

# Mathematics Class Slides

## Bronx Early College Academy

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24 September 2018

2.1 Midpoint definition & calculations, 16 Sept

2.1 Project criteria

1.4 Laptops: Pupilpath & Geogebra equilateral triangle, 10 Sept

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1b.3 Drui: Vertical angles. Wednesday Sept 26

1b.4 Drui: Construct perpendicular bisector. Thursday Sept 27

1b.5 Drui: Construct angle bisector. Friday Sept 28

1b.6 Drui: Midpoints. Monday Oct 1

1b.7 Drui: Deltamath. Tuesday Oct 2

1b.8 Drui: Midpoints. Wednesday Oct 3

1b.9 Drui: Review. Thursday Oct 4

1b.10 Drui: Test. Friday Oct 5

## GQ: How do we bisect a line segment?

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

2.1 Monday 16 Sept

### Segment addition and measurement practice

1. Equilateral triangle construction
2. Measuring and calculating length
3. Segment addition situations

Lesson: Definitions: midpoint, bisect, trisect, perpendicular

Test corrections / analysis

Construction: Perpendicular bisector

Demonstration: Geogebra equilateral triangle

Homework: Problem set 2-1

## GQ: How do we present mathematical work?

CCSS: HSG.CO.D.12 Congruence, Make geometric constructions 2.1 Monday 16 Sept

### Criteria for construction projects

1. Complete and correct construction
2. MLA layout: First & last name / Dr. Huson / 10.x Geometry  
/ 17 September 2019  
Title centered (no underlining)
3. Precise, elegant, mathematical aesthetic
4. Spicy: Steps written with proper notation

Grading policy: full credit or redo

(collect exams and projects in your personal classroom binder)

## GQ: How do we use computer technology?

CCSS: MP4 Use technology appropriately

1.4 Tuesday 10 Sept

Do Now: Boot up laptop, Pupilpath, [geogebra.org > geometry](https://www.geogebra.org/m)

1. Always use the laptop with your number
2. Write down your Geometry grade (from Pupilpath) in your notebook
3. Log into your personal email
4. Open [geogebra.org > geometry](https://www.geogebra.org/m)
5. Explore & play!

Lesson: Geogebra equilateral triangle construction

MLA headings: First+Last Name / Dr. Huson

10.x Geometry / 10 September 2019

Homework: Parent Pupilpath checklist

## GQ: How do we use geometric notation?

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

1.4 Tuesday 10 Sept

### Do Now: Laptop setup

1. Use your assigned laptop number
2. "Lids down" for group focus
3. Return laptops to proper slot number, charging cable

Deltamath geometry notation;

Challenge Geogebra construction

Homework: Angle measure, algebra problems

## GQ: How do we classify angle pairs?

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

1.4 Tuesday 10 Sept

### Do Now: Practice and review

1. Segment addition problem
2. Equilateral triangle construction
3. Segment replication

Construct a congruent line segment

1-5 Exploring Angle Pairs pp. 34-37

Classwork problems 7-26 odds pp. 38

Review Friday's Exam.

Homework: Exam corrections due Wednesday

## GQ: How do we classify angle pairs?

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

1b.3

### Do Now: Construction practice and review

1. Given  $\overline{AB}$ , construct a congruent line segment
2. Given  $\overline{DE}$ , construct an equilateral triangle

1-5 Exploring Angle Pairs pp. 34-37

Classwork problems 7-26 odds pp. 38

Construct a perpendicular bisector

Homework: Angle pair practice



## GQ: How do we classify angle pairs?

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

1b.4

Do Now: Angle pair practice. Show steps, including the check.

1. Given two supplementary angles:  $m\angle 1 = 50$ ,  $m\angle 2 = x$ .  
Find  $x$ .
2. Given two complementary angles:  $m\angle 1 = x + 10$ ,  
 $m\angle 2 = x + 20$ . Find  $m\angle 1$ .
3. Given two vertical angles:  $m\angle 1 = 3x + 10$ ,  $m\angle 2 = 55$ .  
Find  $x$ .

1-5 Exploring Angle Pairs pp. 34-37

Classwork problems 8-30 evens pp. 38-39

Construct a perpendicular bisector

Homework: Angle pair practice

## GQ: How do we do classical constructions?

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

1b.5

Do Now: Angle pair practice

Constructions due today: Complete, correct, precise, elegant

Standard header. (you may combine constructions on same page)

1. Equilateral triangle (you may combine on same page)
2. Congruent segments
3. Perpendicular bisector
4. New: Angle bisector
5. Spicy: Flower design p. 42

Classwork problems 3-25 odds pp. 41

Homework: Angle pair practice

## GQ: How do we calculate the midpoint of a segment?

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

1b.6

Do Now: Angle pair practice. Show steps, including the check.

Binder project: Exam, corrections; best of each construction

Review test corrections problems, handout

Deltamath review, Skedula check (HW)

Midpoint calculations: average method, vector method Homework:

Pretest, Skedula check in notebook

## GQ: How do we calculate the midpoint of a segment?

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

1b.6

### DeltaMath review

1. Credit for working on DeltaMath after school: Guadalupe, Crismeiris, Janessa, Janicksa, Jesus
2. Finding slope graphically
3. Constructing an Equilateral Triangle

Hint: Start tasks in order

Complete only the required number of a problem type

If making multiple errors, move to next task type

Let me know if you can not access at home

## GQ: How do we practice our geometry skills?

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

1b.7

### Do Now: Laptop setup

1. Use your assigned laptop number
2. "Lids down" for group focus
3. Return laptops to proper slot number, charging cable

Deltamath geometry notation;

Challenge Geogebra construction

Homework: Complete Deltamath problems

## GQ: How do we calculate the midpoint of a segment?

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

1b.8

Do Now: Mixed Review #39-47 p. 48. Loose leaf paper

Binder project: Exam, corrections; best of each construction

Review test corrections problems, handouts

Midpoint calculations p. 50-51, #6-21 p. 54

Homework: Pretest, Skedula check in notebook

## GQ: How do we review for a test?

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

1b.9

Do Now: Mixed Review #65-68 p. 56. Loose leaf paper

Pretest review

Homework: Study for exam tomorrow

## GQ: How do we use the tools of geometry?

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

1.10

Do Now: (Test)

Test

Homework: Angle measure algebra problems