

Algebra I 2020 - 2021

Spring 2020 - Session 3 - Syllabus (v2020.12.14)

Instructor: Tim Handley

tim@onesparkacademy.com

Objective:

A high-school level class in the language and practice of math, aligned with the Common Core Standards for 9th grade. This class will prepare students to successfully demonstrate their mastery of elementary algebra skills on high school placement tests. Equally important, this class will prepare students to use algebra to understand and solve real-world problems in math, science, and life.

Topics Covered:

- Exponents and Exponential functions
 - Properties of Exponents
 - Growth and Decay
 - Geometric Sequences
 - Recursive Formulas
- Quadratic Expressions and Equations
 - Polynomial Arithmetic
 - Simple Quadratic Equations
 - Patterns in Polynomial Squares

Materials:

- **Reliable Wi-Fi connection**
- **Zoom-capable device**
- **EFFECTIVE writing tablet and stylus**
 - Wacom Intuos highly recommended (as on Amazon [here](#)). For context, I have a 2-in-1 laptop with a touch sensitive screen. My attempts at using the screen for handwriting have been quite frustrating. It just isn't built for that level of precision.
- **CamScanner**
 - Free phone app for turning documents into pdfs. Will be used for homework submission.
- **Textbook**
 - 2012 edition of Glencoe Algebra 1, ISBN: 9780076639236
- **Graphing Calculator**
 - Desmos web calculator
- **Physical learning materials**
 - Pencil, eraser, ruler

Resources:

We will use Edmodo as a hub for class information, and will keep the class page up-to-date with assignments, schedules, feedback.

Schedule

(subject to change as events require)

Day	Goings on		
M	1/11	Review Ch 5 / Ch 6	
W	1/13	Test Ch 5/6	
M	1/18	MLK Day	
W	1/20	7-1 thru 7-4	Properties of Exponents
M	1/25	7-5	Exponential Functions
W	1/27	7-5 & 7-6	Exp. Functions, Growth and Decay
M	2/1	7-7 & 7-8	Geometric sequences, Recursive Formulas
W	2/3	Ch 7	Review
M	2/8	Test Ch 7	
W	2/10	8-1 & 8-2	Polynomial arithmetic
M	2/15	President's Day	
W	2/17	8-3 & 8-4	Complicated poly arithmetic
M	2/22	8-5	Factoring polynomials.
W	2/24	8-6	Quadratics
M	3/1	8-7	More quadratics
W	3/3	8-8	Quadratics & Squares
M	3/8	8-9	Quadratics & Squares
W	3/10	Review	