


SPLIT UP OF SYLLABUS 2008-09

MATHS

TEXT BOOK — MATH-MAGIC FOR CLASS V

MONTH	CHAPTER & TOPIC	COMPETENCY	EXPECTED LEARNING OUTCOME	SUGGESTED ACTIVIES	SKILL/VALUES CORRELATION
April/ May	Chapter – 1 The Fish Tale	Concept of Number Ability to Compute Problem Solving Ability	— Read and write the numerals in figure & the corresponding number name. — To develop Mathematical concepts such as shapes, estimation, sense of large numbers, simple operations, speed, loans etc. — To solve the daily life problems.	— Draw the different kind of fish of different length and compare their lengths. — Find the price of potato and onion per kg from the market and calculate amount for different quantities. — Teacher can give the example of potato chips like fish-drying factory. Let them calculate the Profit and Loss. — Note the big numbers upto crore from their own experiences ? Write them in words.	— Reading and Writing the numbers. — Solving daily life problems involving basic operations. — Sketching with accuracy — Correlated with E. V. S. and G. K.
June	L – 2 Shapes and	Understanding of Basic	— To know different kinds of angles	— Make different shapes with the help of Match	— To develop sequential

	Angles	<p>Concept</p> <ul style="list-style-type: none"> — To compare the angles <p>Ability to Compute</p> <ul style="list-style-type: none"> — Measurement of angles — Draw the different angles <p>Mental Ability Solving Ability</p> <ul style="list-style-type: none"> — To develop creativity — To know that when the angle changes the shape will also change 	<ul style="list-style-type: none"> — Sticks and observe their angles formed in. — Write your name by using straight line segments. Now count the right angles formed in your name. — Write what kind of angle is made by the hands in the clock in different time. — Draw different kind of angles and make the things of your choice showing the angle. E. g.:  <ul style="list-style-type: none"> — Draw angles of different measures. — Puzzles. 	<p>thinking and accuracy.</p> <p>— Sketching with accuracy.</p>
July	L – 3 How many squares ?	<p>Understanding Basic Concept</p> <ul style="list-style-type: none"> — To compare the things in terms of area. — To estimate the things which is bigger. 	<ul style="list-style-type: none"> — Draw different shapes on a squared sheet and calculate their area by counting squares. 	<ul style="list-style-type: none"> — Estimation — Skill of measurement

		<p>Ability to Compute</p> <p>Mental Ability</p>	<ul style="list-style-type: none"> — Children will be able to modify basic shapes to create different tiling shapes. — To find the area of different objects. 	<ul style="list-style-type: none"> — Measure the area of irregular things as leaf, foot print, your palm etc. — Make different patterns of tiles of their choice. 	<ul style="list-style-type: none"> — Skill of reasoning and thinking
	L – 4 Parts and Wholes	<p>Understanding Basic Concept</p> <p>Ability to Compute</p>	<ul style="list-style-type: none"> — To get the idea of parts and whole — To calculate the prices of parts of the whole food items : e. g. $\frac{1}{2}$ kg of tomato. 	<ul style="list-style-type: none"> — Draw figures for different fractions. — Paper folding and paper cutting. — Make your daily routine time table. What part of the day to you use for different activities ? — Collect the different bills and discuss the fraction of different items in the class. 	<ul style="list-style-type: none"> — Develop analytical ability and comparison.
August	L – 5 Does it look the same ?	<p>Understanding Basic Concept</p> <p>Problem Solving Ability</p>	<ul style="list-style-type: none"> — Observe and understand the symmetry. — Applies the knowledge to divide the things with different symmetry. 	<ul style="list-style-type: none"> — Show the symmetry by paper folding. — Show the symmetry in alphabets by dotted lines. — Make the concept of half turn and one fourth turn by giving the 	<ul style="list-style-type: none"> — Develop analytical ability and comparison

