

MATH PRE CHART

M.PK.PS	<u>PROBLEM SOLVING</u>	
PS.1	Explore, examine, and make observations about a social problem or mathematical situation	
PS.2	Interpret information correctly, identify the problem, and generate possible solutions	
PS.3	Act out or model with manipulative activities involving mathematical content from literature and/or story telling	
PS.4	Formulate problems and solutions from everyday situations (e.g., as counting the number of children in the class or using the calendar to teach counting)	
PS.5	Use informal counting strategies to find solutions	
PS.6	Experience teacher-directed questioning process to understand problems	
PS.7	Compare and discuss ideas for solving a problem with teacher and/or students to justify their thinking	
PS.8	Use manipulatives (e.g., tiles, blocks) to model the action in problems	
PS.9	Use drawings/pictures to model the action in problems	
PS.10	Explain to others how a problem was solved, giving strategies	
M.PK.RP	<u>REASONING AND PROOF</u>	
RP.1	Understand that mathematical statements can be true or false	
RP.2	Investigate the use of knowledgeable guessing as a mathematical tools	
RP.3	Explore guesses, using a variety of objects and manipulative	
RP.4	Listen to claims other students make	
M.PK.CM	<u>COMMUNICATION</u>	
CM.1	Understand how to organize their thought processes with teacher guidance	
CM.2	Share mathematical ideas through the manipulation of objects, drawings, pictures, and verbal explanations	
CM.3	Listen to solutions shared by other students	
CM.4	Formulate mathematically relevant questions with teacher guidance	
CM.5	Use appropriate mathematical terms, vocabulary, and language	
M.PK.CN	<u>CONNECTIONS</u>	
CN.1	Recognize the presence of mathematics in their daily lives	
CN.2	Use counting strategies to solve problems in their daily lives	
CN.3	Recognize and apply mathematics to objects and pictures	

PK.R	<u>REPRESENTATION</u>	
R.1	Use multiple representations, including verbal language, acting out or modeling a situation, and drawing pictures as representations	
R.2	Use standard and nonstandard representations	
R.3	Use objects to show and understand physical phenomena (e.g., guess the number of cookies in a package)	
R.4	Use objects to show and understand social phenomena (e.g., count and represent sharing cookies between friends)	
R.5	Use objects to show and understand mathematical phenomena (e.g., draw pictures to show a story problem, show number value using fingers on your hand)	
M.PK.N	<u>NUMBER SENSE AND OPERATIONS</u>	
N.1	Count the items in a collection and know the last counting word tells how many items are in the collection (1 to 10)	
N.2	Count out (produce) a collection of a specified size 1 to 10	
N.3	Verbally count by 1's to 10	
N.4	Explore the different representations of a group of objects	
N.5	Draw pictures or other informal symbols to represent a spoken number up to 5.	
N.6	Draw pictures or other informal symbols to represent how many in a collection up to 5	
N.7	Recognize numerals (0-5)	
N.8	Use and understand the terms <i>first</i> and <i>last</i>	
N.9	Develop addition and subtraction readiness with sums up to 4 and subtraction involving one to four items, using manipulatives	
M.PK.A	<u>ALGEBRA</u>	
A.1	Duplicate simple patterns using concrete objects	
M.PK.G	<u>GEOMETRY</u>	
G.1	Match shapes, first with same size and orientation, then with different sizes an orientation	
G.2	Informally play with solids (e.g., building blocks)	
M.PK.M	<u>MEASUREMENT</u>	
M.1	Develop language such as bigger, longer, and taller to discuss length (<i>Unit of Measurement</i>)	
M.2	Relate specific times such as day and night	
M.PK.S	<u>STATISTICS AND PROBABILITY</u>	
S.1	Sort and organize objects by one attribute (e.g., color, size, or shape)	
S.2	Use physical objects to make graphs	
S.3	Count and compare groups formed (quantify groups formed)	
S.4	Describe the attributes of objects	