

# Mathematics Class Slides

Bronx Early College Academy

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2 October 2018

3.1 Volume formula, vertical angle congruence, 2 October

3.2 Angle bisectors, construction, 3 October

High School MAP math testing, 4 October

3.3 Area of a parallelogram, 7 October

3.4 Quiz, Laptop construction paper makeup, 8 October

3.5 Sum of a triangle's internal angle measures is  $180^\circ$ , 10 October

3.6 Isosceles triangle base theorem, 11 October

3.7 Angle and volume practice, 14 October

3.8 Laptops, 15 October

3.9 Review for unit exam, 16 October

3.10 Unit exam, 17 October

## 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

Check Pupilpath and complete missing assignments

1. Projects: hand construction of equilateral triangle
2. Geogebra construction of equilateral triangle
3. MS Word paper with four constructions
4. email to husonbeca@gmail.com

Lesson: Using KhanAcademy to practice Geometry

Teacher: DrHuson, Class code: MPFQ83

Homework: Online Khan assignment

## 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?

CCSS: HSG.CO.A.1 Know precise geometric definitions

3.6 Friday 10 Oct

### 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?

CCSS: HSG.CO.A.1 Know precise geometric definitions

3.9 Wednesday 16 Oct

### 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