

**BELLEFONTE AREA SCHOOL DISTRICT**  
**GRADE 1 FIRST MARKING PERIOD MATHEMATICS LEARNING OBJECTIVES**

**2.1 Numbers, Number Systems and Number Relationships**

*By the end of the first marking period, first grade students should be able to:*

- 1. Demonstrate an understanding of the use of numbers by:**
  - Counting on by 1s to 20, 2s to 8, and 5s (using a number grid) to 100.
  - Reading and writing numbers up to 20.
- 2. Demonstrate an understanding of ways to represent numbers by:**
  - Using tally marks to give equivalent names for whole numbers up to 20.
- 3. Demonstrate an understanding of number relationships by:**
  - Comparing and ordering whole numbers up to 20.

**2.2 Computation and Estimation**

*By the end of the first marking period, first grade students should be able to:*

- 1. Compute accurately by:**
  - Demonstrating proficiency with sum-equals-ten addition facts such as  $6 + 4 = 10$ .
  - Using manipulatives, number grids, tally marks, mental arithmetic, and calculators to solve problems involving the addition of 1-digit whole numbers with 1- or 2-digit whole numbers.
  - Calculating and comparing the values of combinations of coins.
- 2. Make reasonable estimates by:** (not assessed during first marking period)
- 3. Demonstrate an understanding of the meanings of operations by:** (not assessed during first marking period)

**2.3 Measurement and Estimation**

*By the end of the first marking period, first grade students should be able to:*

- 1. Measure accurately by:** (not assessed during first marking period)
- 2. Use reference frames (i.e. clocks, thermometers) by:**
  - Telling and showing time to the nearest hour on analog clock.

**2.6 Statistics and Data Analysis & 2.7 Probability and Predictions**

*By the end of the first marking period, first grade students should be able to:*

- 1. Select and create graphs using data by:** (not assessed during first marking period)
- 2. Analyze and interpret data by:** (not assessed during first marking period)
- 3. Demonstrate an understanding of probability by:** (not assessed during first marking period)

**2.8 Algebra and Functions, 2.10 Trigonometry, & 2.11 Calculus**

*By the end of the first marking period, first grade students should be able to:*

- 1. Demonstrate an understanding of patterns and functions by:** (not assessed during first marking period)
- 2. Use symbols to represent and analyze situations by:** (not assessed during first marking period)

**2.9 Geometry**

*By the end of the first marking period, first grade students should be able to:*

- 1. Demonstrate an understanding of 2- and 3- dimensional shapes by:** (not assessed during first marking period)
- 2. Apply transformations and symmetry by:** (not assessed during first marking period)