Mathematics Class Slides
Bronx Early College Academy

Chris Huson

2 October 2018

BECA / Dr. Huson / Geometry Unit 3

GQ: How do we calculate the volume of a prism?

CCSS: HSG.CO.A.1 Know precise geometric definitions   3.1 Wednesday 2 Oct

Do Now: Angle terminology

1. Adjacent & non-adjacent angles
2. Complementary & supplementary angles (perpendicular)
3. Vertical angles
4. Organizing the work for a solution

Lesson: Definitions: prism, base, face, edge

Test corrections / analysis

Theorem: Vertical angles are congruent; classwork practice

Homework: Problem set 3-1

GQ: How do we construct the bisector of a given angle?

CCSS: HSG.CO.A.1 Know precise geometric definitions   3.2 Thursday 3 Oct

Do Now: Area and volume practice

1. Area of a rectangle, square, and triangle
2. Solving for a unknown parameter
3. Prism volume calculation, solving for unknown
4. Vertical angle situations

Lesson: Angle bisectors

Construct the bisector of an angle

Homework: Problem set 3-2

GQ: How do we calculate the area of a parallelogram?

CCSS: HSG.CO.A.1 Know precise geometric definitions   3.3 Monday 7 Oct

Do Now: Area and volume practice

1. Construct a perpendicular through a point
2. Volume and the area of a compound shape
3. Vertical, supplementary, and complementary angles

Lesson: The area of a parallelogram $A = bh$

Solving angle bisector problems

Homework: Problem set 3-3

GQ: How do we calculate the area of a parallelogram?

CCSS: HSG.CO.A.1 Know precise geometric definitions   3.4 Tuesday 8 Oct

Area and volume practice

1. –

Lesson:

Construct

Homework: Problem set 3-4

GQ: How do we calculate the sum of a $\triangle$'s internal angle measures?

CCSS: HSG.CO.A.1 Know precise geometric definitions   3.5 Thursday 10 Oct

Angle situations

  1. –

Lesson:

Construct

Homework: Problem set 3-5

GQ: How do we know the base angles of an isosceles triangle?

Line segment practice

1. –

Lesson:

Theorem: the base angles of an isosceles triangle are congruent

Homework: Problem set 3-6

GQ: How do we work with angle situations?

CCSS: HSG.CO.A.1 Know precise geometric definitions   3.7 Monday 14 Oct

Line segment practice

　　1. –

Lesson:

Homework: Problem set 3-7

GQ: How do we construct an angle bisector?

CCSS: HSG.CO.A.1 Know precise geometric definitions   3.8 Tuesday 15 Oct

Laptops: Construct an angle bisector

1. Use Geogebra to construct an angle bisector
2. Write a short (one page) paper presenting your work

Lesson:

Homework: Pretest problem set 3-8

GQ: How do we work with angle bisectors and volumes?

Line segment practice

　1. –

Lesson:

Construct

Homework: Problem set 3-9

GQ: How do we work with angle bisectors and volumes?

CCSS: HSG.CO.A.1 Know precise geometric definitions   3.10 Thursday 17 Oct

Assessment: Unit exam, Volumes and angle bisectors

Homework: Problem set 3-10