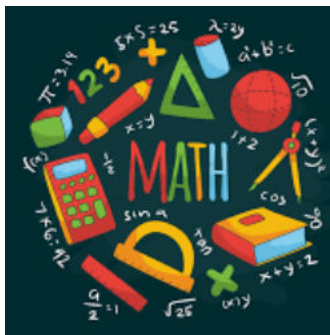


Summer Work for Rising 8th Graders into the Algebra I/II class 2025-2026

PLEASE READ THROUGH THIS ENTIRE DOCUMENT!



Welcome to AlgI/II – I’m excited to learn with you next school year! We will be using 2 different textbooks to study both the Algebra 1 and Algebra 2 curricula, so we have a lot to cover in our time together. Consequently, it will be important for you to complete this summer work so we can ‘hit the ground running’ in the Fall. Much of this summer work should look like review, and some will not - but hopefully it will be manageable to learn independently.

In order to support your learning of the material on your own, I’ve included a link to an Edpuzzle Class that you should join. It has videos that match with each section of the Algebra 1 textbook we will be using. The assigned work will come from the Algebra 1 textbook. You can borrow a copy of that from the Middle School, and you can also have access to an electronic copy of the textbook through this link:

<https://drive.google.com/file/d/1AvrT2zg3jNdiNMHDcWxlUoe2RJ5xFEtp/view?usp=sharing>

Here’s how you should go about doing your summer work:

- You’ll be learning/reviewing the concepts from 5 different chapters of the Algebra 1 textbook: **Ch. 1, 2, 3, 4 and a few concepts from Ch.7. Yes - I said Ch. 7 there at the end!** I picked those 5 chapters because I felt they were the most straightforward to learn independently (and Ch. 7 doesn’t specifically rely on concepts from Ch. 5 & 6 - so it’s ok that you are skipping those **for now**). Note – Ch. 1 & 2 should be review and it shouldn’t take long to complete those problems. If it’s taking a long time, please email me so we can talk it through!
- The problems in each section of each chapter are grouped into 3 categories: A (easiest), B (middle-level), and C (most difficult). You should try problems from each grouping.
- I will give you both
 - **(1) required work** to complete, and
 - **(2) optional supplemental work** suggestions to do for extra practice.

If you don’t know how to do something in the Required Work, then read the textbook section and/or watch a learning video. The amount of supplemental work you do will be up to you - it depends on whether you feel you need more

practice to really understand a topic. Please keep in mind that **you will be taking a test on the summer work during the first week of school**. The test will show whether you've mastered the material. Because this material includes prerequisite skills for what comes next and because we will NOT be re-learning this material in the Fall, it will be important for you to demonstrate mastery in order to continue in this class.

- My suggestion is to spread the work out over the summer, if possible. Please don't leave it all for the end of the summer - it will be too much! However, you should make sure to review the concepts before you return to school so you'll be ready for the Summer Work Test.
- Please join our Edpuzzle Class for access to the videos for each section in this Summer Work. Here is the link:
 - <https://edpuzzle.com/join/tirtubc>

- **FRIENDLY REMINDER: NO CALCULATORS FOR ANY OF THIS WORK!!**

The following are the assignments for each chapter (from the textbook). All problems refer to **Written Exercises (W.E.)** - NOT Oral Exercises. **Please check odd-numbered answers in the back of the textbook so you know you are doing the problems correctly!** Note, the 'Extra Practice' problems at the end of the book are ordered by chapter and section number. So, for instance, if you look at the Extra Practice problems for Ch.1 on p.639-640, you'll see **red** Section Numbers to the right of each grouping of problems. **(1-4)** means 'Ch. 1 Section 4'. This identifies where this concept is taught in the textbook.

Chapter 1: Introduction to Algebra: REQUIRED WORK:

This chapter should be *mostly* review.

1. Read p.10-11, do p.11-12 Written Exercises (W.E.) #1, 19, 35, 37, 39 a, b, c
2. p.38-39 W.E. #31, 33, 35, 37, 41 (if you need explanation, it's on p.36-37)
3. p.639-640 #9, 21, 25, 31, 34, 39-73 odd

Chapter 1 SUPPLEMENTAL WORK (optional - if you feel you need extra practice):

If after checking your answers, you realize you might need more review on a particular topic, please read through the appropriate section in the chapter and/or watch the short video for that section (from Edpuzzle Link). Then practice more problems from that section (choose odd numbered problems so you can check them). For instance, if you had trouble with the word problem concepts (including translating phrases and sentences into expressions and equations), practice the concepts from Sections 1-5, 1-6 & 1-7.

Chapter 2: Working with Real Numbers (real number operations): REQUIRED WORK:

This chapter should be *mostly* review.

