WEEKLY SYLLABI BREAKDOWN: ACADEMIC SESSION 2020-21

MATHEMATICS: CLASS - VI

Countdown   **Book – 6**

Academic Week	Unit/Chapter & Topic	Personality Grooming Activities
1	**Ice-Breaking at the Session Commencement** [*Introduction with classes, Overview of Textbooks/ Syllabi/ Time Table and General Academic Scheduling*] (Pages 1-7) **Unit 1: Introduction to Sets**, Sets, Exercise 1a, Set Notation, Exercise 1b, Venn Diagrams, Exercise 1c	Introduction of students with his/her classmates, Teachers and School environment Celebration of Spring Day
2	(Pages 7-15) **Unit 1(contd):** Some Special Types of Sets, Exercise 1d, Subsets, Proper Subset, Improper Subset, Super Set, Power Set, Correspondence between Sets, Cardinality of a Set, Symbols used in Sets, Exercise 1e, MCQs 1 **(Pages 16-17) Test Paper 1 (Sets………..Omit)**	Two minute talk by 2-3 students in each class daily revealing their talents and building thei confidence Activity: Ask the students to name different sets from objects present in classroom.
3	(Pages 18-22) **Unit 2: Natural Numbers and Whole Numbers,** Natural Numbers, The Set of Natural Numbers N, Natural Numbers on a Number Ray, Whole Numbers, The Set of Whole Numbers W, Whole Numbers on a Number Ray, Some Rules for Natural and Whole Numbers, Properties of 0 and 1, Exercise 2a	Talk on National Security
4	(Pages 22-30) **Unit 2 (contd):** Operations with Natural and Whole Numbers, Properties of Addition, Subtraction, Multiplication and Division, Decimal System, Face Value and Place Value, Expanded Notations and Exponential Notations, Exercise 2b, MCQs 2	Activity : Ask the students about numbers as mentioned on page 27 (side bar)
5	(Pages 31-38) **Unit 3: Factors and Multiples,** Factors, Tests of Divisibility, Multiples, Exercise 3a	Importance of Labour Day
6	(Pages 38-43) **Unit 3 (contd):** Exercise 3a, Even and Odd Numbers, Prime Numbers, Composite Numbers, The Sieve of Eratosthenes, Exercise 3b, MCQs 3	Celebration of Mother's Day
7	(Pages 44-48) **Unit 4: Factorization: HCF and LCM,** Prime and Composite Factorization, HCF, HCF by Prime Factorization Method	Importance of Ramadan
8	(Pages 49-53) **Unit 4: Factorization: HCF and LCM,** HCF by Long Division Method, Exercise 4a	

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9	(Pages 53-60) **Unit 4 (contd):**LCM, Properties of LCM , LCM by Prime Factorization and Long Division Method,Relation between HCF and LCM of Two Numbers, Exercise 4b, MCQs 4 **(Page 59) Questions 5-10………..Omit**	Teacher will guide the students to develop their personal diaries / observations to record their summer vacation activities (no specific format or layout
10	(Pages 61-71) **Unit 5: Integers,** The Set of integers, Integers on Number Line, Exercise 5a, Operations on Integers: Addition, Subtraction, Multiplication	Sharing the Summer Vacation diariesetc Activity : Complete the magic square as mentioned on page 66
11	(Pages 72-76) **Unit 5(Contd):**Operations on Integers: Division**,** Exercise 5b, MCQs 5 **(Pages 77-78) Revision: Numbers….Omit** (Pages 79-81) **Unit 6: Ratio and Proportion,** Reviewing Fractions, Ratio andProportion	Importance of Eid ulAzha
12	(Pages 82-86) **Unit 6(Contd):** Ratio, Comparing Ratios of Common Terms, Comparing Ratios of Different Terms, Expressing Ratios in the Simplest Terms, Equivalent Ratios, Exercise 6a	Celebration of Independence Day
13	(Pages 86-94) **Unit 6(Contd):** Proportion, Cross Product, Direct Proportion, Inverse Proportion, Exercise 6b, MCQs 6	
14	(Pages 95-97) **Unit 7: Financial Arithmetic,** Day to Day Arithmetic, The Unitary Method, Exercise 7a	
15	(Pages 98-103) **Unit 7(Contd):** Percentage, Converting a Percentage into Fraction, Exercise 7b **(Pages 104-109) Profit and Loss….Omit** **(Pages 109-114) Simple Interest….Omit** **(Pages 114-115) MCQs 7….Omit** **(Pages 116-117) Revision : Arithmetic….Omit**	Defense Day Celebration
16	(Pages 118-127) **Unit 8: Introduction to Algebra,** Sentences and Statements, Transition from Arithmetic to Algebra, Algebraic Expressions, Exercise 8a, Addition and Subtraction, Exercise 8b	Importance of Ashora-e-Moharram
17	(Pages 127-130)**Unit 8(Contd):** Simplification, Grouping Symbols, Exercise 8c,	
18	(Pages 130-132)**Unit 8 (Contd):** Evaluation, Exercise 8d, MCQs 8	Activity : Making Algebraic expressions from daily life problems Celebration of World Teacher's Day
19	**Revision**	

