The following curriculum path is typical for most junior high students. As with the high school curriculum, changes may be made to accommodate specific student needs and abilities, particularly in the fields of math and modern language. Complete Course descriptions can be found in the Curriculum Catalog available on the Pinewood website and through links on the Veracross Student and Parent Portals.

### Seventh Grade
- Literature 7
- Writing 7
- US History 7
- Algebra 1A or Algebra 1 Accelerated (see below)
- Science 7
- French/Spanish 1A or French/Spanish 1 Accelerated
- Physical Education/Health
- Computer Science 7 (1 semester)
- Arts Curriculum (1 semester)
  - Art, Communications, and Musical Theater (six week rotations)

### Eighth Grade
- Literature 8
- Writing 8
- World History 8
- Algebra 1 or Geometry
- Science 8
- French/Spanish 1B or French/Spanish 2 Accelerated
- Physical Education/Health
- Computer Science 8 (1 semester)
- Arts Curriculum (1 semester)
  - Art, Musical Theater, or Digital Multimedia

### 2016–2017 Junior High Graduation Requirements

<table>
<thead>
<tr>
<th>Subject</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>English: Literature</td>
<td>2 years</td>
</tr>
<tr>
<td>English: Writing</td>
<td>2 years</td>
</tr>
<tr>
<td>Modern Foreign Language: French or Spanish</td>
<td>2 years</td>
</tr>
<tr>
<td>Social Studies</td>
<td>2 years</td>
</tr>
<tr>
<td>Mathematics</td>
<td>2 years</td>
</tr>
<tr>
<td>Science</td>
<td>2 years</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2 years</td>
</tr>
<tr>
<td>Arts Curriculum</td>
<td>1 year</td>
</tr>
<tr>
<td>Computer Literacy</td>
<td>1 year</td>
</tr>
<tr>
<td>Community Service</td>
<td>20 hours per school year</td>
</tr>
</tbody>
</table>

### 2016–2017 Mathematics Curriculum Changes

The 2016–17 school year will see changes in the math progression/curriculum for junior high students. Previously, 7th grade students took either Pre-Algebra or Algebra 1. Beginning in 2016, all 7th graders will be placed in either Algebra 1A or Algebra 1 Accelerated based on placement test. Algebra 1A is the first half of a two-year Algebra 1 course; Algebra 1 Accelerated is the new name for our existing 7th grade Algebra 1 class. Students who take Algebra 1A in 7th grade will take Algebra 1B in 8th grade; students who take Algebra 1 Accelerated in 7th grade will take Geometry in 8th grade. We are making this change because we believe that those students who would have taken Pre-Algebra in 7th grade followed by Algebra 1 in 8th grade, will be better served with a two-year Algebra 1 curriculum. The two-year progression will allow us to cover more information in greater detail, giving our students a broad, comprehensive Algebra 1 foundation. For 2016–17, the 8th grade math curriculum will not change—students will be taking either Algebra 1 JH8 or Geometry.
The Pinewood mathematics curriculum focuses on computational accuracy, mathematical communication, and practical applications. Using technology-based instruction, traditional lecture, cooperative learning, self-discovery, student-run presentations, and engaging real-life problem solving, students develop a deep understanding of concepts as well as critical thinking skills. At every level, the mathematics department creates an academically focused, supportive, and appropriately rigorous curriculum, enabling students to reach their fullest potential while preparing them for their future mathematics studies.

Algebra 1A—Seventh Grade
Algebra 1A is the first part of a two-year Algebra 1 course. The course begins with a review of signed integer operations and fundamental fraction, decimal, and percent skills followed by Algebra 1 curriculum interwoven with skills learned in previous mathematics courses. Topics covered will include simplifying variable expressions, solving equations, inequalities, and word problems, defining the major number sets, applying the order of operations, and employing the properties of real numbers. Graphing, three forms of a line, and linear systems will be introduced as will statistics topics such as linear regression, data set analysis, and basic probabilities. There will be extensive practice with the TI-84 Graphing Calculator to support derived results.

Algebra 1B—Eighth Grade
Algebra 1B is the second part of a two-year Algebra 1 course. Covered topics will include, properties of integer exponents, naming, simplifying and factoring polynomials, rational exponents, and the set of rational numbers and simplifying irrational expressions and complex fractions. Students are introduced to quadratics with factoring, graphing, and solving for real roots. Factoring covers the scope of greatest common factor, guess and check methods, quadratic formula, grouping, and the use of perfect square and sum and difference of square formulas. The TI-84 calculator will be used to support results and to find and check solutions.

Descriptions of the existing junior high math classes—Algebra 1 JH7, Algebra 1 JH8, and Geometry JH—are available in the 2015–16 Course Catalog posted on the Pinewood Website.