

Class of 2024 & 2025 Math Skills Enhancement Page

The following websites provide great videos and practice on topics that will be beneficial to you as you enter the high school. In the left hand column, you will see the topic. The middle column contains not only the website, but also a URL and the title of the video for ease of access. Lastly, the final column provides websites to practice the skills. While practice is not mandatory, it is important that you are prepared for high school content as you begin your transition next year. The following math skill websites will prepare you to be successful at the high school level.

Topic	Websites with Helpful Videos	Practice Websites
<p>Scientific Notation</p>	<ul style="list-style-type: none"> ● Khanacademy.org <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals#pre-algebra-scientific-notation <ul style="list-style-type: none"> ■ 4 relevant videos in section entitled, "Scientific Notation" ● Mathantics.com <ul style="list-style-type: none"> ○ https://mathantics.com/lesson/scientific-notation <ul style="list-style-type: none"> ■ Scientific Notation 	<ul style="list-style-type: none"> ● IXL.COM <ul style="list-style-type: none"> ○ https://www.ixl.com/math/grade-8 <ul style="list-style-type: none"> ■ Grade 8 Skills listed under G. Scientific Notation ■ Please note there is a 10 question daily limit for non registered users. ● Khanacademy.org <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/pre-algebra-exponents-radicals#pre-algebra-scientific-notation <ul style="list-style-type: none"> ■ Practice Examples and Challenge Examples ● Mathgames.com <ul style="list-style-type: none"> ○ https://www.mathgames.com/skill/8.22-convert-between-standard-and-scientific-notation <ul style="list-style-type: none"> ■ Convert Between Standard and Scientific Notation ● https://janus.astro.umd.edu/cgi-bin/astro/scinote.pl <ul style="list-style-type: none"> ■ Scientific Notation

<p>Multiplying and Dividing with Scientific Notation</p>	<ul style="list-style-type: none"> ● Embarc.online <ul style="list-style-type: none"> ○ https://embarc.online/mod/page/view.php?id=3925 <ul style="list-style-type: none"> ■ Grade 8 Module 1 Lesson 1 ● Khanacademy.org <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals/pre-algebra-computing-scientific-notation/v/scientific-notation-example-2 <ul style="list-style-type: none"> ■ Computing with Scientific Notation ● Youtube.com - Math Meeting <ul style="list-style-type: none"> ○ https://www.youtube.com/watch?v=UADVIDjdaVg <ul style="list-style-type: none"> ■ Scientific Notation - Multiplying and Dividing 	<ul style="list-style-type: none"> ● IXL.COM <ul style="list-style-type: none"> ○ https://www.ixl.com/math/grade-8 <ul style="list-style-type: none"> ■ Grade 8 Skills listed under G. Scientific Notation ■ Please note there is a 10 question daily limit for non registered users. ● Khanacademy.org <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals/pre-algebra-computing-scientific-notation/v/scientific-notation-example-2 <ul style="list-style-type: none"> ■ Computing with Scientific Notation Practice Problems ● https://janus.astro.umd.edu/cgi-bin/astro/scinote.pl <ul style="list-style-type: none"> ■ Scientific Notation ● Mathgames.com <ul style="list-style-type: none"> ○ https://www.mathgames.com/skill/8.26-multiply-numbers-written-in-scientific-notation <ul style="list-style-type: none"> ■ Multiply Numbers with Scientific Notation
<p>Equations</p>	<ul style="list-style-type: none"> ● Embarc.online <ul style="list-style-type: none"> ○ https://embarc.online/course/view.php?id=70 <ul style="list-style-type: none"> ■ Grade 8 Module 4 All Lessons ● KhanAcademy.org <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-solving-equations <ul style="list-style-type: none"> ■ 8th Grade Unit: Solving Equations with One Unknown 	<ul style="list-style-type: none"> ● IXL.COM <ul style="list-style-type: none"> ○ https://www.ixl.com/math/grade-8 <ul style="list-style-type: none"> ■ Grade 8 Skills listed under W. One Variable Equations ■ Please note there is a 10 question daily limit for non registered

