

Grade 2 Proficiency Level Descriptors

Minimal

Students performing at the minimal level are beginning to apply their mathematics knowledge and skills. They are learning to identify odd and even numbers and the relationships among whole numbers using place value and symbols. They are unsure about identifying the unit whole and naming fractions as equal parts using objects, pictures, words and symbols. Students have difficulty with basic addition and subtraction facts, and inaccurately compute 2- and 3-digit addition and subtraction problems. Students are learning to recognize, describe and create growing patterns and determine number relationships using mathematical symbols with limited accuracy. They are beginning to recognize the commutative and associative properties of addition. Students attempt to describe and classify some plane and solid geometric figures according to sides, angles, faces, edges and vertices, although they have difficulty composing and decomposing geometric shapes and describing part-whole relationships. They use inappropriate nonstandard and standard units and incorrect strategies to measure and estimate length, weight and capacity. They inaccurately determine the value of a set of coins, tell time to the quarter hour, and sequence events by time. Students are beginning to develop skills to interpret data using simple tables, bar graphs, pictographs and tallies.

Partial

Students performing at the partial level inconsistently apply their mathematics knowledge and skills. Their ability to identify odd and even numbers is increasing, as is their relationships among whole numbers using place value and symbols. They are developing an understanding of the unit whole and naming fractions as equal parts using objects, pictures, words and symbols. Students recall basic addition and subtraction facts, but compute 2- and 3-digit addition and subtraction, multiplication and division problems with limited consistency. Students recognize, describe, create and are beginning to extend growing patterns. They occasionally determine number relationships using mathematical symbols, and are starting to recognize and use the commutative and associative properties of addition. Students describe and classify some plane and solid geometric figures according to sides, angles, faces, edges and vertices. They occasionally compose and decompose geometric shapes and describe part-whole relationships. They are beginning to use the appropriate nonstandard and standard units to measure and estimate length, weight and capacity. They are often inaccurate in determining the value of a set of coins telling time to the quarter hour, and sequencing events. Students inconsistently interpret data using simple tables, bar graphs, pictographs and tallies.

Grade 2 Proficiency Level Descriptors

Sufficient

Students performing at the sufficient level apply mathematics knowledge and skills appropriately. They identify odd and even numbers, and the relationships among whole numbers using place value and symbols. They identify the unit whole and name fractions as equal parts using objects, pictures, words and symbols. Students compute 2- and 3-digit addition and subtraction, simple multiplication and division problems. Students recognize, describe, create and extend growing patterns and determine number relationships using mathematical symbols. They use the commutative and associative properties of addition. Students describe, classify and create plane and solid geometric figures according to sides, angles, faces, edges and vertices. They compose and decompose geometric shapes and describe part-whole relationships. They use appropriate nonstandard and standard units to measure and estimate length, weight and capacity, and determine the value of a set of coins, tell time to the quarter hour, and sequence events by time. Students interpret data using simple tables, bar graphs, pictographs and tallies.

Substantial

Students performing at the substantial level consistently apply mathematics knowledge and skills appropriately. They accurately identify odd and even numbers, and use their knowledge of number relationships, place value, and symbols to solve problems. They recognize the relationship of the unit whole to its parts and name fractions as equal parts using objects, pictures, words and symbols. Students fluently compute 2- and 3-digit addition and subtraction, simple multiplication and division problems. They effectively analyze, create, and extend growing patterns to determine number relationships using mathematical symbols, and use the commutative and associative properties of addition to simplify calculations. Students consistently describe, analyze, classify, and create plane and solid geometric figures according to sides, angles, faces, edges and vertices. They compose and decompose geometric shapes and compare part-whole relationships. They accurately use appropriate nonstandard and standard units to measure and estimate length, weight, and capacity. Students determine the value of a set of coins, tell time to the quarter hour, and sequence events by time with ease. They interpret and analyze data using tables, bar graphs, pictographs and tallies.