**Algebra Cambridge Summer Math – Due August 21, 2020**

Choose any combination of assignments below to earn the grade you wish.

**Your work must be quality work to earn the full points!**

A: 100 pts.; B: 80 pts.; C: 60 pts.; D: 40 pts.

|  |  |  |
| --- | --- | --- |
| **Assignment** | **Points** | **Points Earned** |
| Go to: <https://www.khanacademy.org/join/T8EDY2KY>. **Use your first initial or name and last name to join so I can track your progress.** Nicknames or screen names can’t be used unless it contains either your first or last name – for example, I could use LisaC58. Use the password: Cambridge. For 100 points, complete the entire unit on Exponents, Radicals, and Scientific Notation, including the Unit Test. Each individual section, including the Quiz, is worth 20 points. For example, complete all of the lessons after Quiz 1, including Quiz 2, for 20 points. | 20 to 100 |  |
| Research a famous mathematician. Write a paper (2-3 pages) about their life, and how they contributed to mathematics. | 50 |  |
| Read the site on Pixel art: <https://design.tutsplus.com/articles/what-is-pixel-art--cms-21759>. This link also has various tutorials available at the bottom for Adobe Photoshop. Create a poster or PowerPoint about the history of Pixel art, the different techniques used, and how this art form uses mathematics. | 50 |  |
| On grid paper or using a pixel art program like Photoshop, create a Pixel art with an area of at least 150 units2 Ex: 10x15 or 15x15 (20 points), an area of at least 600 units2 (30 points), an area of at least 1200 units2 (40 points), or an area of at least 2500 units2 (50 points). You can complete up to 3 works of Pixel art. Here is a site you might want to use: <https://www.pixilart.com/draw>. | 20 to 50 |  |
| Make an origami creation from this site: <https://www.makeandtakes.com/origami-paper-crafts-for-kids>, or any other site you choose. Each origami figure is worth 10 points, and up to 5 origami projects can be completed for 50 points. | 10 to 50 |  |
| Read the book, “Math Curse”, by Jon Scieszka + Lane Smith. Create and illustrate a page about your own “Math Curse”, or an additional curse the book’s character might face. | 30 |  |
| Go outside and find examples of geometric shapes all around you. Make a list of at least 10. Include the shape and name (or sketch) of each item on your list. | 10 |  |
| Mathematical ABCs. Write down every letter of the alphabet. For each letter, list a mathematical word that starts with that letter. For example: A – Algebra. | 10 |  |