				<p>example of water tap and almirah lock.</p> <ul style="list-style-type: none"> — Make a toy wind mill. — The children will get idea of $\frac{1}{3}$ and $\frac{1}{6}$ through various activities like cutting of apples, Roti, Bread etc. 	
	L – 6 Be My Multiple, I'll be Your Factor.	<p>Understanding Basic Concept</p> <p>Ability to Compute Tables</p>	<ul style="list-style-type: none"> — Understands the concepts of prime and composite numbers. — Understands the concept of common factors and common multiples. — Makes prime factorisation of a number. — Determine the HCF and LCM. 	<ul style="list-style-type: none"> — Find the multiples of different numbers by playing games. — Find the common multiples by playing dice game. — Puzzles. — Make factor tree. — Complete the multiplication chart to find the multiples and factors. 	<ul style="list-style-type: none"> — Solving daily life problems involving basic operations of multiplication and division
September	L – 7 Can you see the pattern ?	<p>Understanding Basic Concept</p> <p>Ability to Compute</p> <p>Problem Solving</p>	<ul style="list-style-type: none"> — To understand the sequence of the patterns. — To develop creativity and logical thinking. — To develop their own 	<ul style="list-style-type: none"> — Complete the number and picture patterns. — Creates patterns of their own. — Solve magic square, hexagon. — Activity : "Secret 	<ul style="list-style-type: none"> — Creativity — Development of the mental ability

		Ability	<p>pattern.</p> <ul style="list-style-type: none"> — To enjoy and learn with numbers. 	<p>Numbers”.</p> <ul style="list-style-type: none"> — Activity : “Number Surprises”. — Activity : “Fun with Numbers”. 	
	L – 8 Mapping Your Way	<p>Understanding Basic Concept</p> <p>Ability to Compute</p> <p>Problem Solving Ability</p>	<ul style="list-style-type: none"> — To enable the children to observe the map and find out the route. — To understand the scale of the map. — To draw and make the map with different scales. 	<ul style="list-style-type: none"> — Draw the route map of their house to school, any mall, any park etc. — Activity : “Central Hexagon”. — Enlarging and reducing the figures and maps through squares. — Draw the map of school building on square. — Find the distance between Gurgaon Bus stand to Delhi ISBT and any other places from the map. 	<ul style="list-style-type: none"> — Reading of route map. — E. V. S. — Reading of map. — Use of scale in Map.
October	L – 9 Boxes and Sketches	<p>Understanding Basic Concept</p> <p>Problem Solving Ability</p>	<ul style="list-style-type: none"> — To develop mental image of shapes. — To identify the 2-D and 3-D shapes. — To enable the children to differentiate between 	<ul style="list-style-type: none"> — To draw 3-dimensional shapes on paper. — Make a layout plan of your house. — Make the different types of boxes by 	<ul style="list-style-type: none"> — Develop mathematical ability and creativity

			<p>deep drawing and layout plan.</p>	<p>using Postal Sheet.</p> <ul style="list-style-type: none"> — Make the floor map and deep drawing of your house. — Puzzles. — Draw a 2-D figure by cutting and flatterring the edges of a match box of cube-shaped. 	
November	L – 10 Tenths and Hundredths	<p>Basic Concept</p> <p>Ability to Compute</p> <p>Problem Solving Ability</p>	<ul style="list-style-type: none"> — Estimation of measurement — To measure the things in cm. and mm. — To convert a fraction into decimal and vice-versa. — To solve the problems of money transactions. — Measurement of temperature — Able to solve simple addition and subtraction of decimals. 	<ul style="list-style-type: none"> — Measure the different things in cm. and mm. with the help of scale. They will also convert cm. into mm. and vice-versa. — Estimate different lengths of different objects in cm. and mm. — Organise a fun-fair in the class. Buying and selling things gives the child an understanding of ideas of money transaction individually. — With the help of graph paper and by using colours. Teacher will explain decimals, fractions and relation between them. 	

