



# Upper Elementary Montessori Outcomes

Kansas City Missouri School District



## **Mathematics**

### *Numbers and Operations*

- Use all operations abstractly with whole numbers, decimals, fractions, and signed numbers
- Identify numerical place value from one millionth to one million
- Know division facts to 10
- Solve multi-step computation problems for all operations (including estimation and word problems)
- Provide written explanation for problem solving processes utilized
- Demonstrate an understanding of the 4 operational properties (commutative, associative, distributive and reflexive)
- Calculate and convert percentages, and decimal and fractional numbers

### *Algebraic Relationships*

- Solve basic 2 to 3 step algebraic problems using correct order of operations
- Graph and identify points on a coordinate graph including a negative quadrant
- Demonstrate an understanding of finding square and cube roots
- Write a variable equation from a given word problem

### *Measurement*

- Make basic conversions with both metric and standard units of measurement
- Measure to the nearest  $\frac{1}{4}$  inch or 1mm for linear measurement
- Identify, measure and choose the proper unit of measure for length, volume and mass
- Calculate the volume of prisms

### *Geometry and Spatial Relationship*

- Calculate perimeter, area and circumference for both regular and irregular shapes
- Identify and create line relationships including segments, rays, intersections, parallel and perpendicular
- Using a protractor, measure and classify all types of angles
- Identify and create three dimensional solids
- Calculate different lengths of sides in similar polygons

### *Data and Probability*

- Create and interpret graphs and tables including, pictograph, bar, line, pie, frequency and stem-leaf plot
- Recognize and explain regular and variable rates of change on graphs
- Calculate mean, median, mode, range and outliers
- Predict outcomes when provided a basic set of data
- Represent and interpret ratios when provided a basic set of data

## **Reading**

- Read fiction and nonfiction material with accuracy, fluency and comprehension at a beginning grade 7 reading level
- Use comprehension strategies before, during and after reading (i.e. identifying story elements, movement through time, predicting, summarizing, sequencing, cause and effect, compare and contrast, state main idea)
- Demonstrate personal, world and text to text connections through written expression
- Use reference resources (i.e. dictionary, encyclopedia, atlas, thesaurus and internet websites)
- Distinguish between primary and secondary sources

## **Writing**

- Identify all parts of speech and use in written sentences
- Create in published format a narrative story and another self selected form of written expression (i.e. poem, play, business, friendly letter, etc.)
- Demonstrate use of simple and complex sentences, correct capitalization and punctuation including quotation marks in selected published pieces
- Write a Research or Feature Article that includes 5 paragraphs or more, topic sentences, introductory paragraph, appropriate summary and a related sources listing

*The following outcomes are the same for both Lower and Upper Elementary Age Groups. Different observed expectations will be listed for the two age groups through the assessment of the outcomes.*

## **Work Habits**

- Organize and keep track of school materials
- Follow through with classroom assigned work
- Work cooperatively as a team member
- Remain focused on task at hand
- Use a visual planner (i.e. organizer, log, outlook list, calendar) for work assignments
- Choose challenging work
- Produce quality work
- Be able to self evaluate and assess

## **Social Skills**

- Demonstrate a cooperative attitude in the learning community
- Show respect for self, others and the school environment
- Communicate effectively with adults and peers
- Use effective and peaceful conflict resolution strategies
- Demonstrate independently problem solving skills
- Use common courtesy and good manners
- Take responsibility for own actions