1. Read p.45-46, do p.47 W.E. #29, 31, 33

2. p.53 W.E. #31, 37
3. p.61 W.E. #27, 49, 57
4. p.63 Word prob #9
5. p.69 W.E. #73, 77
6. p.73 W.E. #53
7. Read p.75-76, do p.77 W.E. #1, 5, 9, 13 (this is likely a new concept - please read textbook section and watch video if needed)
8. p.85 W.E. #5, 21
9. p.641-643 #15, 25, 31, 37, 47, 51, 67, 75, 85, 91, 101, 105, 117, 119, 123, 129

Chapter 2 SUPPLEMENTAL WORK (optional - if you feel you need extra practice):

If after checking your answers, you realize you might need more review on a particular topic, please read through the appropriate section in the chapter and/or watch the short video for that section (from Edpuzzle Link). Then practice more problems from that section (choose odd numbered problems so you can check them).

Chapter 3: Solving Equations and Problems: REQUIRED WORK:

This chapter should include *mostly* review, but there may be some new concepts. **NOTE: You can SKIP Section 3-8.**

1. 3-1 p.98 W.E. #41, 43, 45, 47, 53
2. 3-2 p.104 W.E. #5, 25, 35, 39, 41, 43, 45 AND p.105 Word Problem #9
3. 3-3 p.109-110 W.E. #5, 13, 31, 47, 55
4. 3-4 p.113-114 Problems #11, 19, 23
5. 3-5 p.118 W.E. #13, 29, 31, 32, 45 (see p.117 for explanation of 'identity') AND p.119 Problem #15
6. 3-6 Read p.121-122, do p.123-124 Problems #3, 9, 11
7. 3-7 Read p.126, do p.127-128 Problems #1, 3, 11

Chapter 3 SUPPLEMENTAL WORK (optional - if you feel you need extra practice):

If after checking your answers, you realize you might need more review on a particular topic, please read through the appropriate section in the chapter and/or watch the short video for that section (from Edpuzzle Class Link). Then practice more problems from that section (choose odd numbered problems so you can check them) from the following pages: **p.643-644.**

Chapter 4: Polynomials: REQUIRED WORK:

This chapter will likely include *some review* and *some new* concepts. I've included the reading of the textbook and watching of videos for some of these sections to make sure you understand what to do. **You can SKIP Section 4-10.**

1. 4-1 Read p.141-142, do p. 144 W.E. #17, 25 a,b; 29 a,b; 39, 41

2. 4-2 Read p.146-147 (**important to know this vocabulary**), do p.148-149 W.E. #1, 5, 31, 35, 43, 45, 51, 53
3. 4-3 Read p.152-153, do p.153-154 W.E. #5, 13, 21, 25, 33, 41
4. 4-4 Read p.155-156, do p.156-157 W.E. #3 a,b,c; 7 a,b,c; 15, 21, 27, 29, 39
5. 4-5 Read p.158-159, do p.159-160 W.E. #5, 7, 13, 17, 21, 25, 27, 37
6. 4-6 Watch the video at this link (different from Edpuzzle Video):
<https://www.youtube.com/watch?v=cEI8DFTe1zc>, then do p.162-163 W.E. #9, 11, 15, 21, 29, 37, 41
7. 4-7 Read p.165, do p.166 W.E. #1, 7, 9, 13, 15
8. 4-8 Read p.167-169 AND Watch Edpuzzle Video for Section 4-8, then do p.170 Problems #1, 3, 5, 6 (**This is one of the more challenging units which is why I'm asking you to read the textbook and watch the video**)
9. 4-9 Read p.172, do p.173 Problems #1, 3, 7

Chapter 4 SUPPLEMENTAL WORK (optional - if you feel you need extra practice):

If after checking your answers, you realize you might need more review on a particular topic, please watch the short video for that section (from Edpuzzle Link). Then do practice problems from that section (choose odd numbered problems so you can check them) from the following pages: **p.645-646 and p.668-669**

Chapter 7: Applying Fractions (to Algebra): REQUIRED WORK:

Your summer work includes concepts only from Sections 7-1, 7-2, and 7-9, as those should be review chapters. We will learn the rest together during the year.

1. 7-1 p.289-290 W.E. #1, 7, 9, 21, 31 & p.291 Problem #9
2. 7-2 p.295 W.E. #1, 13, 19, 27, 33 AND p.296 Problems #1, 9

Chapter 7 SUPPLEMENTAL WORK (optional - if you feel you need extra practice):

If after checking your answers, you realize you might need more review on a particular topic, please watch the short video for that section (from Edpuzzle Link). Then do practice problems from that section (choose odd numbered problems so you can check them) from the following pages: **p.651 and p.670**

If you are having trouble with any of this work, please email me at goldbloom-helzner@mjbha.org so we can talk it through!

Happy Math!!

Ms. Goldbloom-Helzner (Ms. G-H)

