



Dear Parents,

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

How can I compare numbers using multiplication?

- Interpret multiplication equations as comparison situations (*Ex: interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5*)
- Solve word problems involving multiplicative comparisons

What strategies can I use to solve multi-step problems?

- Use a variety of strategies to solve multi-step word problems with whole numbers involving the four operations.
- Round multi-digit whole numbers to any place.
- Add and subtract multi-digit whole numbers with a variety of base ten strategies and recording systems.

How can I use place value to multiply and divide whole numbers?

- Multiply and divide multi-digit numbers using a variety of strategies, explaining their calculations through illustrations, equations, arrays and/or area models.
- Recognize that in a multi-digit number, a digit in one place represents ten times what it represents in the place to its right.
- Read, write, and compare multi-digit numbers.

How do I know when fractions are equivalent?

- Recognize, create, and explain why fractions are equivalent using visual fraction models.
- Recognize angles as geometric shapes formed when two rays share a common endpoint.
- Understand concepts of angle measurement and how an angle is measured with reference to a circle.

How can I classify two-dimensional figures?

- Classify two-dimensional figures based on *attributes* (including parallel or perpendicular lines and angles).
- Identify right triangles and recognize them as a category.

In Science, your child will answer questions through exploration of ideas and concepts about *Structure, Function, and Information Processing – Animals and Plants*:

How do internal and external structures support the survival, growth, behavior, and reproduction of plants and animals?

- Plants and animals have both internal and external structures that serve various functions in growth, survival, behavior and reproduction.
- A system can be described in terms of its components and their interactions.

How do animals receive, process, and respond to different types of information?

- Different sense receptors are specialized for particular kinds of information, which may then be processed by the animal's brain.
- Animals are able to use their perceptions and memories to guide their actions.
- Some responses to information are instinctive – that is, animals' brains are organized so that they do not have to think about how to respond to certain stimuli.
- An object can be seen when light reflected from its surface enters the eye.
- Because lenses bend light beams, they can be used to provide magnified images of objects too small or too far away to be seen with the naked eye.