

K-2 Mathematics at a Glance

| | Kindergarten | First Grade | Second Grade |
|--------------------------------------|---|---|--|
| Numbers and Operations | <ul style="list-style-type: none"> ● Count to 30 ● Number words to ten ● Write numerals to 20 ● Compare sets up to 10 ● Estimate to 5 or 10 ● Identify coins (penny nickel, dime, quarter) ● Count money to 30 cents ● Ordinal numbers 1st – 10th ● Share equally (2 or 3 sets) ● Model Addition and Subtraction ● Use pictures, numbers, or words to solve problems | <ul style="list-style-type: none"> ● Count , represent, and order numbers to 100 ● Compare using >,<,<= ● Identify bills ● Count money to \$20 ● Make fair trades to less than \$20 ● Place value to 100 ● Round to the nearest 10 ● Addition and Subtraction to 100, understand Inverse Relationships ● Skip count by 2's, 5's, and 10's forward and backward ● Addition and subtraction facts to 18 ● Share equally (2-5 sets) ● Patterns (even and odd) ● Fractions (halves, fourths) ● Use pictures, numbers, or words to solve problems | <ul style="list-style-type: none"> ● Place value to 4 digits ● Multiple representations of numbers ● Count back change, use dollar and cent symbols ● Basic properties of addition ● 3-digit addition and subtraction with and without regrouping ● Estimation ● Concepts of Multiplication ● Comparing Fractions (thirds, sixths, eighth, tenths) ● Understand how many pieces make a whole ● Use boxes to represent missing values ● Equality and Inequality ● Use pictures, numbers, or words to solve problems |
| Measurement | <ul style="list-style-type: none"> ● Compare/order length, capacity, height, weight ● Calendar : days of the week, months of the year, four seasons ● Order events ● Time: morning, afternoon, and night | <ul style="list-style-type: none"> ● Directly compare/order length, weight, capacity by estimation and use of tools ● Nonstandard units of measure ● Relationship of minute hand and hour hand ● Time to the nearest hour and half hour ● Using a calendar ● Sequence events | <ul style="list-style-type: none"> ● Measure (inch, foot, yard, centimeter, meter) ● Estimate length ● Determine appropriate measurement tool ● Tell time to nearest 5 minutes ● Number of minutes in an hour and hours in a day ● Measure and Estimate temperature (Fahrenheit) |
| Geometry | <ul style="list-style-type: none"> ● Identify, Combine and compare 2-D and 3-D Shapes ● Spatial / Positional Relationships ● Identify, compare, and extend patterns | <ul style="list-style-type: none"> ● Create 2-D and 3-D figures ● Classify and compare shapes ● Spatial / Positional reasoning | <ul style="list-style-type: none"> ● Describe and Classify 2-D and 3-D Shapes according to attributes ● Decomposing 2-D / 3-D composite figures and describe changes |
| Data Analysis and Probability | <ul style="list-style-type: none"> ● Question ● Collect data ● Pictographs | <ul style="list-style-type: none"> ● Create and interpret tables and graphs (include bar graphs) ● Tally marks | <ul style="list-style-type: none"> ● Create and interpret tables and graphs (include Venn Diagrams and charts/tables) |
| Process Skills | Problem Solve, Arguments, Math Vocabulary, Interconnectivity, Communication | Problem Solve, Arguments, Math Vocabulary, Interconnectivity, Communication | Problem Solve, Arguments, Math Vocabulary, Interconnectivity, Communication |