

## Optional Summer Work and Resources

Please review this chart of recommended resources for optional summer work.

	English	Math	Science	History
Students Entering Eighth Grade	<ul style="list-style-type: none"> <li>• <a href="https://chompc.homp.com/exercises.htm">https://chompc.homp.com/exercises.htm</a></li> <li>• <a href="https://www.chompchomp.com/terms.htm">https://www.chompchomp.com/terms.htm</a></li> <li>• <a href="https://chompc.homp.com/rules.htm">https://chompc.homp.com/rules.htm</a></li> </ul>	<p><b>OPTIONAL Resource for Students Entering Honors Geometry:</b></p> <p>The Honors Geometry curriculum incorporates many different Algebraic concepts and skills along with the new geometric material being learned. Using IXL (<a href="http://ixl.com">ixl.com</a>) is an excellent way to sharpen these skills and help to strengthen retention or to explore new content and skills.</p> <p><b>A few suggested skills under the <i>Algebra 1</i> Tab include (but are <i>not</i> limited to):</b></p> <ul style="list-style-type: none"> <li>• Solving proportions and scale drawings</li> <li>• Percent of change (multiple skills)</li> <li>• Midpoint Formula (finding the midpoint and endpoint)</li> <li>• Distance between two points</li> <li>• ANY skill under the following topics               <ul style="list-style-type: none"> <li>○ Solve Equations</li> <li>○ Single-Variable Inequalities</li> <li>○ Absolute Value Equations and Inequalities</li> <li>○ Number Sequences</li> <li>○ Linear Functions</li> <li>○ Systems of Linear Equations</li> <li>○ Exponents</li> <li>○ Monomials</li> <li>○ Polynomials</li> <li>○ Factoring</li> <li>○ Radical Expressions</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <a href="https://www.brainpop.com/games/game-finder/">https://www.brainpop.com/games/game-finder/</a></li> <li>• <a href="https://www.brainpop.com/">https://www.brainpop.com/</a> (sign up for free 30-day access)</li> </ul> <p>Focus on topics related to:</p> <ul style="list-style-type: none"> <li>• Forces and Motion</li> <li>• Astronomy</li> <li>• Electricity and Magnetism</li> <li>• Sound</li> <li>• Genetics</li> <li>• Natural Selection</li> </ul>	<ul style="list-style-type: none"> <li>• Practice identifying all fifty states using this online game: <a href="https://online.seterra.com/en/vgp/3003">https://online.seterra.com/en/vgp/3003</a></li> <li>• Familiarize yourself with the design, roles, and responsibilities of the United States Government: <a href="https://kids.usa.gov/three-branches-of-government/index.shtml">https://kids.usa.gov/three-branches-of-government/index.shtml</a></li> <li>• Review the first six presidents of the United States that were taught in your 7th grade curriculum. <a href="https://www.history.com/news/first-10-us-presidents">https://www.history.com/news/first-10-us-presidents</a></li> </ul>

**OPTIONAL Resource for Students Entering Algebra I:**

The Algebra I curriculum incorporates many different concepts and skills from Pre-Algebra. Using IXL ([ixl.com](http://ixl.com)) is an excellent way to sharpen these skills and help to strengthen retention.

**A few suggested skills under the 7th Grade Math Tab** include (but are *not* limited to):

- **ANY skill under the following topics**
  - Number Theory
  - Integers
  - Operations with Integers
  - Fractions and Mixed Numbers
  - Operations with Fractions
  - Exponents and Square Roots
  - Ratios, Rates, and Proportions
  - Proportional Relationships
  - Percents
  - Consumer Math
  - Problem Solving and Estimation
  - Coordinate Plane
  - Expressions and Properties
  - One-Variable Equations
  - One-Variable Inequalities
  - Two-Variable Equations

ADDITIONALLY, if you would like to try out some new topics and skills:

- **ANY skill under the following topics**
  - Transformations and Congruence
  - Pythagorean Theorem
  - Data and Graphs
  - Statistics
  - Probability