

Urbana School District #116
SECOND GRADE CORE EXPECTATIONS

MATHEMATICS

Illinois State Goal 6: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions.

| State Standard | District Core Expectations |
|--|---|
| 6A: Demonstrate knowledge and use of numbers and their representations in a broad range of theoretical and practical settings. | <ul style="list-style-type: none"> • Build, identify and write numbers up to 1,000 • Know place values to 1,000 • Order and compare numbers up to 1,000 • Uses <, >, and = • Identify and compare 1/2s, 1/4s, and 1/3s |
| 6B: Investigate, represent and solve problems using number facts, operations (addition, subtraction, multiplication, division) and their properties, algorithms and relationships. | <ul style="list-style-type: none"> • Solve problems involving addition (1- and 2-digits) with and without regrouping. • Solve problems involving addition and subtraction without regrouping. • Solve money problems up to \$1.00. • Use the relationship between addition and subtraction to solve problems (fact families) to 20. |
| 6C: Compute and estimate using mental mathematics, paper-and-pencil methods, calculators and computers. | <ul style="list-style-type: none"> • Make reasonable estimates in different situations • Round to the 10s place |
| 6D: Solve problems using comparison of quantities, ratios, proportions and percents. | NA |

Illinois State Goal 7: Estimate, make and use measurements of objects, quantities and relationships and determine acceptable levels of accuracy.

| State Standard | District Core Expectations |
|--|---|
| 7A: Measure and compare quantities using appropriate units, instruments and methods. | <ul style="list-style-type: none"> • Tell time to the nearest half hour • Tell the relationship between days, weeks, months, and years • Choose and use the right tool to measure things • Measure length using centimeters, inches, and feet |
| 7B: Estimate measurements and determine acceptable levels of accuracy. | <ul style="list-style-type: none"> • Compare and estimate length |
| 7C: Select and use appropriate technology, instruments and formulas to solve problems, interpret results and communicate findings. | |

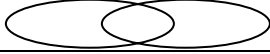
Illinois State Goal 8: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems, and predict results

| State Standard | District Core Expectations |
|--|---|
| 8A: Describe numerical relationships using variables and patterns. | <ul style="list-style-type: none"> Describe and create shape or number patterns Write a number sentence for a word problem |
| 8B: Interpret and describe numerical relationships using tables, graphs and symbols. | |
| 8C: Solve problems using systems of numbers and their properties. | |
| 8D: Use algebraic concepts and procedures to represent and solve problems. | <ul style="list-style-type: none"> Solve missing addend word problems (Ex: I had 10 apples. George came and took some. I have 2 left. How many did George take?) |

Illinois State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space.

| State Standard | District Core Expectations |
|---|--|
| 9A: Demonstrate and apply geometric concepts involving points, lines, planes, and spaces. | <ul style="list-style-type: none"> Identify and draw pentagon, octagon, hexagon, trapezoid Identify cone, sphere, pyramid, cylinder, cube, and prism Label and describe face, edge and corner of 3-D shapes Locate and identify points using numbers and symbols on a grid Create and identify shapes that have line symmetry Identify flips, slides, or turns |
| 9B: Identify, describe, classify and compare relationships using points, lines, planes, and solids. | <ul style="list-style-type: none"> Know the relationship between 3D and 2D shapes Know that "congruent" objects have the same size and shape |
| 9C: Construct convincing arguments and proofs to solve problems. | |
| 9D: Use trigonometric ratios and circular functions to solve problems | <ul style="list-style-type: none"> Application of standard 9D begins in middle school |

Illinois State Goal 10: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.

| State Standard | District Core Expectations |
|---|---|
| 10A: Organize, describe and make predictions from existing data. | <ul style="list-style-type: none"> Read and create tables, tally charts, and Venn diagrams  |
| 10B: Formulate questions, design data collection methods, gather and analyze data and communicate findings. | |
| 10C: Determine, describe and apply the probabilities of events. | <ul style="list-style-type: none"> Tell when something is most likely or least likely |

Revised 7/06