

Syllabus 2018-2019

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Introduction

Math 5 will engage students in a rigorous investigation of mathematical principles which will set the stage for more meaningful applications of standards as they relate to the geometry, measurement and data, numbers and operations, and algebraic thinking. Students will utilize the standards for mathematical practice (SMPs) to become conceptually competent and procedurally fluent when progressing through math mastery: concrete → representational → abstract. Students will engage in modeling, hands-on, technology, math labs, foldables and a variety of other strategies to build conceptual understanding and procedural fluency.

Curriculum

- Unit 1: Orders of Operations and Whole Numbers
- Unit 2: Adding & Subtracting with Decimals
- Unit 3: Multiplying and Dividing with Decimals
- Unit 4: Adding, Subtracting, Multiplying, and Dividing with Fractions
- Unit 5: 2D Figures
- Unit 6: Volume & Measurement
- Unit 7: Geometry & the Coordinate Plane

Assessment

Students will be evaluated through competency-based grading criteria which will be communicated in the form of rubrics. Problem-based learning will engage students in a constructivist approach: 1) engage, 2) explore, 3) explain, 4) elaborate, 5) evaluate, and 6) extend. This may sometimes require students to extend their learning at home, but in authentic and intentional ways. Students will focus on creative problem solving, cooperation, communication, and critical thinking skills (the 4 C's) to enhance and engage in their mathematical learning opportunities. Students will be scored on a depth of knowledge/rigor scale of 1 → 4 under the following categories:

Competency-Based Criteria

1. Limited Progress Towards Standards
2. Progressing Towards Standards
3. Meets Standards
4. Exceeds Standards

Standards for Mathematics Practice

1. Make sense of problems and persevere in solving them
2. Reason abstractly and quantitatively
3. Construct viable arguments and critique the reasoning of others
4. Model with mathematics
5. Use appropriate tools strategically
6. Attend to precision
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning

Assessment Types

- Diagnostics
- Formative (Quizzes, Tickets out the Door)
- Summative (Tests, Projects)

Classroom Culture

There are high expectations for every student. For them to achieve academically to their fullest potential, we are confident that students will contribute constructively & positively to the learning environment. Student's behavior will be on a scale of 1 → 4, encompassing the 3 R's through the 7 habits of highly effective students.

Responsible, Respectful, and Remarkable Conduct

1. Be Proactive
2. Begin with the End in Mind
3. Put First Things First
4. Think Win-Win
5. Seek First to Understand, Then be Understood
6. Synergize
7. Sharpen the Saw

Expectations

- Respect | Fairness is not Sameness
- Quietly Collaborate
- Engage in Your Learning
- Adhere to School Rules
- Persevere & Try Your Best

Positive Reinforcement

- Improved Student Achievement
- Kudos Cards
- Bring your own Device
- Flex Day Fridays
- Escalating Incentives