Academic Planner 2017-18

Sub: Mathematics - V

Date	Topic	Assignments / Homework	Activity/Teaching Technique
April 1-15th April (8 days)	**Unit-1** **LARGE NUMBERS** Introducing 7- and 8-digit numbers Face value and place value Numeration system Numbers in expanded form Predecessor and successor Comparing numbers Forming numbers Rounding off numbers Roman numerals Mental Maths Maths around us	Ex 1.1 -1.7 Pg-25 Pg- 26	Lab activity – To write the greatest 8-digit number using eight boxes. Computer game -Roman Bingo Smartboard : Recapitulation Unit 1 - iDaa
16-30th April (12 days)	**Unit-2** **FUNDAMENTAL OPERATIONS** Addition of 6- and 7-digit numbers Subtraction of 6- and 7-digit numbers Multiplication Multiplication by 10 and their multiples Lattice Multiplication Division Bodmas Problem solving skills Estimating operations on numbers Read and interpret Mental Maths Maths around us	Ex 2.1 -2.8 Pg- 48 Pg- 49	Computer game – Sums4u Grandpa Hunch Lab activity – To explore multiplication using Russian Peasant multiplication method. Smartboard : Problem solving Unit 2 – iDaa Lab activity – To explore multiplication using Russian Peasant multiplication method.
May 1-15th May (9 days)	**Unit- 3** **FACTORS AND MULTIPLES** Factors Even and odd number Test of divisibility Prime and composite numbers Highest common factor (HCF) Multiples Lowest common multiple (LCM) Application of HCF and LCM Mental Maths Maths around us	Ex 3.1 – 3.7 Pg- 69 Pg- 70	Smartboard : Practice exercises Unit 3 - iDaa

May 16th-31st May **June** 1st-30th June	Summer Vacations Summer Vacations Summer Vacations Summer Vacations		
July 1-15th July (12 days)	**Unit- 4** **FRACTIONS** Equivalent fractions Mixed fractions Comparing and ordering fractions Reducing fractions to the lowest terms Addition and subtraction of unlike fractions Addition and subtraction of mixed fractions Multiplication of fractions Division of fractions	Ex 4.1 – 4.6	Computer game – Mother ship Snow boarder-2 Granny Crunch Lab activity – To find the factors for given product and identify the common factors to solve the puzzle. Smartboard : Understanding concepts of equivalent fractions Unit 4 - iDaa Computer game – Fraction alley 1 Fraction fishing
16-31st July (13 days)	Word problems Maths around us **Revision of UT 1**	Ex 4.7 Pg - 91	Lab activity – To work practically with multiplication of fractions. UT 1 ACTIVITY : **1. Concept (U 1,2)** **2. Mathematical Interpretation (U 1,2)** **3. Mental Maths (U 1,2)** **4. Problem Solving and Procedural Skill (U 1,2)**
August 1-15th August (10 days)	**UNIT 6** **GEOMETRY** Recalling basic geometrical concepts Plane Relationship between points and lines Angle Measuring angle Constructing angles Types of lines Polygons Circles Maths around us **Unit- 8** **MONEY** The unitary method Profit and loss Finding the cost price and selling price	Ex 6.1 – 6.7 Pg - 138 Ex 8.1 -8.2	Smartboard : Understanding terms of geometry through visualization – iDaa Computer game –Radar love, Protractor jack, Angle angels Lab activity – Making an acute angle & a right angle by paper folding.

16-31st August (14 days)	**Revision of Half Yearly Exams**		**<u>Assessment</u>** **1. Concept (U 3,4,6 and 8)** **2. Mathematical Interpretation (U 3,4,6 and 8)** **3. Mental Maths (U 3,4,6 and 8)** **4. Problem Solving and Procedural Skill (U 3,4,6 and 8)**
September 1-15th September (11 days)	**Half Yearly Exams**		
16-30th September (10 days)	**Unit – 5** **DECIMALS** Decimals Converting fractions into decimals Place value and decimal Converting decimals into fractions Expanded form of decimals Like and unlike decimals Comparing and ordering of decimals	Ex 5.1 – 5.4	Computer games - Fraction alley 2 Coins for boss Smartboard : Chapter building Unit 5 – iDaa Computer games - Jumbo d'hut Guess-imals Deci-candles
October 1-15th October (9 days)	Addition and subtraction of decimals Multiplication of decimals Division of decimals Percentage- an introduction Finding the percentage of a whole Using percentage To do Maths around us	Ex 5.5 – 5.10 Pg- 113 Pg - 115	Lab activity – To understand fractions and percentages through decimals.
16-31st October (11 days)	**Unit 7** **MEASUREMENT** The metric measures Conversion of lower units to higher units Conversion of higher units to lower units Expressing metric units in decimal form Fundamental operations on metric measures	Ex 7.1 – 7.4	

November 1-15th November (11 days)	**Unit – 9** **TIME** Converting bigger units of time into smaller units Converting smaller units of time into bigger units The 24- hour clock Addition and subtraction of time Remembering days Using a calendar	Ex 9.1 – 9.4	Computer game - Gotcha measure Lab activity – Tambola game for conversion of 12-hr format to 24-hr format and vice versa.
16-30th November (13 days)	**Revision of UT 2**		UT 2 ACTIVITIES : **1. Concept (U 5,7)** **2. Mathematical Interpretation (U 5,7)** **3. Mental Maths (U 5,7)** **4. Problem Solving and Procedural Skill (U 5,7)**
December 1-15th December (11 days)	UT 2 Exams		
16-31st December (14 days)	Calculating days Mental Maths Maths around us **Unit - 10** **SYMMETRY** Symmetry Symmetry in plane shapes Reflection and symmetry Tessellation Slides, Flips and turns Patterns in numbers Patterns in sequence of numbers Patterns in multiplication tables To do	Ex- 9.5 Pg- 174 Pg - 176 Ex 10.1– 10.5 Pg – 192	Smartboard : Tessalations - iDaa Computer game –Build a dude Lab activity – Discovering symmetry in decorative objects.
January 1-15th January	**Winter Vacations**		

16-31st January (12 days)	**Unit – 11** **PERIMETER, AREA AND VOLUME** Rectilinear figure Area Area of figures when whole squares are not covered Volume **Unit 12** **DATA HANDLING** Data collection Bar graph	Ex 11.1-11.4 Ex 12.1- 12.2	Computer game –Painter pinto Lab activity – To measure and compare the circumference of coins of different denominations. Smartboard : Introduction of Volume - iDaa Smartboard : Revision of concepts Unit 12 - iDaa Lab activity – Newspaper activity on Bar Graph
February 1-15th February (11 days)	**Revision of Final Exams**		**Assessment** **1. Concept (U 9- 12)** **2. Mathematical Interpretation (U 9- 12)** **3. Mental Maths (U 9- 12)** **4. Problem Solving and Procedural Skill (U 9-12)**
16-28th February (11 days)	**Final Exams**		

Maths Syllabus of Examination (2017-2018)

UT 1	Half Yearly Exams	UT 2	Final Exams
Unit 1 Large numbers	**Unit 3 Factors and Multiples**	**Unit 5 Decimals**	**Unit 9 Time**
Unit 2 Fundamental operations	**Unit 4 Fractions**	**Unit 7 Measurement**	**Unit 10 Symmetry**
	Unit 6 Geometry		**Unit 11 Perimeter, Area and Volume**
	Unit 8 Money		**Unit 12 Data handling**