

Mathematics Class Slides

Bronx Early College Academy

Chris Huson

24 September 2018

2.1 Midpoint definition & calculations, 16 Sept

2.2 Laptops: Pupilpath & Geogebra equilateral triangle, 17 Sept

2.3 Triangle area formula, 18 Sept

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.8 Drui: Midpoints. Wednesday Oct 3

1b.9 Drui: Review. Thursday Oct 4

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 use computer technology?

CCSS: MP4 Use technology appropriately

2.2 Tuesday 17 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

"Lids down" for group focus

Return laptops to proper slot number, charging cable

Homework: Parent Pupilpath checklist

GQ: How do we present mathematical work?

CCSS: HSG.CO.D.12 Congruence, Make geometric constructions 2.2 Monday 17 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 calculate the area of a triangle?

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

2.3 Wednesday 18 Sept

Bisector and measurement practice

1. Midpoint calculations
2. Measuring an obtuse angle
3. Drawing a rectangle
4. Half rectangle areas

Lesson: Triangle area $A_{\triangle} = \frac{1}{2}bh$

Midpoint average method, vector method

Homework: Problem set 2-3

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. Finding slope graphically
2. 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 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