

Accelerated A2H Summer Assignment - Khan Academy

Join our Class! <https://www.khanacademy.org/join/BXQSU494>

class code BXQSU494

Description: The following assignments on Khan Academy are meant for you and me to evaluate your mathematical knowledge and ability. Furthermore, for you to reflect on your knowledge and ability, as well as fill in any gaps in your understanding. These assignments are generally “assessments” for you to complete. There are very few videos and articles for you to watch and read. Below are the expectations. **They are due by September 9th, 2020.**

Part 1: Create a Google Doc and title it “AA2H Summer - YOURLASTNAME”, copy and paste the assignment list below, and share it with me at

KSchoeller@nyackschools.org

Part 2: Complete the assignments (1) - (5) in the order below. It is expected that you go back to “re-learn” concepts that weren’t clear. This assignment is not just “completion.” You are expected to go back to watch videos and read articles within Khan Academy, or complete your own research online. I will add resources for you to consider over the next couple of weeks.

Part 3: Reflection of assignments - After completing each task (1) - (5) in the list below, write a brief reflection (5-7 sentences). Write this reflection within the GoogleDoc you shared with me. Consider the following questions for your reflection. You may write about more than these.

- Did you feel confident completing the task?
- Did you answer the questions mathematically or did you use test-taking skills (plug in answers, etc)?
- What concept/skill did you have to “re-learn” and how did you do it?
- Which question was most difficult?
- How did you “grow” as a result of this question?

ASSIGNMENT LIST

- 1) Growth Mindset
- 2) Algebra 1
 - a) Division by Zero
 - b) Forms of Linear Equations Unit Test
 - c) System of Equations Unit Test
 - d) Inequalities (systems and graphs) Unit Test
 - e) Functions
 - i) Quiz 1
 - ii) Quiz 2
 - iii) Quiz 3
 - iv) Quiz 4
 - v) Quiz 5
 - vi) Test
 - f) Absolute Value and Piecewise Functions Unit Test
 - g) Exponential Growth and Decay Unit Test
 - h) Quadratics: Multiplying and Factoring Unit Test
 - i) Quadratic Functions and Equations Unit Test
- 3) Algebra 2
 - a) Polynomial Factorization: Quiz 1
 - b) Polynomial Factorization: Quiz 2
- 4) Precalculus
 - a) Introduction to Conic Sections
 - b) The features of a circle
 - c) Standard equation of a circle
 - d) Expanded equation of a circle
 - e) Conic Sections: Quiz 1
 - f) Center and radii of an ellipse
 - g) Foci of an ellipse
 - h) Focus and Directrix of a parabola
- 5) Statistics
 - a) Analyzing categorical data: Unit Test
 - b) Displaying and comparing quantitative data: Unit Test
 - c) Summarizing quantitative data: Unit test
 - d) Exploring bivariate numerical data: Unit test