FIRST GRADE

MATH

Kindergarten through grade twelve math instruction emphasizes practices and activities that promote and integrate the eight Standards for Mathematical Practice and the Washington State Learning Standards.

Mathematical Practices:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Instructional time should focus on these critical learning standards:

1. Count to 120 starting at any number less than 120.
2. Represent and solve problems for addition and subtraction using multiple strategies within 20.
3. Understand place value, including grouping tens and ones, and use it to add, subtract, and order numbers.
4. Explain how addition and subtraction are related and use related facts to solve equations.
5. Measure length with units.

SCIENCE

Kindergarten through grade twelve science instruction emphasizes practices and activities that promote and integrate the eight Science and Engineering Practices and the Next Generation Science Standards. At each grade level, students develop an understanding of the physical sciences, life science, and Earth and space sciences. There is additional emphasis in incorporating student inquiry and critical thinking with STEAM (Science, Technology, Engineering, Art, and Math).

Science and Engineering Practices:

1. Asking Questions and Defining Problems
2. Developing and Using Models
3. Planning and Carrying Out Investigations
4. Analyzing and Interpreting Data
5. Using Mathematics and Computational Thinking
6. Constructing Explanations and Designing Solutions
7. Engaging in Argument from Evidence
8. Obtaining, Evaluating, and Communicating Information

Instructional time is focused on these essential questions and terms:

1. How can we predict when the sky will be dark? (observation, sunrise, sunset, daylight, light source)
2. How can we send messages using sound? (vibration, problem, solution, anatomy of the ear)
3. What are some ways that plants and animals meet their needs to grow and survive? (nutrient, fertilizer, parts of a plant, offspring, predator, variations)