

10th Grade Geometry - Unit 6: Similarity

Bronx Early College Academy

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29 January 2019

Seating Chart 10.1

Seating Chart 10.2

7.1 Laptops - Geogebra. Tuesday 28 January

7.2 Linear equations. Wednesday 30 January

7.3 Linear equations. Thursday 31 January (cold day)

7.4 Slope applications in proof. Friday 1 February

7.5 Function translation. Monday 4 February

7.6 Function translation. Wednesday 6 February

7.7 Test. Thursday 7 February

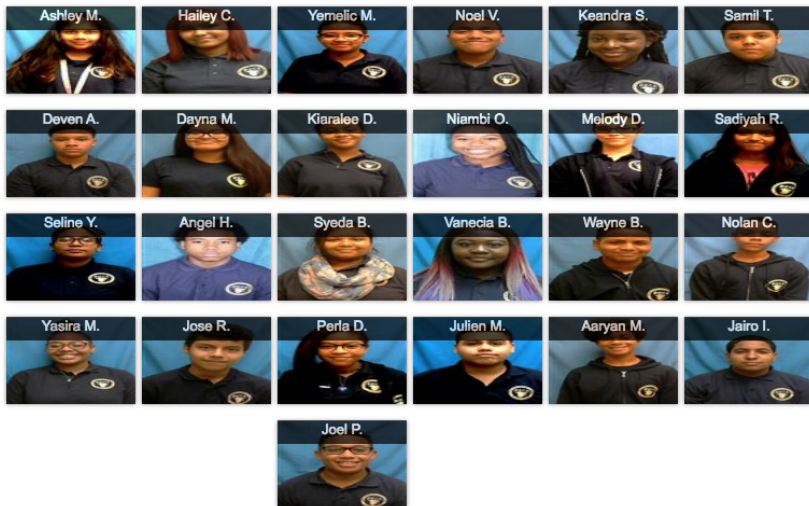
7.8 Financial math, Benjamin Segal. Friday 8 February

7.9 Function translation. Monday 11 February

7.10 Function translation. Tuesday 12 February

Seating Chart 10.1

How do we work as a team?



Seating Chart 10.2

How do we work as a team?



GQ: How do we model with digital tools?

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

7.1 Tuesday 18 January

Do Now: Regents review and reflection

- ▶ Results: 10 passing scores, 4 college ready
- ▶ Top score 75; average 53
- ▶ 70% earned free response points

GeoGebra Geometry App

Enter **N7BHK** for 10.1 or **P9PNZ** for 10.2

Set up account using your real name.

Beginner Tutorials with Lesson Ideas

Author: Tim Brzezinski

Homework: Complete Geogebra

GQ: How do we use functions and equations to represent objects on the coordinate plane?

CCSS: HSG.CO.D.12 Congruence, geometric constructions 7.2 Wednesday 30 January

Do Now: Handout

1. Dilation, plotting equations

Function notation, slope-intercept, standard, & point slope forms of linear equations

Homework: Handout review of linear equations and functions

GQ: How do we use functions and equations to represent objects on the coordinate plane?

CCSS: HSG.CO.D.12 Congruence, geometric constructions 7.3 Thursday 31 January

Do Now: Handout

1. Translation, plotting equations

Function notation, slope-intercept, standard, & point slope forms of linear equations

Homework: Handout review of linear equations and functions

GQ: How do we use slope in geometric proof?

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

7.4 Friday 1 February

Do Now: Handout

1. Translating segments, plotting equations, perpendicular proof

Applying slope to prove parallel or perpendicular relationships

Homework: Handout review of linear & quadratic equations and functions

GQ: How do we apply translations to functions?

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

7.5 Monday 4 February

Do Now: Handout

1. Translating segments, plotting equations, perpendicular proof

Translating parabolas, vertex form

Homework: Pretest for review Wednesday. Test Thursday

GQ: How do we apply translations to functions?

CCSS: HSG.CO.D.12 Congruence, geometric constructions 7.6 Wednesday 6 February

Do Now: Handout

1. Translating segments, plotting quadratics

Translating parabolas, vertex form

Homework: Study for test tomorrow

GQ: How do we apply translations to functions?

CCSS: HSG.CO.D.12 Congruence, geometric constructions 7.7 Thursday 7 6 February

Assessment: Unit Test

Homework: Financial Mathematics handout

GQ: How do we use mathematics in business?

CCSS: MP. 4 Modeling with mathematics

7.8 Friday 8 February

Welcome guest instructor Mr. Segal, Neuberger Berman

Do Now: Answer these questions in your notebook

1. How much profit does Apple make on each i-phone it sells? (approximately)
2. Do they make more on an i-phone, i-pad, or Mac computer?
3. Is Apple stock a good investment? Justify your answer.

Lesson: Modeling the financial results of Apple Inc.

Homework: Practice problems

GQ: How do we apply translations to functions?

CCSS: HSG.CO.D.12 Congruence, geometric constructions 7.9 Monday 11 February

Geogebra project: Handout

1. Right triangles' side lengths satisfy $a^2 + b^2 = c^2$
2. Pythagorean triples are integers that satisfy $a^2 + b^2 = c^2$
3, 4, 5 5, 12, 13
6, 8, 10 8, 15, 17 7, 24, 25

Homework review, the equation of a circle

Lesson: Completing the square, efficient algebra techniques

Homework: Practice problems handout

GQ: How do we apply translations to functions?

CCSS: HSG.CO.D.12 Congruence, geometric constructions 7.10 Tuesday 12 February

Geogebra project: Create a transformations puzzle problem

1. Start with a polygon
2. Use Geogebra's transformations tools
3. List the transformation steps you used
4. Rubric: correct, aesthetics, MLA
5. Print out a color pdf to email me. (husonbeca@gmail.com)

Lesson: Geogebra tool palette

Homework: Practice problems