10th Grade Geometry - Unit 6: Similarity
Bronx Early College Academy

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29 January 2019

BECA / Dr. Huson / Geometry - Unit 7 Analytic Geometry

Seating Chart 10.1

How do we work as a team?

Ashley M.	Hailey C.	Yemelic M.	Noel V.	Keandra S.	Samil T.
Deven A.	Dayna M.	Kiaralee D.	Niambi O.	Melody D.	Sadiyah R.
Seline Y.	Angel H.	Syeda B.	Vanecia B.	Wayne B.	Nolan C.
Yasira M.	Jose R.	Perla D.	Julien M.	Aaryan M.	Jairo I.
	Joel P.				
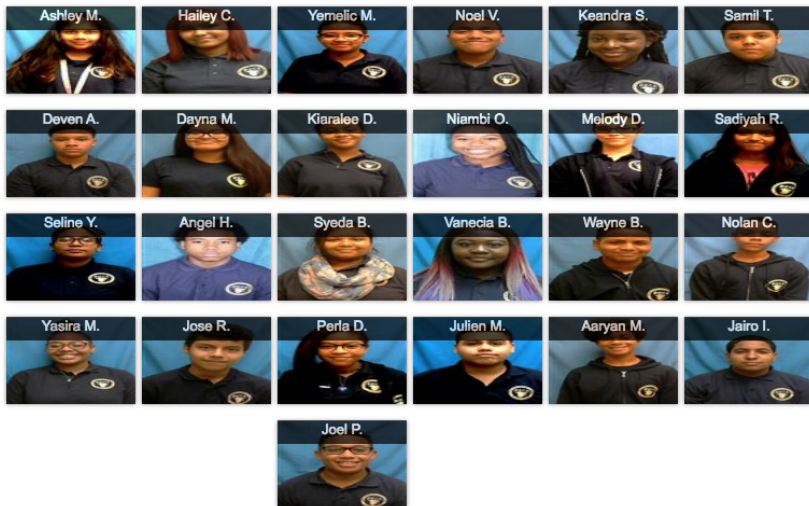
Seating Chart 10.2

How do we work as a team?

Jose G.	Ivan C.	Angel A.	Freilin R.	Janessa B.	Mattison A.
Crismeiris R.	Jenny V.	Monica P.	Oscar P.	Janicksa R.	Luisanna H.
Adrian S.	Aleksander Y.	Manuel P.	Alex S.	Jesus V.	Ashely B.
Guadalupe A.	Isiah J.	Jeremiah C.	Jaydan F.	Sulaiman T.	

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?

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 tranformations 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 pallette

Homework: Practice problems

GQ: How do we work with radicals?
CCSS: HSG.CO.D.12 Congruence, geometric constructions 7.11 Wednesday 13 February

Do Now: Complete the square by adding a constant, then factor as a binomial squared

1. Example: $x^2 + 6x \rightarrow$ $\qquad$ $x^2 + 6x + 9 = (x + 3)^2$
2. $x^2 + 10x \rightarrow$
3. $x^2 + 12x \rightarrow$
4. $x^2 - 8x \rightarrow$

Simplify radicals: $\sqrt{12}$
Lesson: Completing the square, circles p. 798, simplifying radicals
Classwork: Textbook problems 9-35 odds p. 801

Homework: Practice problems handout

GQ: How do we use distance in proofs?

Geogebra project: Handout

1. Right triangles' side lengths satisfy $a^2 + b^2 = c^2$
2. Pythagorean triples are integers that satisfy $a^2 + b^2 = c^2$

Homework review, the equation of a circle
Lesson: Completing the square, efficient algebra techniques

Homework: Practice problems handout

GQ: How do we define an ellipse and a parabola?

CCSS: HSG.CO.D.12 Congruence, geometric constructions   7.13 Friday 15 February

Geogebra project: Handout

1. Right triangles' side lengths satisfy $a^2 + b^2 = c^2$
2. Pythagorean triples are integers that satisfy $a^2 + b^2 = c^2$

Homework review, the equation of a circle
Lesson: equations defining other conics

Homework: Practice problems handout