



Dear Parents,

In Mathematics, your child will work to answer the following questions through exploration of these ideas and concepts:

How are multiplication and division related?

- Understand that the multiplication symbol ‘x’ means “groups of.” (Ex: 5×7 refers to 5 groups of 7 objects).
- Understand in division situations you are partitioning a number of objects into equal shares. (Ex: $56 \div 8$ refers to when 56 objects are partitioned into equal shares of 8 objects each).
- Determine the unknown whole number in a multiplication or division equation using the relationship of the three numbers. (Ex: $8 \times ? = 48$; $5 = ? \div 3$; $6 \times 6 = ?$)
- Solve word problems involving multiplication and division within 100.
- Use a variety of strategies, including properties of operations, to multiply and divide within 100.
- Maintain fluency with 2, 5, and 10 facts; demonstrate fluency with 0, 1, 3, and 4 facts.

How can I use notation to represent my strategies for addition and subtraction?

- Use a variety of strategies to add and subtract within 1000.
- Round whole numbers to the nearest 10 or 100.
- Solve two-step word problems using the four operations.

How can I build four-digit numbers in more than one way?

- Understand that the four digits of a four-digit number represent amounts of thousands, hundreds, tens, and ones
- Read and write numbers to 10,000.

How can a fraction be represented in a variety of ways?

- Understand that a fraction means to divide a whole object into equal size parts.
- Understand what the numerator and the denominator represent in a fraction.
- Represent and explain fractions as numbers that are part of our number system and as numbers on the number line.
- Explain equivalence of fractions and compare fractions by reasoning about their size.
- Tell time using terms “quarter” and “half” as related to the hour; measure time intervals and solve problems involving elapsed time.

How can shapes belong to multiple categories?

- Explain how shapes in different categories (Ex: rhombuses, rectangles, etc.) can share *attributes* (Ex: having four sides) and the shared *attributes* can define a larger category.
- Recognize rhombuses, rectangles, and squares as examples of quadrilaterals and draw example of quadrilaterals that do not belong to subcategories.

In Science, your child will answer questions through exploration of ideas and concepts about *Weather and Climate*:

What is the typical weather in different parts of the world? How does this change throughout the year?

- Scientists record patterns of the weather across different times and areas so they can make predictions about what kind of weather might happen next.
- Climate describes a range of an area’s typical weather conditions and the extent to which these conditions vary over years.

How can the impact of weather-related hazards be reduced?

- A variety of natural hazards result from natural processes.
- Humans cannot eliminate natural hazards but can take steps to reduce their impacts.
- Claims can be made about the merit of a solution to a problem, citing relevant evidence from a variety of sources.