



7th Grade Math Syllabus

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1. District 123 Vision:

A dynamic and supportive environment that ignites lifelong learners who embrace diversity and contribute positively to our community and global society.

2. District 123 Mission:

Preparing today's learner for tomorrow's world

3. Course Description

What is the purpose of this course?

The purpose of this course is to help students develop mathematical knowledge, understanding, and skill as well as an awareness of and appreciation for the rich connections among mathematical concepts, both within mathematics and other content areas.

How does it relate to the District's Strategic Plan?

Our purpose connects to District 123's strategic plan because Connected Mathematics Project (CMP) is a problem-centered curriculum promoting an inquiry-based teaching-learning classroom environment. Mathematical ideas are identified and embedded in a carefully sequenced set of tasks and explored in depth to allow students to develop rich mathematical understandings. The Common Core State Standards for Mathematics (CCSSM) and the Standards for Mathematical Practice emerge as students pursue solutions to problems. The curriculum helps students grow in their ability to reason effectively with information represented in graphic, numeric, symbolic, and verbal forms and to move flexibly among these representations to produce fluency in both conceptual and procedural knowledge.

4. Learning Outcomes and Big Ideas

By the end of this course, students will be able to...

- Understand and fluently apply negative number concepts to add, subtract, multiply, and divide all rational numbers (7.NS)
- Analyze proportional relationships and use them to solve real-world and mathematical problems (7.RP)
- Use random sampling to draw inferences about a population and evaluate probability models (7.SP)
- Analyze linear relationships and represent in tables, graphs and equations (7.LR)
- Solve real-world and mathematical problems using numerical and algebraic expressions and equations (7.EE)
- Describe geometrical figures and solve real-world and mathematical problems involving angle measure, area, surface area, and volume (7.G)
- Make sense of a real-world scenario by transferring and applying mathematical knowledge

5. Daily Procedures

Each day, students will follow the Connected Mathematics Project (CMP) curriculum. Each 80-minute Math block is a collaborative environment in which students solve real-world tasks by utilizing problem solving strategies. CMP lessons are designed around a Launch-Explore-Summarize pattern.

6. Expectations of Student

- Arrive on time
- Recognize that improvement comes with hard work and a growth mindset
- Come to class prepared with completed homework and all necessary materials.
- Take accurate notes during class and use these notes as a reference
- Inform the teacher if you are experiencing difficulties with any material....ask questions!
- Don't disrupt or interfere with other students' learning opportunities
- Be respectful of yourself, others, the classroom, and the school

7. Expectations of Teacher

- Come to class prepared with a lesson plan that addresses all students' needs
- Encourage students to ask questions
- Provide a safe learning environment for all students
- Be available to assist students
- Return graded student work in a timely manner

8. Assessment Criteria

Homework/Grading policy

Homework will be assigned almost every day. Students are expected to complete homework on paper or in their math notebooks. It will be checked by the teacher in class the next day. Every couple of weeks, homework completion is added as a Skyward grade. It is vital for students to complete it daily for practice. If students do not complete homework consistently, consequences may be issued. For students struggling with homework, Power Hour before or after school is highly recommended.

Formative and Summative Assessments

There is a summative assessment at the conclusion of each unit of study. Each unit is broken down into Investigations, with a quiz after each investigation. Students can expect around 3-4 quizzes and one summative assessment with each unit.

Policy on Assessment Retakes

Students are able to request a retake for any graded task in Skyward. Before the retake, students must:

- Have no missing homework
- Fill out a reassessment form and have it signed by a parent
- Prepare. Possibilities include correcting mistakes on the original assessment, redoing the study guide, studying with a partner, extra help with teacher
- Determine a date and time for the retake with the teacher

9. Materials

- Pencils and erasers
- Correcting pens
- Calculator: TI-30X IIS
- Notebook
- Folder

10. Instruction and Directions for Help?

Contact Information

Team 7A

- Ms. Mary Doran - mdoran@d123.org - Room 2006
- Mrs. Kathy Ogean - kogean@d123.org - Room 2001

Team 7B

- Mrs. Rachel Kromphardt - rkromphardt@d123.org - Room 2010
- Ms. Jennifer DiSalvo - jdisalvo@d123.org - Room 2026

Parent Resources

- Daily Doc - The day-by-day document with lesson notes and homework
- Google Classroom
- Skyward

11. Curriculum Map - Units of Study

1. **Accentuate the Negative** - Operations with positive and negative numbers
2. **Stretching and Shrinking** - Scale factor and ratios
3. **What Do You Expect?** - Probability
4. **Samples and Populations** - Statistics with random sampling
5. **Comparing and Scaling** - Proportional relationships
6. **Moving Straight Ahead** - Represent linear relationships in tables, graphs, and equations ($y=mx+b$); solving multi-step equations
7. **Shapes and Designs** - 2D Geometry: Polygons and angles
8. **Filling and Wrapping** - 3D Geometry: Surface area and volume