WEEKLY SYLLABI BREAKDOWN : ACADEMIC SESSION 2020-21

MATHEMATICS: CLASS - VII

Countdown   **Book- 7**

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 2 - 5*) Recapitulation….An overview is to be given only. This part is non examinable.* (Pages 6-12) **Unit 1: Operation of Sets**, Basic Concepts of Sets, Set representation and Types, Cardinal of a Set, Equivalent Sets, Operations on Sets, Universal Set, Complement of a Set, Exercise 1 (Associated Topics)	Introduction of students with his/her classmates, Teachers and School environment Spring Day
2	(Pages 12-18) **Unit 1(Contd):** Venn Diagrams, Properties of Sets, Exercise 1, MCQs 1 (Pages 19-22) **Unit 2: Rational Numbers**, Rational Numbers on the Number Line, Exercise 2a.	Two minute talk by 2-3 children in each class daily revealing their talents and building their confidence
3	(Pages 23-33) **Unit 2 (Contd):** Standard Form, Ordering Rational Numbers, Comparing Rational Numbers, Reciprocal of a Rational Number, Exercise 2b, Operations on Rational Numbers, Exercise 2c, MCQs 2	Talk on National Security
4	(Pages 34-38) **Unit 3: Decimal Numbers**, Decimal Representation, Conversion of Fractions into Decimal Numbers, Conversion of Percentages into Decimal Numbers, Conversion of decimal Numbers into Percentages, Conversion of Decimal Numbers into Fractions, Exercise 3 (Associated Questions)	Importance of Ramadan Activity: Converting the fractions to decimals as mentioned on page 40 (Side Bar)
5	(Pages 38-46) **Unit 3 (Contd):** Terminating and Non-Terminating Decimals, Approximation and Rounding Off, Exercise 3, MCQs 3	Importance of Labour Day
6	(Pages 47-56) **Unit 4: Squares and Square Roots,** Perfect Squares, Square Roots of Positive Integers, Determination of Positive Square Roots by Prime Factors, Exercise 4a	Celebration of Mother's Day
7	(Pages 56-60) **Unit 4 (Contd):** Determination of Positive Square Roots by Division, Exercise 4b, MCQs 4 (Pages 61-64) **Unit 5: Exponents,** Exponential Notations and Rational Numbers, Reciprocals with Positive Integral Exponents, Reciprocals with Negative Integral Exponents, Exercise 5 (Associated Topics)	

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8	(Pages 65-70) **Unit 5 (Contd) :** Laws of Exponents, Product Law, Quotient Law, Power Law, Zero Exponent, Exercise 5, M CQs 5	Teacher will guide the students to develop their personal diaries/scrap book/observations to record their summer vacation activities (no specific format or layout) Importance of Eid ul Fitar
9	**(Page 71) Revision : Numbers..........Omit** (Pages72-78) **Unit 6 : Direct and Inverse Variation**, Direct Variation, Inverse Variation, Exercise 6 (Associated Problems) **REVISION OF ALL CORE CONCEPTS**	
10	(Pages79-85) **Unit 6 (Contd) :** Continued Ratio, Speed, Time and Distance,Using Proportions, Dividing in Given Ratio, Exercise 6, MCQs 6	Sharing the Summer Vacation diaries etc.
11	(Pages 86-97) **Unit 7: Financial Arithmetic**, Examples (Profit and Profit per Cent, Loss and Loss per Cent), Exercise 7a, Simple Discount,Discount, Profit and Loss Percent, Successive Discounts, Overheads, Exercise 7b	Celebration of Independence Day
12	(Pages 98-105) **Unit 7 (Contd):** Property Tax, General Sales Tax, Exercise 7c,Simple Interest, Zakat, Ushr, Exercise 7d, MCQs 7 **(Pages 106-107) Revision : Arithmetic, Test Paper 1....Omit**	Activity: Collecting discount vouchers /cards /coupons and then estimating discounted price.
13	(Pages 108-113) **Unit 8: Algebraic Expressions**, Exponents, Variables, Coefficients and Constants, Algebraic Expressions, Polynomials, Arranging Polynomials in Increasing and Decreasing Order, Like and Unlike Terms, Addition and Subtraction of Algebraic Expressions, Exercise 8a	
14	(Pages 113-119) **Unit 8 (contd):** Multiplication of Algebraic Expressions, Division of Algebraic Expressions, Exercise 8b, MCQs 8	Defence Day Celebration Importance of Ashora-e-Moharram
15	(Pages 120-126) **Unit 9: Algebraic Identities**, Square of the Sum of Two Terms, Square of the Difference of Two Terms, Product of the Sum and Difference of Two Terms, Exercise 9, MCQs 9	Importance of Ashora-e-Moharram
16	(Pages 127-129) **Unit 10: Factorization of Algebraic Expressions,** Factorization by Using Algebraic Identities, Exercise 10a	
17	(Pages 129-132) **Unit 10 (Contd) :** Factorization by the Differernce of Two Squares, Factorization by Making Groups, Exercise 10b, MCQs 10	
18	(Pages 133-138) **Unit 11: Simple Equations,** Equation and Identity, Unknown Quantity and Root, Exercise 11a	Celebration of World Teacher's Day

