

Any standard **highlighted in yellow** has been determined by our WCSD teachers, district and state experts as essential for students to master.

<p>Strand 11.G.MG: I can apply geometric concepts in modeling situations (Standards G.MG.1-3).</p>			
<p>Standard 11.G.MG.1: I can use geometric shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or a human torso as a cylinder).</p>			
<p>Learning Targets</p> <ul style="list-style-type: none"> I can measure geometric shapes and identify their properties. I can use this information to describe objects. 	<p>Academic Vocabulary & Notation</p> <ul style="list-style-type: none"> geometric shapes, identify, properties 	<p>Question Stems</p> <ul style="list-style-type: none"> How does _____ relate to another shape (fill in the blank)? 	<p>Possible Assessments</p> <ul style="list-style-type: none"> <u>District CFAs</u>
<p>Standard 11.G.MG.2: I can apply concepts of density based on area and volume in modeling situations (e.g., persons per square mile, BTUs per cubic foot).</p>			
<p>Learning Targets</p> <ul style="list-style-type: none"> I understand density as a ratio. I can differentiate between area and volume densities, their units, and situations in which they are appropriate. 	<p>Academic Vocabulary & Notation</p> <ul style="list-style-type: none"> density 	<p>Question Stems</p> <ul style="list-style-type: none"> You are researching two job offers: one in Georgia and one in Massachusetts. Being from a small town, you really enjoy your space and don't want to live in a heavily populated area. Massachusetts has a population of 6.6 million. Georgia has a population of 9.8 million. Which state seems like the better choice based solely on population? 	<p>Possible Assessments</p> <ul style="list-style-type: none"> <u>District CFAs</u>

Standard 11.G.MG.3: I can apply geometric methods to solve design problems (e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems based on ratios).

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
<ul style="list-style-type: none"> • I can design solutions to problems through geometric modeling. 	<ul style="list-style-type: none"> • maximize, minimize, optimize, constraints 	<ul style="list-style-type: none"> • Design an object or structure to satisfy physical constraints or minimize cost, working with typographic grid systems based on ratios. • Maximize the number of parking spaces in a given complex shaped parking lot. Work with given constraints such as standard parking stall size, area needed between sections of stalls, etc. • Justify your work and answer. 	<ul style="list-style-type: none"> • <u>District CFAs</u>