Mathematics Class Slides
Bronx Early College Academy

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9 October 2018

1c.0 Project criteria

1c.0 Notetaking criteria

1c.1 Drui: Deltamath. Tuesday 9 October

1c.2 Drui: Distance formula. Wednesday 10 October

1c.3 Drui: Distance formula. Thursday 11 October

1c.4 Drui: Distance formula. Friday 12 October

GQ: How do we present mathematical work?
CCSS: HSG.CO.D.12 Congruence, Make geometric constructions   1b.0

Complete binder: Due Friday

Exam 1 + corrections; exam 2 (optional corrections); 5 best construction:

Equilateral triangle, Congruent segment & angles, bisected segment & angle

Criteria for construction projects

1. Complete and correct construction
2. Steps written with proper notation
3. Layout: GQ title, date on left; first & last name on right
4. Precise, elegant, mathematical aesthetic

Grading policy: full credit 20, minus 2 points for each missing

GQ: How do we organize our mathematical notes?
CCSS: HSG.CO.A.1 Know precise geometric definitions   1b.0

Criteria for notebook project grade (20 points)

1. Your name and "Geometry" on cover
2. Toward front: math.huson.com, husonbeca@gmail.com, 917-648-5632, Deltamath teacher ID: 546068
3. Labeled composition book out during class; GQ, date each day
4. Definitions, postulates, constructions, & theorems
5. Combination of symbols, diagrams, text (best: your own words)
6. Examples, but not practice problem sets

Grading policy: daily tracker, pop notebook checks

GQ: How do we use geometric notation?
CCSS: HSG.CO.D.12 Congruence, Make geometric constructions   1c-1

Do Now: Write down Geogebra assignment steps

1. geogebra.org $>$ New Math Apps $>$ Geometry
2. Use segment, circle, intersection (point), polygon,
   & text (click "More") tools. Optional: Construction steps
3. Print preview; print hardcopy after my approval
4. Login to Geogebra account and save work (title something like
   "1c-1_Construction...")
5. Reminder: Use your assigned laptop number
   Return laptops to proper slot number, charging cable

Geogebra construction, Deltamath practice
Test review

Homework: Complete deltamath (10pm deadline)

GQ: How do we calculate distance using the Pythagorean theorem?

CCSS: HSG.GPE.B.7 Compute areas and perimeters using the distance formula   1c.2

Do Now: Midpoint and segment partition practice. Given $A(3, 0), B(15, 0)$

1. Find the distance between A and B
2. Find the midpoint of $\overline{AB}$
3. Find the point one-third of the way from A to B.
4. Find the point three-quarters of the way from A to B.

1-7 Length of a segment p. 52
Classwork problems 22-44 odds p. 54

Homework: Distance formula practice

GQ: How do we calculate perimeters and areas?
CCSS: HSG.GPE.B.7 Compute areas and perimeters using the distance formula   1c.3

Do Now: Distance practice. Given
$D(3, 0), E(15, 0), F(15, 5), G(3, 5)$

1. Sketch *DEFG*

2. Find *DE*, *EF*, and *DF*

3. Spicy: Find the area and perimeter of *DEFG*

1-8 Perimeter, area, circumference pp. 59-63; Polygons
Classwork problems 7-26 odds p. 64

Homework: Perimeter & area practice

GQ: How do we calculate perimeters and areas?

CCSS: HSG.GPE.B.7 Compute areas and perimeters using the distance formula   1c.4

Do Now: Angle review

1. Exercises #20-25 p. 73. (on loose leaf paper)

Partitioning a line segment p. 57
Perimeter, area, circumference, exercises 7-26 odds p. 64

Homework: Perimeter & area practice