2nd Grade Math and Science Expectations

2nd Quarter

Dear Parents,

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

What strategies can I use when I solve problems and how can I notate my thinking?

- Add and subtract within 100, using a variety of strategies, to solve one- and two-step word problems.
- Solve word problems involving dollar bills, quarters, dimes, nickels and pennies.
- Use the number line as a tool when solving addition and subtraction problems.
- Explain why addition and subtraction strategies work, using place value and properties of operations.

How can I use mental strategies to add and subtract?

- Maintain computational fluency of addition and subtraction within 10.
- Use a variety of strategies to add and subtract within 20.

How can I represent three-digit numbers in more than one way?

- Understand the three digits of a three-digit number represent amounts of hundreds, tens and ones.
- Count within 1000; skip-counting by 5s, 10s, and 100s.
- Read and write numbers to 1000.

What are the important things to remember when I measure?

- Measure with non-standard units of measure – understanding the importance of "no gaps/overlaps" and repetition of units when measuring

How can attributes help me identify shapes?

- Recognize and draw shapes having specified attributes, such as a given number of angles.
- Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.

In Science, your child will continue exploration of ideas and concepts about *Structure and Properties of Matter* and will begin to answer the following questions through exploration of ideas and concepts about *Earth's Systems: Processes that Shape the Earth*:

What are the different landforms and bodies of water on the surface of the Earth, and how do they change over time?

- Maps show where things are located.
- Maps can show the shapes and kinds of land and water in an area.
- Water is found in the ocean, rivers, lakes, and ponds.
- Water, as part of Earth's landforms, exists as solid ice and in liquid form.
- Wind and water can change the shape of the land.
- Some events happen very quickly, while other events occur very slowly over time.

What evidence can we find to prove that the Earth changes quickly and slowly, and how can we prevent these changes?

- Some events occur over a time period much longer than one can observe.
- Wind and water can change the shape of the land.
- Engineers develop solutions to prevent damage to Earth's surface.
- Multiple solutions may be available to a problem, so it's helpful to test and compare design solutions.