

# 10th Grade Geometry - Unit 10 Area & Volume

Bronx Early College Academy

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15 April 2019

10.1 Solids and Their Cross Sections Monday 15 April

10.2 Geogebra - Area Situations in Sports Tuesday 16 April

## GQ: How do we slice 3-dimensional objects?

CCSS: HSG.CO.D.12 Congruence, geometric constructions

10.1 Monday 15 April

### Do Now Solids handout

1. Review the handout
2. Open your notebook to Friday's lesson
3. Write from memory the formulas for a circle's circumference and area

Lesson: Solids and cross sections of 3-dimensional figures

Homework: Practice problems handout

## GQ: How do we measure the areas of competitive sports?

CCSS: MP5 Use appropriate tools strategically: dynamic geometry software 10.2 Tuesday  
16 April

Project: Quantify the area of a playing field of your choice

1. Write a paper illustrating why a polygon's internal angles sum to  $S = (n - 2)180^\circ$ , where  $n$  is the number of sides
2. Spicy: Use color & line variations for clarity (not decoration)
3. Construct in Geogebra, compile in Word: add heading & title, text, and formulas using Microsoft's equation editor
4. Email me: Last-Title.pdf, with subject line & message
5. Rubric: correct, aesthetics, MLA & email standards

SAT tomorrow, Test corrections due Thursday

Homework: Complete project (due by 10:00 pm), problem set