

ACADEMIC STANDARDS AND LEARNING INDICATORS

CLASS : III MATHS

Area	Key concepts	AS ₁ (Problem Solving)	AS ₂ (Reason & Proof)	AS ₃ (Communication)	AS ₄ (Connection)	AS ₅ (Representation)
Numbers Operations	<ul style="list-style-type: none"> • Numbers • Additions • Subtractions • Multiplications • Division 	<ul style="list-style-type: none"> • Counts from any number by using groups as 100s, 10s, ones • Can complete given sequences of numbers up to 999 • Able to find the sum of two numbers by joining, combining by grouping, regrouping up to 999. • Can solve the problems of the additions, subtraction of the numbers horizontally, vertically up to 3 digit numbers in different situations (i.e addition – “joining” and “combining” activities) (i.e. is subtraction – activities of “eliminating”, “remaining” (partition) “reduction”, “comparison” and counter addition) 	<ul style="list-style-type: none"> • Estimates the number of objects in a group up to 50. • Compares the numbers upto 999 based on place value • Can form the greatest and smallest two digit and three digit numbers with, and without repetition a given digits. • Determines the reasonableness of calculated answers in addition, subtraction • Creates patterns using numbers involving addition and subtractions up to 50 • Identifies errors in solving addition, subtraction and multiplication • Round the numbers upto the nearest 10s and 100s 	<ul style="list-style-type: none"> • Able to read and write 3 digit numbers (Numbers to words and words to numbers vice versa) • Comparing any 3 digit numbers using symbols (<, >, =) • Pupils can create new problems on their own (addition & subtraction) 	<ul style="list-style-type: none"> • Applies addition subtraction simple multiplications division of 1 digit daily life situations • Uses three digit numbers in daily life (school strength, purchasing articles, pay of workers etc) 	<ul style="list-style-type: none"> • Represents the numbers up to 999 as numbers using cubical blocks.

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		<ul style="list-style-type: none"> • Can multiply two digit numbers with one digit number. • Solves the problems on division (division is single digit, without remainder) • Can write the given numbers in ascending, descending orders. • Can expand the numbers according to place values and also write short form at a expanded number. 				
Geometry	<ul style="list-style-type: none"> • Shapes and spatial understanding 	<ul style="list-style-type: none"> • Sorts object using characteristics of shapes • Identify the object by observing different view • Identify basic 2D shapes like square, rectangle, triangle and circle • Distinguishes between the shapes that tile and do not tile • Identifies the 3D objects when we trace, its shapes would be circle, square and rectangle 	<ul style="list-style-type: none"> • Can identify shapes in the given figure and give appropriate reason • Describes relationship between shapes of cuboids and the net of cuboids. • Gives reason for tiles of a given region using a given tile shape • Create patterns using with shapes. 		<ul style="list-style-type: none"> • can connect the knowledge of 2D shapes to real life objects in their surroundings 	<ul style="list-style-type: none"> • can draw 2D shapes on grid paper • can divide into two halves and represents halves in a whole • identify different shapes using different colours into different shapes
Day to Day maths	<ul style="list-style-type: none"> • Money • Length 	<ul style="list-style-type: none"> • Can solves the problems with contextual day to day life situations 		<ul style="list-style-type: none"> • can make new problems on daily situations 	<ul style="list-style-type: none"> • can solve day to day life problems 	<ul style="list-style-type: none"> • they can make bill

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	<ul style="list-style-type: none"> Weight Capacity Time 	involving four fundamental operations with measurements (money, length, weight, capacity, time) <ul style="list-style-type: none"> Prepares rate charts and bills 			involving more than two concepts / operations	
Measurements	<ul style="list-style-type: none"> Length Weight Capacity Time 	<ul style="list-style-type: none"> Can measure the lengths at objects by using scale and calculate the lengths Can measure the capacity of a vessel by using small vessels can calculate its capacity (by using standard unit vessels also) Can solve the problems on capacity and time Can identify by the date, week, month and years through calendar. 	<ul style="list-style-type: none"> Estimates the length at given objects like tables blackboard etc in standard units (cm's) Estimate weight and capacity in standard units Can identify which is heavy and which is lighter objects They can select the combination of small weight equal to the given weight Can find the simple patterns of numbers from the calendar to foarm a square. 	<ul style="list-style-type: none"> Can explain the need of standard units in measuring lengths, capacity weight Appreciates the conservations of weight and capacity 	<ul style="list-style-type: none"> Can use of the concepts at length, weight, capacity time in daily life problems 	<ul style="list-style-type: none"> Can represents the time in the clock (only hours)
Data handling	<ul style="list-style-type: none"> Collection of data Organizing data Tally marks Pictographs 	<ul style="list-style-type: none"> Collect the suitable data for the tabulating 		<ul style="list-style-type: none"> Comments on the data 		<ul style="list-style-type: none"> Represent the data in tabular form Represent the data with tally marks.