

Algebra I Spring 2022 – Weeks: 4/19/22 – 5/13/22 (end of 6th , 6 weeks)

How are you graded? Based on the syllabus, here is how you are graded:

- 1) Known and Pop Quizzes, 2) In-Class Work, 3) follow the 4Ps (Participate, be Prepared, be Punctual, and Personally contribute), complete 4) Course-Related Academic and Professional Development tasks related to: **Note-taking, writing responses (i.e. in the surveys, in the class), complete in-class practicals /tasks, and participate in presentations.**
- 2) Emphasis: there is a direct relationship between doing the work, participating, practicing, and your understanding of the material. I go through your notebooks to review your notes. If you do not take in-class and video notes, you will receive low marks in relationship to **Participation, Preparedness, Note-taking, Writing, Professionalism, and tasks - see your syllabus labelled “4Ps” and “Course-Related”**. If you put in 100% of the effort, participate, and are prepared and you are still not able to understand, please be sure to reach out to me. I am available during most lunch periods, during class, and after class. If you are doing most of the work and reviewing the videos even after I’ve lectured on them, be sure to ask for help if you are not understanding.
- 3) There are exams and knowledge checks. These are done in-class when I call on you, during one-on-one Q&As, when I sit at the front of the class and watch you (I’m watching how you interact, how you participate, and if you are demonstrating what you know).

>>>If you are struggling with the following, please review the following. I am basing work on this and assume you know this<<<

- i. Ratios, rates, and percentages: <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-ratios-prop-topic>
- ii. Linear functions: https://www.youtube.com/watch?v=Ft2_QtXAnh8
- iii. Solving for x: <https://www.youtube.com/watch?v=xjLcqfz5aOo>

Expectations – What you should know:	Videos to Help Guide you. These should be watched <i>before</i> the lecture <i>and as a review for after</i> the lecture. It is assumed that you have watched these before the class lecture, as class time and advance notice is given to you to watch them.	Required Work - All work should be completed by Videos must be done by 5/1/22 for credit.
<ol style="list-style-type: none"> 1. Binomial multiplication 2. Linear functions and behavior 3. Quadratic formulas and behaviors of graphs 4. Graphing quadratic equations 5. Deriving equations 	<p>Video 1: exponents: https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-exponents/v/introduction-to-exponents</p> <p>>>>Need practice? Use these:</p> <p>https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-exponents/a/squaring-numbers</p> <p>https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-exponents/a/introduction-to-</p>	<ol style="list-style-type: none"> 1. Videos must be done by 5/1/22 for credit 2. In-class notes during lectures and video notes: <ol style="list-style-type: none"> a. Written notes of each video labeled “Video # – Video #” b. I go through your notebooks to review your notes. If you do not take in-class and video notes, you will receive low marks in relationship to Participation,

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<p>6. Rewriting equations (variable manipulation) – solving for x as an example</p> <p>7. Solving 2 equations (systems of equations)</p> <p>8. TBD</p> <p>Other:</p> <p>1. Review Syllabus: In-class work, 4Ps, Course-Related Development</p> <p>2. Track your work and complete the SURVEYS assigned</p>	<p>exponents</p> <p>Video 2: Quadratic functions – Explained, Simplified, and Made easy: https://www.youtube.com/watch?v=KRwb4YhQPwA</p> <p>Video 3: Parabolas: https://youtu.be/BGz3pkoGPag</p> <p>Video 4: Parabolas in context: https://youtu.be/Bk6Xkv9O_0</p> <p>Video 5: Interpret Quadratic Graph https://youtu.be/TqXu53deWCo</p> <p>Algebra I:</p> <p>Video 6: Parabolas and creating equations https://youtu.be/5yecNfFyvF8</p> <p>Video 7: Binomial Multiplication FOIL and Distributive Methods https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratics-multiplying-factoring/x2f8bb11595b61c86:multiplying-binomial/v/multiplying-binomials</p> <p>Video 8: Binomial Multiplication</p>	<p><i>Preparedness, Note-taking, Writing, Professionalism, and tasks - see your syllabus labelled “4Ps” and “Course-Related”.</i></p> <p>There is a direct correlation between these and your understanding of the material.</p> <p>3. Quizzes: 4</p> <ul style="list-style-type: none"> a. 4/20/22 b. 4/27/22 c. 5/4/22 d. 5/11/22 <p>4. Tests: 2</p> <ul style="list-style-type: none"> a. 4/29/22 b. 5/5/22 <p>5. Surveys: 2</p> <ul style="list-style-type: none"> a. 4/22/22 b. 5/13/22 <p>6. In-class guided notes</p> <ul style="list-style-type: none"> a. 4/19/22 b. 4/26/22 c. 5/3/22 <p>7. Class project</p> <ul style="list-style-type: none"> a. Algebra I Skills Analysis – 5/5/22

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	<p>Area Method</p> <p>https://www.khanacademy.org/math/algebra2/x2ec2f6f830c9fb89:poly-arithmic/x2ec2f6f830c9fb89:bi-by-poly/e/bi-by-poly-area</p> <p>Video 9: Perfect Squares</p> <p>https://www.khanacademy.org/math/algebra2/x2ec2f6f830c9fb89:poly-arithmic/x2ec2f6f830c9fb89:special-products/e/finding-special-products</p> <p>Video 10: Factoring</p> <p>https://www.khanacademy.org/commoncore/grade-HSA-A-SSE#HSA-SSE.A.2</p> <p>Video 11: Linear Revisited</p> <p>https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-7th-interpreting-lin-exp/v/interpreting-linear-expressions-example</p> <p>Videos 12 onward: All of the following:</p> <p>https://www.khanacademy.org/math/algebra-home/alg-basic-eq-ineq/alg-old-school-equations/v/algebra-linear-equations-1</p> <p>https://www.khanacademy.org/math/algebra-home/alg-basic-eq-ineq/alg-old-school-equations/v/algebra-linear-equations-2</p> <p>Linear equations 3 (video) Khan Academy</p>	<p>8. Final exam: 5/16/22</p>

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	<p>Linear equations 4 (video) Khan Academy</p> <p>Averages (video) Khan Academy</p> <p>Averages (video) Khan Academy</p> <p>Growing by a percentage (video) Khan Academy</p> <p>More percent problems (video) Khan Academy</p> <p>Solving an equation for a variable (video) Khan Academy</p>	