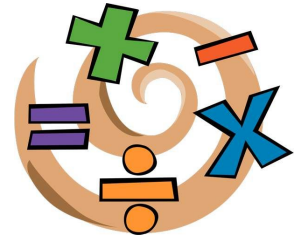


**Saint Ambrose Catholic School**  
**Middle School Math Program**  
2017 - 2018 Class Procedures and Syllabus  
Ms. Le-Marie Thompson  
[msthompsonsas@gmail.com](mailto:msthompsonsas@gmail.com)



**Course Description:** The Middle School Math Program at Saint Ambrose Catholic School is tailored to support the success of each individual student. We provided differentiated instruction for 6th, 7th and 8th grades based on academic level. The following math courses offered; Mathematics, Pre-Algebra, Algebra. Saint Ambrose School adheres to the mathematics standards set forth by the Archdiocese of Washington. We believe that every child has the ability to be successful in math with strong support at school and home!

**(Sixth Grade) Mathematics:** This class supports the development of students' higher-order thinking and provides explicit in-depth instruction in fundamental mathematical concepts.

- Math Text & Workbooks: Sadlier-Oxford Progress in Mathematics

**(Seventh Grade) Pre-Algebra:** This class will provide students with a solid fundamental foundation in mathematics with an emphasis on advanced problem-solving strategies. It also provides a strong algebraic focus beginning with variable expressions and extending through polynomial equations.

- Math Text & Workbooks: Sadlier-Oxford, Fundamentals of Algebra

**(Eighth Grade) Algebra:** This class will provide students with a strong fundamental foundation in mathematics with an emphasis on advanced problem-solving strategies. It also provides a strong algebraic focus beginning with variable expressions and extending through polynomial equations.

- Math Text & Workbooks: Sadlier-Oxford, Algebra 1

**Parents as Partners:** Family involvement is an essential element for a student's success in mathematics. Be positive and support homework. Please don't do your child's homework. Think of yourself as a guide rather than your child's teacher. You can help by asking questions and listening. You may also help by visiting the online resources and encouraging your child to take advantage of the tutorials and interactive activities provided.

**Student Expectations:**

1. Be on time, with your pencil sharpened, in your seat, and ready for class. After three tardies, parents will be billed. Consult the parent handbook.

2. Be on task and do not disrupt others in the class. Take class notes or work on an activity or assignment as directed.
3. Respect others and their property.
4. Come prepared. This means bring all necessary materials to class. Student may not go to their lockers during class.
5. Refer to any discussions/activities we may have done as a class regarding rules and expectations.
6. Refer to the student handbook. The rules in the student handbook apply in any school setting – including my classroom!

**Supplies:** It is absolutely necessary that students have a binder to keep handouts and assignments organized.

1. 3-ring binder
2. 4 dividers for homework, notes, quizzes, and miscellaneous handouts
3. Pencils. I do not accept homework written in pen!
4. Red pens for correcting homework (sometimes done in class)
5. (OPTIONAL) Calculator - a TI 30X IIS is suggested, but others are acceptable. (No graphing calculators – they're way too expensive!) I also have a set of calculators in my room that you may use when you are in class, however, they will not be allowed to leave my room – and you will have to trade me a shoe to use one!

**Books Covering:** Students must assume responsibility for their books. Textbook Inventory/Evaluation Forms must be completed and signed by every family for every book.

- Every textbook is to be covered with a paper cover.
- Consumable books must be covered with clear contact paper.
- Stretchy book covers are NOT permitted.

Students who repeatedly have their books uncovered are subject to penalties under the Code of Discipline. Paper covers are distributed to the students at the beginning of the year and are available throughout the year.

**Communication:** Saint Ambrose School uses Rediker to communicate with parents and students regarding important reminders, student progress, and grades.

