	Academic Planner 2019-20		
	Sub: Mathematics - Class IV		

Date	Topic	Assignments/ Homework	Activity/Teaching Technique
April 1-15th April (11 days)	**Unit-1** **LARGE NUMBERS** 5- and 6 -Digit Numbers Face value and place value Expanded and short forms Comparing numbers Forming numbers Rounding off numbers Roman numerals Mental Maths Maths around us **Unit-2** **ADDITION** Addition of 5- and 6- digit numbers without regrouping Addition of 5- and 6- digit numbers with regrouping	Ex 1.1 -1.5 Pg – 23 Pg - 24 Ex 2.1	*Lab activity* – Understanding numbers using tambola game. *Lab activity* – Forming word problems using flash cards.
16-30th April (11 days)	Properties of addition of numbers Finding the missing digits Word problems Estimating the sum Mental maths Maths around us **Unit - 3** ***SUBTRACTION*** Subtraction of 5- and 6- digit numbers without regrouping Subtraction of 5- and 6- digit numbers with regrouping Properties of Subtraction Checking subtraction by addition Addition & Subtraction together	Ex 2.2 -2.5 Pg – 35 Pg – 37 Ex 3.1 – 3.4	*Lab activity*–To reinforce the concept of subtraction of large numbers
May 1-15th May (11 days)	Finding the missing digits Word problems Estimating the difference Maths around us	Ex 3.5 – 3.7 Pg – 50	

	Unit -4 **MULTIPLICATION** Properties of multiplication Multiplication by multiples of 10,100,1000 Multiplication of 4- digit number by 1- digit number Multiplication of 4- digit numbers by 2- digit numbers Multiplication of 3- and 4- digit numbers by 3- digit numbers Word problems Estimating the products Mental Maths	Ex 4.1 – 4.4 Pg - 62	*Lab activity* – Multiplication by using Russian multiplication method.
May 16th-31st May **June** 1st-30th June	**Summer Vacations**		
July 1-15th July (12 days)	**Unit – 6** **FACTORS AND MULTIPLES** Properties of factors Common factors Multiples Properties of multiples Common multiples Divisibility test Prime and composite numbers Prime factorization Mental Maths Maths around us	Ex 6.1 – 6.5 Pg – 89 Pg - 91	*Lab activity* -To find number divisible by 3 and 5 and decode the puzzle.
16-31st July (14 days)	**Revision of UT 1** **Unit – 8** **GEOMETRY** Point, Line, Ray, Line segment, Plane Open and closed figures Circle , parts of a circle	 Ex 8.1 – 8.2	*UT 1 ACTIVITIES :* **1. Concept (U 1-3)** **2. Mathematical Interpretation (U 1-3)** **3. Mental Maths (U 1-3)** **4. Problem Solving and Procedural Skill (U 1-3)**

August 1-15th August (10 days)	Measuring a line segment Drawing a line segment Perimeter Solids Nets of cube and cuboid Mental Maths Maths around us **Unit – 11** **TIME** Telling time to the exact minute Time in a.m. and p.m. Time duration of an activity The 24- hour clock time Seconds Conversion of one unit to another	Ex 8.3 – 8.5 Pg - 123 Pg– 124 Ex 11.1 - 11.5	*Lab activity* – to understand parts of circle by paper folding.
16-31st August (13 days)	Addition and subtraction of time Calendar Maths around us **Unit – 5** **DIVISION** Division of 4- digit number by a 1 – digit number Division of 2- digit number by a2 – digit number Division of 3- digit number by a 2 – digit number Division of 4- digit number by a 2 – digit number Division by 10, 100 and 1000	Ex 11.6 - 11.7 Pg – 168 Ex 5.1 – 5.3	*Lab activity* – To find day of a week after a certain time.
September 1-15th September (10 days)	**Revision of Half Yearly Exam**		**Assessment** **1. Concept (U 4,6,8 and 11)** **2. Mathematical Interpretation (U 4,6,8 and 11)** **3. Mental Maths (U 4,6,8 and 11)** **4. Problem Solving and Procedural Skill** **(U 4,6,8 and 11)**
16-30th September (13 days)	**Half Yearly Examination**		

October 1-15th October (6 days)	Word problems Estimating the quotient Multiple operations Mental Maths Maths around us	Ex 5.4 – 5.5 Pg – 75 Pg -76	*Lab activity* –Understanding why remainder is less than the divisor using bindis.
16-31st October (11 days)	**Unit 9** **MEASUREMENT** **Measures of length** Conversion of units of length Addition and subtraction of metric units of length **Measures of mass** (or weight) Conversion of units of weight Addition and subtraction of metric units of mass **Measurement of capacity** Conversion of units of capacity	Ex 9.1 – 9.5	*Lab activity* – Measuring distance using paper plane activity.
November 1-15th November (11 days)	Addition and subtraction of metric units of capacity **Revision of UT 2**	Ex 9.6	UT.2 ACTIVITIES : **1. Concept (U 5,9)** **2. Mathematical Interpretation (U 5,9)** **3. Mental Maths (U 5,9)** **4. Problem Solving and Procedural Skill (U 5,9)**
16-30th November (13 days)	**Revision of UT 2** **Unit – 7** **FRACTIONS** Fractions on a number line Equivalent fractions	Ex 7.1 – 7.2	
December 1-15th December (11 days)	Types of fractions Comparison of fractions Addition and subtraction of like fractions Maths around us	Ex 7.3– 7.5 Pg - 108	*Lab activity* – To reinforce the concept of equivalent fractions.

16-31st December (13 days)	**Unit 10** **MONEY** Fundamental operations of money Bill of purchase Maths around us	Ex 10.1-10.2 Pg - 152	
January 1-15th January	Winter Vacations		
16-31st January (14 days)	**Unit 12** **SYMMETRY AND PATTERNS** Symmetry Number patterns Using patterns to make codes Maths around us To do **Unit – 13** **DATA HANDLING** Data Pictograph Bar graph Maths around us	Ex 12.1 – 12.3 Pg - 179 Ex 13.1 – 13.2 Pg - 189	*Lab activity* – Understanding number patterns using number grid. *Lab activity* – Representing data using tally marks.
February 1-15th February (12 days)	**Revision of Final Examination**		<u>Assessment</u> **1. Concept (U 7,10,12 and 13)** **2. Mathematical Interpretation (U 7,10,12 and 13)** **3. Mental Maths (U 7,10,12 and 13)** **4. Problem Solving and Procedural Skill (U 7,10,12 and 13)**
16-28th February (11 days)	**Final Examination**		

Maths Syllabus of Examination (2019-2020)

UT 1	Half Yearly Exam	UT 2	Final Examination
Unit 1 Large numbers	Unit 4 Multiplication	Unit 5 Division	Unit 7 Fractions
Unit 2 Addition	Unit 6 Factors and multiples	Unit 9 Measurement	Unit 10 Money
Unit 3 Subtraction	Unit 8 Geometry		Unit 12 Symmetry & Patterns
	Unit 11 Time		Unit 13 Data Handling