

Mathematics Class Slides

Bronx Early College Academy

Chris Huson

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 (10.1 only), Friday 31 January

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

Classwork counts double while Dr. Huson is out!

- ▶ 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

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 π 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

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

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

Homework: Khan Academy