



Dear Parents,

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

What strategies do I have to divide?

- Divide multi-digit whole numbers using a variety of strategies, explaining their calculations through illustrations, equations, arrays and/or area models.
- Multiply multi-digit whole numbers using a variety of strategies, working to develop fluency (efficiency, accuracy, and flexibility) when using a standard algorithm.

How can visual models help support my operations with decimals?

- Understand why multiplying or dividing by a power of 10 shifts the *value* of the digits of whole number or decimal.
- Perform basic operations on decimals to the hundredths place using concrete models and drawings.

How can I use notation to represent my strategies for division involving fractions?

- Solve word problems involving division of natural numbers leading to answers in the form of fractions or mixed numbers using visual fraction models or equations. Interpret a *fraction* as division of the *numerator* by the *denominator* ($a/b = a \div b$)
- Use visual fraction models to show the quotient when dividing *unit fractions* by whole numbers and whole numbers by *unit fractions* (*unit fractions* contain "1" as the numerator).

How can I reason about the product when multiplying fractions?

- Multiply a *fraction* or whole number by a *fraction* using visual fraction models or equations.
- Solve word problem involving multiplication of fractions and mixed numbers using visual fraction models or equations.
- Explain multiplication as scaling (resizing) by comparing factors of related products and examining whether fractions will increase or decrease when you multiply by a fraction greater than or less than 1.

What strategies can I use to solve addition and subtraction problems involving fractions?

- Solve word problems involving addition and subtraction of *fractions* using visual fraction models or equations.
- Add and subtract *fractions* with unlike *denominators* using equivalent *fractions* and common *denominators*.

How can I organize two-dimensional figures based on their properties?

- Classify two-dimensional figures in a hierarchy based on their attributes and properties.
- Understand the coordinate plane system; graphing points and interpreting data on the coordinate plane.

In Science, your child will answer the following questions through exploration of ideas and concepts about *Earth's Systems*:

How is water distributed throughout the Earth?

- Nearly all of the Earth's available water is in the ocean.
- Most fresh water is in glaciers or underground; only a tiny fraction is in streams, lakes, wetlands, and the atmosphere.

How do the Earth's systems interact with each other?

- Earth's major systems include the: Geosphere (solid and molten rock, soil, and sediments); Hydrosphere (water and ice); Atmosphere (air); and the Biosphere (living things)
- These systems interact in multiple ways to affect Earth's surface materials and processes.
- The ocean supports a variety of ecosystems and organisms, shapes landforms, and influences climate.
- Winds and clouds in the atmosphere interact with the landforms to determine patterns of weather.

How do humans protect Earth's resources?

- Human activities in agriculture, industry, and everyday life have had major effects on the land, vegetation, streams, ocean, air, and even outer space.
- Individuals and communities are doing things/can do things to help protect Earth's resources and environments.