20-21	MID- TERM EXAMINATION (PLAIN AREAS)	
Academic Week	**Unit/Chapter & Topic**	**Personality Grooming Activities**
22	(Pages 133-141) **Unit 9: Linear Equtions,** Algebraic Equations, Linear Algebraic Equations, Create an Equation from a Statement	
23	(Pages 142-143)**Unit 9(Contd):** Exercise 9, MCQs 9 **(Pages 144-145) Revision : Algebra….Omit**	<u>Celebration of Iqbal's Day</u>
24	(Pages 146-157) **Unit 10: Basic Concepts of Geometry,** Shapes and Lines, Points, Lines and Planes, Ray, Straight Line, Tilted Planes, Horizontal Planes, Vertical Plane, Intersecting Plane,Exercise 10, MCQs 10	<u>Importantance of Rabi-ulAwal and Seert-un-Nabi</u>
25	(Pages 158-163) **Unit 11: Construction of Line Segments,** Geometrical Instruments, Construction of a Line Segment, Steps of Construction, Congruence of two Line Segments, Exercise 11a	
26	(Pages 163-164)**Unit 11(Contd):** Bisecting a Line Segment, Drawing a Perpendicular to a Line, Exercise 11b, MCQs 11	
27	(Pages 165-169) **Unit 12: Angles,** Describing an Angle, Comparison of Angles,Exercise 12 (Associated Questions) Types of Angles, Pairs of Angles , Exercise 12 (Associated Questions)	
28	(Pages 169-174)**Unit 12(Contd):** Measurement and Construction of Angles, Bisecting an Angle, Exercise 12 (Associated Questions)Exercise 12, MCQs12	
29	(Pages 175-178) **Unit 13: Triangles,** Types of Triangles, Exercise 13a	<u>National Resolve Day to promote Education</u>
30	(Pages 178-180) **Unit 13 (Contd):** Interior and Exterior Angles of a Triangle, Basic Properties of Triangle, Exercise 13b (Associated Questions)	<u>Quaid's Day Celebration</u>
31	(Pages 180-184) **Unit 13 (Contd):**Triangle Inequality Property, Properties of Isosceles Triangles, Exercise 13b, MCQs 13 (Pages 185-186) **Unit 14: Mensuration : Area,** Units of Area, Units of Length	Activity : solving question given on page 180 (Side Bar)
32	(Pages 186-188) **Unit 14 (Contd) :** Measurement of Area using Squared Paper, Exercise 14a	<u>Talk on Discipline,Hardwork and Motivation</u>
33	(Pages 188-190) **Unit 14 (Contd) :**Measurement of Area using Formulae, Exercise 14b **(Pages 190-193), …………….……………….Omit**	
34	(Pages 194-200) **Unit 15: Mensuration : Volume,** Volume of a Cube, Volume of a Cuboid, Exercise 15 (Associated Questions)	

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35	(Pages 200-203) **Unit 15 (Contd):** Measuring Surface Areas of Cubes and Cuboids, Exercise 15, MCQs 15 **(Pages 204-205) ………………………….Omit**	Kashmir Day
36	(Pages 206-208) **Unit 16: Information Handling,** Pictorial presentation of Numerical Data, Types of Data, Graphs, Pictographs, Exercise 16 (Associated Questions)	
Academic Week	**Unit/Chapter & Topic**	**Personality Grooming Activities**
37	(Pages 208-215) **Unit 16(Contd):** Bar Graphs, Horizontal and Vertical Bar Graphs, Reading a Bar Graph, Exercise 16, MCQs 16 **(Pages 216-217) Test Paper 3….Omit**	
38	**Revision (Preferably through conceptual activities where possible)**	Farewell party
39 - 40	**ANNUAL EXAM (PLAIN AREAS)**	

Note: Teachers are strongly recommended to collect "**Guidelines for Teachers**" from the offices of the Principlas/VP/HMs for an effective utilization of the syllabi breakdown.Examinationpepers will be set according to the said guidelines.