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19	(Pages 139-141) **Unit 11 (Contd) :** Problems on Simple Equations, Exercise 11b, MCQs 11 **(Page 141) Exercise 11b Questions11-16.......... Omit** **(Pages 142-143) Revision: Algebra…………..........Omit** **(Pages 144-145) Test Paper 2………...................Omit** **REVISION OF ALL CORE CONCEPTS**	Celebration of World Teacher's Day
20-21	**MID – TERM EXAM (PLAIN AREAS)**	
22	(Pages 146-154) **Unit 12: Lines and Angles,** Perpendicular Lines, Construction of Perpendicular Lines, Parallel Lines, Transversal, Properties of Parallel Lines, Construction of Parallel Lines, Exercise 12a	Importance of Rabi-ul Awal and Seert-un-Nabi
23	(Pages 155-158) **Unit 12 (Contd):**Angles, Angles in a Triangle, Exercise 12b, MCQs 12	
24	(Pages 159-166) **Unit 13:Geometrical Constructions**, Bisecting a Line Segment, Bisecting an Angle, Constructing Perpendicular Lines, Constructing Angles, Exercise 13a	Celebrations of Iqbal's Day
25	(Pages 167-173) **Unit 13 (Contd):**Constructing Triangles, Exercise 13b, MCQs 13	
26	(Pages 174-180) **Unit 14: Circles**Compasses, Elements of a Circle, Interior and Exterior of a Circle, Constructing a Circle, Constructing a Semi Circle, Concentric Circles, Exercise 14a	
27	(Pages 180-184) **Unit 14 (Contd):** Properties of Circle, Exercise 14b, MCQs 14	
28	(Pages 185-189) **Unit 15: Congruence and Similarity,**Congruency, Congruent Figures, Similarity, Exercise 15 (Associated Questions)	
29	(Pages 189-195) **Unit 15 (Contd) :** Congruent Triangles, Properties of Congruent Triangles, Exercise 15, MCQs 15	National Resolve Day to Promote Education
30	(Pages 196-201) **Unit 16: Quadrilaterls,** Quadrilaterals, Parallelograms, Construction of a Parallelogram, Exercise 16 (Associated Questions)	Celebration of Quaid's Day
31	(Pages 202-207) **Unit 16 (Contd):** Rectangle, Rhombus, Property of rhombus, Exercise 16, MCQs 16 **Pages (208-211) Revision: Geometry, Test Paper 3.………Omit**	
32	(Pages 212-221) **Unit 17: Perimeter and Area of Geometrical Figures**, Perimeter, Perimeter of Quadrilaterals, Area, Area of Square, Rectangle, Parallelogram, Triangle, Trapezium, Rhombus, Numerical Examples, Exercise 17a	Talk on Discipline, Hard work and Motivation

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33	(Pages 222-226) **Unit 17 (Contd) :** Tessellations, Circumference of a Circle, Area of a Circular Region, Exercise 17b, MCQs 17	Project: Find the perimeter of different shapes at home
34	(Pages 227-232) **Unit 18: Volume and Surface Area**, Volume and Surface Area, Three Dimensional Objects, Volume and Surface Area of Cubeand Cuboid, Units of Measurement, Standard Units of Volume, Exercise 18a	
35	(Pages 233-235) **Unit 18 (Contd) :** Right Circular Cylinder, Surface Area of a Cylinder, Volume of a Cylinder, Exercise 18b, MCQs 18 **(Pages 236-239) Revision: Mensuration, Test Paper 4.......Omit**	Kashmir Day
36	(Pages 240-243) **Unit 19: Information Handling,** Data Presentation, Ungrouped and Grouped Data, Exercise 19 (Associated Questions)	
37	(Pages 243-250) **Unit 19 (Contd) :** Bar Graphs, Pie Charts, Exercise 19, MCQs 19 **(Pages 251-252) Test Paper 5.......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.Examination pepers will be set according to the said guidelines.