

# 6<sup>th</sup> Grade Pre-load Math

## **Course Description**

The pre-load math class is a supplemental math class that supports and reinforces the curriculum presented in the general education setting. Students in this class will receive extra support, instruction and strategies based on hands-on, real world problems using the concepts taught in the general education setting. The idea behind this class is to pre-teach and re-teach the concepts in an attempt to provide students more knowledge and skills and therefore more confidence in completing the general education math assignments, while also being more active participants in the general education setting.

## **First Quarter:**

### -Numerical Expressions and Factors

In this chapter students will work with Whole # Order of Operations. They will also write numbers using exponents and also work with Prime Factorizations. Students will be asked to identify factors, multiples, greatest common factors and least common multiples of numbers.

### -Fractions and Decimals

In this chapter, students will learn about operations involving fractions and decimals. They will review adding and subtracting fractions and move into multiplying and dividing fractions and mixed numbers. Students will also work with multiplying and dividing decimals.

## **Second Quarter:**

### -Algebraic Expressions and Properties

In this chapter students will be asked to evaluate and write algebraic expressions. They will also work with the Properties of Operations

### -Area of Polygons

In this chapter students will learn how find the area of parallelograms, triangles, trapezoids, and compound figures..

### -Ratio and Rates

In this chapter students will learn how to calculate ratios and rates. They will also learn how to create tables and graphs to compare ratios and rates. Students will also work with percent and solve real world problems involving percentages.

## **Third Quarter:**

### -Ratio and Rates (Continued)

In this chapter students will learn how to calculate ratios and rates. They will also learn how to create tables and graphs to compare ratios and rates. Students will also work with percent and solve real world problems involving percentages.

**-Probability**

In this chapter students will explore probability using real world simulations. Students will explore theoretical and experimental probability, and also express probability as fractions, decimals, and percent.

**-Algebra**

In this chapter students will use real world situations to model algebraic expressions. They will be asked to represent situations as graphs, tables, and algebraic equations. Students will explore Slope and Y-intercept.

**Fourth Quarter:**

**-Surface Area and Volume**

In this chapter students will learn how to identify surface area and volume of three-dimensional figures. They will primarily work on prisms and pyramids.

**-Statistical Measures and Data Displays**

Students will work with measures of center, statistical deviations, and also create graphs and histograms.

**Supplies:** Needed everyday: 2 pencils – All other materials are provided.

**Quizzes:** There will be 10 short vocabulary quizzes. Also, there will 1-5 question quizzes weekly to check for concept understanding.

**Assignments:** Students will have no homework in this class. It is important for students to learn and review math concepts, but not to interfere with homework from the general education class.

**Class Participation:** Class participation is very important, as the goal is for students to learn real-world concepts using strategies and hands-on methods. Half of the grade is based on participation.

**Attendance:** Attendance is very important. Math is very sequential, meaning each day builds on the last.

**Grading:**

100 – 90 %	A
89 – 80 %	B
79 – 70 %	C
69 – 60 %	D