Mathematics Class Slides

Bronx Early College Academy

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5-21 September 2018

1.1 Drui

1.2 Drui

1.3 Drui

1.4 Drui

1.5 Drui

1.6 Drui

1.7 Drui

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1.9 Drui

GQ: How do we define the basic elements of geometry?

CCSS: HSG.CO.A.1 Know precise geometric definitions 1.1

Welcome back to school

Do Now Handout: Algebra skills check

1. Assigned seating: Without saying a word (!), arrange yourself alphabetically by last name, left to right, front to back.
2. Take out notebooks (or blank paper) & calculator
3. Complete signin sheet *in order by last name*

Lesson: Definitions: point, line, plane, ray, segment, end point, colinear, coplanar, congruent, distance or length, angle, vertex
Segment addition postulate (classwork handout)
Early finishers: How should the papers be handed in to be in order?
Homework: Problem set 1-1 Vocabulary and terminology

GQ: How do we construct geometric figures?

CCSS: HSG.CO.D.12 Congruence, Make geometric constructions 1.2

Do Now: Problems 75-80 pg 19

Homework review
Riddle on page 3
Lesson: Opposite rays, intersection, p. 13-15
Project: Introduction to compass use
Calculator deposits $20
Homework: Algebra skills assessment

GQ: How do we construct an equilateral triangle?

CCSS: HSG.CO.D.13 Construct an equilateral triangle 1.3

Do Now Quiz

1. Notation and terminology

Lesson: Circle notation; "Sketch", "draw", "construct"; "Given"

Euclid's first construction

1. Steps in the construction
2. Logic: Why does it work?
3. Assessment criteria: precision, correct & complete, elegance or beauty

Homework: Geometry and algebra practice
Due: notebook, folder, compass, ruler, protractor, calculator

GQ: How do we work in three dimensions?

CCSS: HSG.CO.A.1 Know precise geometric definitions 1.4

Do Now: I have a compass, notebook, and calculator

1. Tools checklist
2. Notation
3. Segment addition, absolute value
4. Equilateral triangle construction

Plane geometry pp. 14-17
Problems #1-20 p.16

Homework: Pre-quiz geometry and algebra practice
Construction project due Friday (hexagon challenge)

GQ: How do we measure distance?

CCSS: HSG.CO.D.12 Congruence, Make geometric constructions 1.5

Do Now: I have a ruler and protractor

1. Plane geometry
2. Measure lengths

Midpoint, bisector, step-by-step solving distance algebra
Problems pp. 20-24, #1-5, 8-20

Homework: Distance algebra problems, challenge p. 26
Construction project due tomorrow (hexagon challenge)

GQ: How do we measure angles?

CCSS: HSG.CO.A.1 Know precise geometric definitions 1.6

Do Now quiz - Project due

1. Notation
2. Segment addition, absolute value
3. Equilateral triangle construction

Angle terminology, types; protractor use pp. 27-29
Problems #1-20 (odds) p.31

Homework: Angle notation

GQ: How do we use geometric notation?

CCSS: HSG.CO.A.1 Know precise geometric definitions 1.7

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: Angle measure, algebra problems

GQ: How do we use the tools of geometry?

CCSS: HSG.CO.A.1 Know precise geometric definitions 1.8

Do Now: Practice, construction

1. Use your protractor, ruler, and compass

Review

Homework: Pre-test

GQ: How do we use the tools of geometry?

CCSS: HSG.CO.A.1 Know precise geometric definitions 1.9

Do Now: Angle measure practice, construction

1. Use your protractor, ruler, and compass

Test review

Homework: Study for test

GQ: How do we use the tools of geometry?

CCSS: HSG.CO.A.1 Know precise geometric definitions 1.9

Do Now: (Test)

Test

Homework: Angle measure algebra problems