Integrated Math with an Algebra Focus

Course Overview:
Integrated Math with an Algebra Focus is an accelerated math course, which will include an in depth study of the entirety of the 7th grade Common Core State Standards (CCSS), and which will also cross over into the 8th grade CCSS. The primary focus of this course is solving real-world problems involving ratios and proportions, fluency with calculations involving negative numbers, solving for unknowns, representing real world situations through mathematical models, as well as units on geometry, probability, and statistics.

This course is the first year of a two year accelerated progression which will cover the 7th, 8th, and Algebra 1 content by the end of the 8th grade year.

Units and Activities: What will we be learning about and doing in this course?
The content which will be covered is taken from the 7th grade Content Standards of the CCSS, which are outlined below. This class will cover approximately the first two thirds of these standards.

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions.
- Use properties of operations to generate equivalent expressions.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Draw, construct, and describe geometrical figures and describe the relationships between them.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Use random sampling to draw inferences about a population.
- Draw informal comparative inferences about two populations.
- Investigate chance processes and develop, use, and evaluate probability models.

Standards: What knowledge and skills will I gain by the end of this course?

Anchor Standards:
In addition to the content outlined above, the skills gained by the end of this course are outlined by the CCSS, Math Practice Standards. Students will be assessed on these skills, which are as follows:

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.

Content Standards: This course builds student knowledge using the Math CCSS. The content standards for Integrated Math are:
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions.
- Use properties of operations to generate equivalent expressions.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Draw, construct, and describe geometrical figures and describe the relationships between them.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Use random sampling to draw inferences about a population.
- Draw informal comparative inferences about two populations.
- Investigate chance processes and develop, use, and evaluate probability models.

Assessment of Learning:
For information about assessment types, scoring, and overall grade calculation: click here.

Communication:
How Do I Access Work from Home, and What Should I Expect?

- All work will be posted in Google Classroom.
- The work will be explained during our in-person meetings and/or by video posted to Google Classroom.
- The work will also be explained in our Class Planner posted to Google Classroom.
- If you have any questions, email your teacher.

How Do I Know What My Grades Are?

- On Summative Assessments, teachers will provide both a 4-point grade and a letter grade.
- You can monitor your progress in the following ways:
  - By reading feedback and scoring returned to students on summative assessments.
  - By monitoring the scores and Overall Course Mastery Grade in the Parent/Student portal on JumpRope. Reminders to check grades will be sent from the school.
  - Communicating with your teacher if you are unclear.

Where Can I Find This Syllabus during the School Year?

- This syllabus will be available on the school website in each subject’s department tab once the school year is up and running. It will also be available in our Google Classroom.

How Do I See What’s Due?

- Assignment and summative assessment due dates with handouts are posted in Google Classroom, with connection to Google Calendar, for student access.

How Do I See What’s Past Due?

- If a student is missing a grade on an assessment, it will be listed in the red “Missing Assessment” section of the JumpRope Parent/Student Portal along with any attachments. Please contact your teacher if you have any questions.

Materials:
Math workbooks will be provided.

**Schoolwide Procedures:**
Please see the Student Handbook for Procedures and Policies related to: Due dates and deadlines, extra credit, retaking assessments, and turnaround time for grade entry.

**Personal Mobile Devices:** This class will follow the procedures outlined in the student handbook.

**Classroom Expectations:**

**Team Pathfinders** is an interdisciplinary team that includes Global Studies, English, Science, and Math. We collaborate to meet the social, emotional, intellectual, and physical needs of 7th-grade students. Part of that is a set of common expectations. These include:

1. **Hydration!** Your brain needs water to function at its highest levels. Please bring a filled water bottle to class.
2. **Communication:** There may be times when you have to miss class. Please e-mail us or see us in person before or after school to check in about what you missed.
3. **Engagement:** We care deeply about your learning. Please help us by arriving on time with the materials you need to be fully present in class.