

# StMCS 7<sup>th</sup> and 8<sup>th</sup> Grade Mathematics Course Descriptions

## **7<sup>th</sup> Grade Pre-Algebra (Algebra Readiness, Pearson Education)**

***Pre-Requisite:*** Successful Completion of 6<sup>th</sup> Grade Math

This course is guided by the Minnesota K-12 Academic Standards in Mathematics. The course includes the study of number sense with basic introduction to the following topics: Data Analysis, Probability, Statistics, Algebra, and Geometry.

## **7<sup>th</sup> Grade Accelerated Pre-Algebra (Algebra Readiness, Pearson Education)**

***Pre-Requisite:*** Successful Completion of 6<sup>th</sup> Grade Math with Teacher Recommendation

This course is guided by the Minnesota K-12 Academic Standards in Mathematics. The course includes the study of number sense with an introduction to the following topics: Data Analysis, Probability, Statistics, Algebra, and Geometry. This course includes advanced study in select topics and proceeds at an accelerated pace. Students placed in this course have consistently held an above average grade in mathematics and are expected to be responsible and motivated to learn.

## **8<sup>th</sup> Grade Algebra (Algebra 1, Pearson Education)**

***Pre-Requisite:*** Successful Completion of 7<sup>th</sup> Grade Pre-Algebra

This course is guided by the Minnesota K-12 Academic Standards in Mathematics. The course includes the study of linear equations in one and two variables, graphing linear functions, systems of equations, properties of exponents, and an introduction to coordinate geometry.

## **8<sup>th</sup> Grade Accelerated Algebra (Algebra 1, Pearson Education)**

***Pre-Requisite:*** Successful Completion of 7<sup>th</sup> Grade Accelerated Pre-Algebra or Pre-Algebra with Teacher Recommendation

This course is guided by the Minnesota K-12 Academic Standards in Mathematics. The course includes the study of linear equations in one and two variables, graphing linear functions, systems of equations, properties of exponents, graphing exponential functions, properties of polynomials, solving and graphing quadratic functions and an introduction to coordinate geometry. This course includes some advanced study in select topics and proceeds at an accelerated pace. Students placed in this course have consistently held an above average grade in mathematics and are expected to be responsible and motivated to learn.

## **8<sup>th</sup> Grade Honors Algebra (Algebra 1, Pearson Education)**

***Pre-Requisite:*** Successful Completion of 7<sup>th</sup> Grade Accelerated Pre-Algebra with Teacher Recommendation

This course is guided by the Minnesota K-12 Academic Standards in Mathematics. The course includes the study of linear equations in one and two variables, graphing linear functions, systems of equations, properties of exponents, graphing exponential functions, properties of polynomials, solving and graphing quadratic functions, an introduction to coordinate geometry, probability, and statistics. This course includes an in depth study of select topics and moves at an expedited pace. Students placed in this course have consistently held an above average grade in mathematics and are expected to be responsible and highly motivated to learn.

***\*A particular placement in 7<sup>th</sup> Grade does not guarantee a parallel placement in 8<sup>th</sup> Grade. A student's math ability, work ethic, and effort all play a part in placement each year.***