# Mathematics Class Slides Bronx Early College Academy

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28 January 2020

- 8.1 Circle and volume formulas, Tuesday 28 January
- 8.2 Estimating, measuring, scale models, Wednesday 29 January
- 8.3 Density, Thursday 30 January
- 8.4 Equation of a circle, Friday 31 January
- 8.5 Cross sections in 3-dimensions, Monday 3 February

GQ: How do we calculate the area and circumference of a circle?

CCSS: HSG.GMD.A1 Circle formulas for circumference and area 8.1 Tuesday 28 January

#### Do Now: Area and volume problems

- Area of triangles and parallelograms
- Volume formula practice
- Circle area and circumference
- Circle vocabulary

Lesson: Circle formulas & terminology; Solids formula notation (start with a label variable, A, V, C, P)

Homework: Review reference sheets; Deltamath

## GQ: How do we estimate and work with appropriate precision?

CCSS: HSG.SRT.GMD.A3 Use volume formulas to solve problems 8.2 Wednesday 29 January

#### Do Now: Area and volume problems

- ► Circle area and circumference
- Volume formula practice
- Circle vocabulary

Lesson: Scale drawings; Counting squares to estimate area, rounding
Compound shapes

Homework: Khan Academy volume review and introduction to density (watch video)

## GQ: How do we apply density ratios to calculate weight?

CCSS: HSG.MG.A2 Apply concepts of density to model 8.3 Thursday 30 January

#### Do Now: Estimating and rounding problems

- Scale drawing problems
- Area and volume formula practice
- ▶ Solving in terms of  $\pi$  and rounding
- Compound shapes

Lesson: Density ratios, unit changes, cost calculations

Homework: Khan Academy

## GQ: How do we define a circle using analytic geometry?

CCSS: HSG.GPE.A1 Equation of a circle of given center and radius 8.4 Friday 31 January

Do Now Quiz: Area and volume problems

Classwork counts double while Dr. Huson is out!

- Circle vocabulary
- Area and volume formula practice
- ightharpoonup Solving in terms of  $\pi$  and rounding
- Compound shapes

Lesson: Equation of a circle  $(x - a)^2 + (y - b)^2 = r^2$ 

Homework: Deltamath due Sunday 10:00pm

### GQ: How do we imagine an object cut by a plane?

CCSS: HSG.GPE.A1 Equation of a circle of given center and radius 8.5 Monday 3 February

#### Do Now Quiz: Area and volume problems

#### Classwork counts double while Dr. Huson is out!

- Circle vocabulary
- Area and volume formula practice
- ▶ Solving in terms of  $\pi$  and rounding
- Compound shapes

Lesson: Cross sections in 3-dimensions

Homework: Deltamath due 10:00pm