Please feel free to email me if you have any questions. My response time for emails is 48 hours. Also, I will be available, by appointment, before school Monday - Friday (7:00 am - 7:30 am) and after school Monday, Tuesday and Thursday (3:00 - 3:30pm). Phone: 301-773-0223 Email: [msthompsonsas@gmail.com](mailto:msthompsonsas@gmail.com)

## Archdiocese of Washington Catholic Schools Math Standards<sup>1</sup>

The following are the Archdiocese of Washington Catholic School Math Standards for 6th, 7th and 8th grades. Each math topic area will be cover in the Saint Ambrose Middle School Math Program accordingly.

6 <sup>th</sup> Grade Math	7 <sup>th</sup> Grade Math	8 <sup>th</sup> Grade Math
Computation	Number Sense	Number Sense
Algebra & Functions	Computation	Computation
Geometry	Algebra and Functions	Algebra and Functions
Measurements	Geometry	Geometry
Data Analysis and Probability	Measurement	Measurement
Problem Solving	Data Analysis and Probability	Data Analysis and Probability
	Problem Solving	Problem Solving

### **6<sup>th</sup> Grade**

- Computation - Students solve problems involving addition, subtraction, multiplication, and division of integers. They solve problems involving fractions, decimals, ratios, proportions, and percentages.
- Algebra & Functions - Students write verbal expressions and sentences as algebraic expressions and equations. They evaluate algebraic expressions, solve simple linear equations, and graph and interpret their results. They investigate geometric relationships and describe them algebraically.
- Geometry - Students identify, describe, and classify the properties of plane and solid geometric shapes and the relationships between them.
- Measurement - Students deepen their understanding of the measurement of plane and solid shapes and use this understanding to solve problems. They calculate with temperature and money, and choose appropriate units of measure in other areas.
- Data Analysis and Probability - Data Analysis and Probability Students compute and analyze statistical measures for data sets. They determine theoretical and experimental probabilities and use them to make predictions about events.
- Problem Solving - Students make decisions about how to approach problems and communicate their ideas.

<sup>1</sup> Reference <http://adw.org/wp-content/uploads/2014/04/MathematicsGrade7StandardsJune2010.pdf>

## **7<sup>th</sup> Grade**

- Number Sense - Students understand and use scientific notation\* and square roots. They convert between fractions and decimals.
- Computation - Students solve problems involving integers\*, fractions, decimals, ratios, and percentages.
- Algebra and Functions - Students express quantitative relationships using algebraic terminology, expressions, equations, inequalities, and graphs.
- Geometry - Students deepen their understanding of plane and solid geometric shapes by constructing shapes that meet given conditions and by identifying attributes of shapes.
- Measurement - Students compare units of measure and use similarity\* to solve problems. They compute the perimeter, area, and volume of common geometric objects and use the results to find measures of less regular objects.
- Data Analysis and Probability - Students collect, organize, and represent data sets and identify relationships among variables within a data set. They determine probabilities and use them to make predictions about events.
- Problem Solving - Students make decisions about how to approach problems and communicate their ideas.

## **8<sup>th</sup> Grade Math**

- Number Sense - Students know the properties of rational\* and irrational\* numbers expressed in a variety of forms. They understand and use exponents\*, powers, and roots.
- Computation - Students compute with rational numbers\* expressed in a variety of forms. They solve problems involving ratios, proportions, and percentages.
- Algebra and Functions - Students solve simple linear equations and inequalities. They interpret and evaluate expressions involving integer\* powers. They graph and interpret functions. They understand the concepts of slope\* and rate.
- Geometry Students deepen their understanding of plane and solid geometric shapes and properties by constructing shapes that meet given conditions, by identifying attributes of shapes, and by applying geometric concepts to solve problems.
- Measurement - Students convert between units of measure and use rates and scale factors to solve problems. They compute the perimeter, area, and volume of geometric objects. They investigate how perimeter, area, and volume are affected by changes of scale.
- Data Analysis and Probability - Students collect, organize, represent, and interpret relationships in data sets that have one or more variables. They determine probabilities and use them to make predictions about events.
- Problem Solving - Students make decisions about how to approach problems and communicate their ideas.