				<ul style="list-style-type: none"> — Write money, unit of length, unit of mass in decimals and in fractions. — Students will note the temperature of different cities from the newspapers or T. V. (in degree Celsius) and find the difference of temperature at two different times of the day. 	<ul style="list-style-type: none"> — Ability to measure the things with accuracy. — Sense of estimation. — Solve daily life problems.
December	L – 11 Area and its Boundary	<p>Basic Concept</p> <p>Ability to Compute</p> <p>Problem Solving Ability</p>	<ul style="list-style-type: none"> — Concept of area and perimeter. — Ability to Compute area and perimeter of a square and rectangle figure by formula. — State the unit of area and perimeter. — To understand that things of same area can take different forms and have different perimeters. — Estimate area in sq cm, sq m. 	<ul style="list-style-type: none"> — Paste the different cutouts and find their area and perimeter. — Make your own designs of area 5 and 8 sq cm. — Make birthday cards. Find its length and width and calculate its area and perimeter. — Take a drawing sheet, find its area and perimeter. Then cut it into small strips. Make a belt and find the area. (Same area can 	<ul style="list-style-type: none"> — Children area able to judge the area and perimeter of different things. — Skill of reasoning and thinking.

			<ul style="list-style-type: none"> — Estimate the area of different things into sq cm, sq m and sq km. 	<p>have different perimeter.)</p>	
December	L – 12 Smart Charts	<p>Basic Concept</p> <p>Ability to Compute</p>	<ul style="list-style-type: none"> — To express the given data in tabulation form and in terms of pictures and vice-versa. — Collect and records data systematically. — Interpret information given in the table and pictorial representation. 	<ul style="list-style-type: none"> — Record strength of different sections of Class V, represent them in tabulation form and in pictorial form. — Encourage children to look at the map of India to locate different cities. They can try to relate the temperature variations in a city to get an idea of the climate there. — Children should be encouraged to use tally mark simultaneously to record data of a variety of things with larger numbers. — Make a bar chart of birthday of your classmates in different months. — Make your family-tree or school staff tree. — Make growth chart of your marks in different unit-test. 	<ul style="list-style-type: none"> — Observation, classification, collection of data and interpretation — Creativity.

January	L – 13 Ways to multiply and divide	Understanding Basic Concept Ability to Compute Tables	<ul style="list-style-type: none"> — To know the different ways of multiplication. — Division. — Terms used in multiplication and division. (Multiplier and product) (Divident, Divisor and Quotient.) 	<ul style="list-style-type: none"> — Collect the number-game, tricks involving multiplication and division. — Multiply any two numbers in different ways by eg. Of breaking method and column method. — Multiply and divide sums with class-room situation. — Determine the division and multiplication facts of a given number of 1-digit or 2-digits using a 10 × 10 multiplication grid. — Problem sums related to daily life. — Do sums of division and check your result by multiplication. 	<ul style="list-style-type: none"> — Calculation with accuracy and promptly. — Able to solve daily life problems.
January	L – 14 How big ? How heavy	Basic Concept Ability to Compute	<ul style="list-style-type: none"> — Concept of Volume. — Calculate and compare the volume of different things. 	<ul style="list-style-type: none"> — Children will paste a paper-strip on a glass and mark the level of water. Dip different things as stones, marbles etc., and note the level of water and 	<ul style="list-style-type: none"> — Develop sense of size. — Drawing skill. — Skill of imagination

		Problem Solving Ability	<ul style="list-style-type: none"> — Guess the Volume by informal measurement (using marbles, coins, match boxes etc.) — Determine the volume in litre and cubic cm. by measuring devices. — Solve problems related to volume. 	<p>find their volume.</p> <ul style="list-style-type: none"> — Find the volume of tea-box, match box, pencil box etc. — Collect empty match boxes, arrange them in an interesting way and find the total volume and volume of one match-box. — Make a paper cube and find volume. — For finding the volume of different shapes, the teacher can make different models. 	<p>and thinking.</p> <ul style="list-style-type: none"> — Measurement skill.
February			Revision of the whole syllabus for Session-Ending Examination. Revise Multiple Choice Questions also.		
March			Session-Ending Examination.		