	<ul style="list-style-type: none"> <ul style="list-style-type: none"> ■ Many relevant sections, practice what is needed ● Mathantics.com <ul style="list-style-type: none"> ○ https://mathantics.com/lesson/solving-basic-equations-1 <ul style="list-style-type: none"> ■ Solving Basic Equations Part 1 ○ https://mathantics.com/lesson/solving-basic-equations-2 <ul style="list-style-type: none"> ■ Solving Basic Equations Part 2 ○ https://mathantics.com/lesson/solving-2step-equations <ul style="list-style-type: none"> ■ Solving Two Step Equations ● MathMeeting.com <ul style="list-style-type: none"> ○ http://www.mathmeeting.com/algebra-videos/solving-equations/#sthash.Hz9vblkN.dpbs <ul style="list-style-type: none"> ■ Solving Equations Basics 	<ul style="list-style-type: none"> <ul style="list-style-type: none"> users. ● Khanacademy.org <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/cc-eight-grade-math/cc-8th-solving-equations <ul style="list-style-type: none"> ■ 8th Grade Unit: Solving Equations with One Unknown ■ Many relevant sections, practice what is needed ● Mathgames.com <ul style="list-style-type: none"> ○ https://www.mathgames.com/algebra <ul style="list-style-type: none"> ■ Games entitled, "Solve One Step Linear Equations," "Solve Two Step Linear Equations," "Solve Multistep Equations," "Solve Equations Involving Like Terms" ● Passy's World of Mathematics <ul style="list-style-type: none"> ○ http://passyworldofmathematics.com/equations-games/ <ul style="list-style-type: none"> ■ List of games to practice equations
<p>Ratios, Rates and Percents</p>	<ul style="list-style-type: none"> ● Khanacademy.org <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates <ul style="list-style-type: none"> ■ Pre Algebra Unit: Ratios, Rates and Proportions. Complete any section with ratios, percents and rates ● Mathantics.com <ul style="list-style-type: none"> ○ https://mathantics.com/lesson/ratios-and-rates 	<ul style="list-style-type: none"> ● IXL.COM <ul style="list-style-type: none"> ○ https://www.ixl.com/math/grade-8 <ul style="list-style-type: none"> ■ 8th grade skills listed under H. Ratios, Rates and Proportions ■ Please note there is a 10 question daily limit for non

	<ul style="list-style-type: none"> <ul style="list-style-type: none"> ■ Ratios and Rates ○ https://mathantics.com/lesson/what-are-percentages <ul style="list-style-type: none"> ■ What are Percentages? ○ https://mathantics.com/lesson/percent-and-equivalent-fractions <ul style="list-style-type: none"> ■ Percents and Equivalent Fractions ○ https://mathantics.com/lesson/finding-a-percent-of-a-number <ul style="list-style-type: none"> ■ Finding a Percent of a Number ○ https://mathantics.com/lesson/what-percent-is-it <ul style="list-style-type: none"> ■ What Percent Is It? ○ https://mathantics.com/lesson/percent-missing-total <ul style="list-style-type: none"> ■ Percents Missing Totals ● Neok12.com <ul style="list-style-type: none"> ○ https://www.neok12.com/Ratio-Rate-Percent.htm <ul style="list-style-type: none"> ■ Any topic under category ratio, rate and percent 	<p>registered users.</p> <ul style="list-style-type: none"> ● Khanacademy.org <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates <ul style="list-style-type: none"> ■ Pre Algebra Unit: Ratios, Rates and Proportions. Complete any section with ratios, percents and rates. Many relevant sections. Practice what is needed. ● Mathgames.com <ul style="list-style-type: none"> ○ https://www.mathgames.com/grade8 <ul style="list-style-type: none"> ■ Games under category, "Ratios" ● Shmoop.com <ul style="list-style-type: none"> ○ https://www.shmoop.com/math-shack/problems/ <ul style="list-style-type: none"> ■ Practice under Ratios, Percentages and Proportions
<p>Evaluating Functions</p>	<ul style="list-style-type: none"> ● Khanacademy.com <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/pre-algebra/pre-algebra-equations-expressions/pre-algebra-substitution/v/variables-and-expressions-1 <ul style="list-style-type: none"> ■ Videos under section, "Substituting and Evaluating Expressions" 	<ul style="list-style-type: none"> ● IXL.com <ul style="list-style-type: none"> ○ https://www.ixl.com/math/grade-8 <ul style="list-style-type: none"> ■ 8th grade skills listed under V. Expressions and Properties ■ Please note there is a 10 question daily limit for non registered users. ● Khanacademy.com <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/pre-alge

		<p>bra/pre-algebra-equations-expressions/pre-algebra-substitution/v/variables-and-expressions-1</p> <ul style="list-style-type: none"> ■ Practice and challenge problems under section, "Substituting and Evaluating Expressions"
<p>Rounding</p>	<ul style="list-style-type: none"> ● Khanacademy.com <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/arithmetic-home/arith-place-value#arith-rounding <ul style="list-style-type: none"> ■ Arithmetic Unit: Rounding ● Mathantics.com <ul style="list-style-type: none"> ○ https://mathantics.com/lesson/rounding <ul style="list-style-type: none"> ■ Rounding 	<ul style="list-style-type: none"> ● Abcya.com <ul style="list-style-type: none"> ○ https://www.abcya.com/games/rounding_numbers <ul style="list-style-type: none"> ■ Rounding Numbers ● IXL.com <ul style="list-style-type: none"> ○ https://www.ixl.com/math/grade-8 <ul style="list-style-type: none"> ■ 8th grade skill D3: Rounding Decimals and Mixed Numbers ■ Please note there is a 10 question daily limit for non registered users. ● https://mrnussbaum.com/half-court-rounding-online-game
<p>Mean, Median and Mode</p>	<ul style="list-style-type: none"> ● Khanacademy.org <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/mean-and-median/v/statistics-intro-mean-median-and-mode <ul style="list-style-type: none"> ■ All relevant videos on this page ● Mathantics.com <ul style="list-style-type: none"> ○ https://mathantics.com/lesson/mean-median-and-mode <ul style="list-style-type: none"> ■ Mean, Median and Mode ● Youtube.com - Math Meeting Channel <ul style="list-style-type: none"> ○ https://www.youtube.com/watch?v=IV_m_uZOUgl <ul style="list-style-type: none"> ■ Statistics: Mean, Median 	<ul style="list-style-type: none"> ● IXL.com <ul style="list-style-type: none"> ○ https://www.ixl.com/math/grade-8 <ul style="list-style-type: none"> ■ 8th grade skills listed under DD. Statistics with Mean, Median and Mode in Title ■ Please note there is a 10 question daily limit for non registered users. ● Khanacademy.org

