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7th Grade Homeroom
6th, 7th and 8th Grade Math and Science
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Math: The Archdiocese and the state of Oregon adopted new math standards for grade levels K-8 in 2007. Here is what you can expect your child to learn in middle school.

6th Grade Focal Points:

- 6.1 Number and Operations: Develop an understanding of and fluency with multiplication and division of fractions and decimals.
- 6.2 Number and Operations and Probability: Connect ratio, rate, and percent to multiplication and division.
- 6.3 Algebra: Write, interpret, and use mathematical expressions and equations.

7th Grade Focal Points:

- 7.1 Number and Operations and Algebra: Develop an understanding of operations on all rational numbers and solving linear equations.
- 7.2 Number and Operations, Algebra and Geometry: Develop an understanding of and apply proportionality, including similarity.
- 7.3 Measurement and Geometry: Develop an understanding of and use formulas to determine surface area and volume.

8th Grade Focal Points:

- 8.1 Algebra: Analyze and represent linear functions, and solve linear equations and systems of linear equations.
- 8.2 Data Analysis and Algebra: Analyze and summarize data sets.
- 8.3 Geometry and Measurement: Analyze two- and three-dimensional spaces and figures by using distance and angle.

Science: The Archdiocese and the state of Oregon adopted new science standards for grade levels K-8 in 2009. Here is what you can expect your child to learn in middle school science.

6th Grade:

- 6.1 Structure and Function: Living and non-living systems are organized groups of related parts that function together and have characteristics and properties.
- 6.2 Interaction and Change: The related parts within a system interact and change.
- 6.3 Scientific Inquiry: Scientific inquiry is the investigation of the natural world based on observations and science principles that includes proposing questions or hypotheses, and developing procedures for questioning, collecting, analyzing, and interpreting accurate and relevant data to produce justifiable evidence-based explanations.
- 6.4 Engineering Design: Engineering design is a process of identifying needs, defining problems, developing solutions, and evaluating proposed solutions.

7th Grade:

7.1 Structure and Function: Living and non-living systems are composed of components which affect the characteristics and properties of the system.

7.2 Interaction and Change: The components and processes within a system interact.

7.3 Scientific Inquiry: Scientific inquiry is the investigation of the natural world based on observations and science principles that includes proposing questions or hypotheses, designing procedures for questioning, collecting, analyzing, and interpreting multiple forms of accurate and relevant data to produce justifiable evidence-based explanations.

7.4 Engineering Design: Engineering design is a process of identifying needs, defining problems, identifying constraints, developing solutions, and evaluating proposed solutions

8th Grade:

8.1 Structure and Function: Systems and their components function at various levels of complexity.

8.2 Interaction and Change: Systems interact with other systems.

8.3 Scientific Inquiry: Scientific inquiry is the investigation of the natural world based on observations and science principles that includes proposing questions or hypotheses and designing procedures for questioning, collecting, analyzing, and interpreting multiple forms of accurate and relevant data to produce justifiable evidence-based explanations and new explorations.

8.4 Engineering Design: Engineering design is a process of identifying needs, defining problems, identifying design criteria and constraints, developing solutions and evaluating proposed solutions.

Since the standards are now an inch wide and a mile deep, I will be pulling many different resources to meet the new expectations. You can expect homework just about every night. Your child will be expected to take notes in his/her math or science spiral. Homework is to be completed in pencil and is to be done on time and in his/her best work. I may give an assignment back to your student and ask that it be redone to meet these expectations. If you any questions, feel free to contact me

Grading Policy:

Assignments 30%
Test/Quizzes/Projects 60%
Daily Readiness 10%