape of the region. I can calculate the density of a volume given a quantity and the shape of the solid.</p> <p><u>Vocabulary</u> density mass density region weight density</p>

	<p><u>Teacher Tips</u></p> <p>When studying the area and volume, focus on situations that require relating two- and three-dimensional objects, determining and using volume, and the trigonometry of general triangles.</p> <p>Measure and average the diameter of a human head to approximate its volume.</p> <p>Find the change in volume of a liquid, in a known solid, to calculate the volume of an irregular object. (i.e., apply Archimedes' Principle)</p> <p><u>Vertical Progression</u></p>
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The above information and more can be accessed for free on the [Wiki-Teacher](#) website.

Direct link for this standard: [G.MG.2](#)