	<p style="text-align: center;">and Mode</p>	<ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/mean-and-median/v/statistics-intro-mean-median-and-mode <ul style="list-style-type: none"> ■ All relevant practice and challenge problems on this page ● Mathgames.com <ul style="list-style-type: none"> ○ https://www.mathgames.com/skill/6.91-calculating-mean-median-mode-and-range <ul style="list-style-type: none"> ■ Calculator Mean, Median, Mode and Range
<p>Fractions</p>	<ul style="list-style-type: none"> ● Khanacademy.org <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/arithmetic/fraction-arithmetic <ul style="list-style-type: none"> ■ Arithmetic Unit: Fractions. Any video under the unit of Fractions ● Mathantics.com <ul style="list-style-type: none"> ○ Any video under the categories, "Fractions and Fraction Arithmetic" ● Neok12.com <ul style="list-style-type: none"> ○ https://www.neok12.com/Fractions-Decimals.htm <ul style="list-style-type: none"> ■ Any video under section entitled, "Fractions & Decimals" 	<ul style="list-style-type: none"> ● IXL.COM <ul style="list-style-type: none"> ○ https://www.ixl.com/math/grade-7 <ul style="list-style-type: none"> ■ 7th grade skills listed under F. Fractions and Mixed Numbers ■ Please note there is a 10 question daily limit for non registered users. ● https://www.khanacademy.org/math/arithmetic/fraction-arithmetic <ul style="list-style-type: none"> ○ Arithmetic Unit: Fractions. Any practice or challenge problems under the unit of Fractions ● Mathgames.com <ul style="list-style-type: none"> ○ https://www.mathgames.com/grade7 <ul style="list-style-type: none"> ■ Games under category, "Fractions"
<p>Graphing on the</p>	<ul style="list-style-type: none"> ● Khanacademy.org 	<ul style="list-style-type: none"> ● IXL.COM

<p>Coordinate Plane</p>	<ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/basic-geo/basic-geo-coord-plane <ul style="list-style-type: none"> ■ All videos relevant to graphing ordered pairs ● Mathantics.com <ul style="list-style-type: none"> ○ https://mathantics.com/ <ul style="list-style-type: none"> ■ All videos under category, “Algebra Basics Part 3” 	<ul style="list-style-type: none"> ○ https://www.ixl.com/math/grade-7 <ul style="list-style-type: none"> ■ 8th grade skills listed under N. Coordinate Plane ■ Please note there is a 10 question daily limit for non registered users. ● Khanacademy.org <ul style="list-style-type: none"> ○ https://www.khanacademy.org/math/basic-geo/basic-geo-coord-plane <ul style="list-style-type: none"> ■ All practice and challenge problems relevant to graphing ordered pairs ● Mathnook.com <ul style="list-style-type: none"> ○ https://www.mathnook.com/math/skill/coordinategridgames.php <ul style="list-style-type: none"> ■ Games listed on the page
--------------------------------	---	---

The following websites listed on the Ansonia Public Schools Distance Learning page are also helpful. They are copied below:

- [Khan Academy](#): Students practice at their own pace, first filling in gaps in their understanding and then accelerating their learning.
- [National Library of Virtual Manipulatives](#): A library of uniquely interactive, web-based virtual manipulatives or concept tutorials, mostly in the form of Java applets, for mathematics instruction (K-12 emphasis).
- [Math Help](#): (Alg 1 students ONLY) Site that offers the one-on-one learning experience that every student needs to conquer math.
- [CK-12 Math/Science](#): We offer free high-quality, standards-aligned, open content in the STEM subjects.
- [Flipped Math](#): Allows students to demonstrate mastery of all concepts and progress at their individual pace. Good for Algebra 1 classes.
- [NEOK12](#): A collection of educational videos, games, quizzes, diagrams, and puzzles that kids love.
- [Math Drills](#): free math worksheets including number sense, arithmetic, pre-algebra, geometry, measurement, money concepts and much more.

- Students can also visit [Greg Tang Math](#) for games and other math learning opportunities.
- [Desmos Online Calculator](#): A free on-line graphing calculator.
- [Funbrain](#): Offers hundreds of games, books, comics, and videos that develop skills in math, reading, problem-solving and literacy.
- [Engineering Activities for Kids](#): STEM activities using regularly found items in the household.