



MAHARAJA AGARSAIN PUBLIC SCHOOL
a Cambridge International School
Ashok Vihar, Delhi

CLASS - VII
SUBJECT: MATHEMATICS
SESSION: 2023-24

Book : Mathematics textbook for class VII

DURATION	SYLLABUS COVERED	SYLLABUS TESTED	SUBJECT ENRICHMENT	LEARNING OUTCOMES	RESOURCES	SDG
PT1 (JULY-AUG)	Chapter 1 – Integers	Chapter 1 – Integers Chapter 2 – Fractions and Decimals Chapter 3 – Data Handling PT1 date – 7 August	Activity : Integer multiplication maze	The learner— • multiplies/divides two integers	https://www.liveworksheets.com/worksheets/en/Math/Maths/Adding_and_Subtracting_Integers_ix2837007mn	GOAL 13 : Climate action
	Chapter 2 – Fractions and Decimals	Tentative syllabus completion – 10 July	Activity : To represent the following products of decimal numbers on a square by drawing horizontal/vertical lines and shading i) 0.3×0.7	• interprets the division and multiplication of fractions. • uses algorithms to	https://www.youtube.com/watch?v=Y61PtK4x2xs	GOAL 8 : Decent Work and Economic Growth

			ii) 0.5 x 0.5	multiply and divide fractions/decimals		
	Chapter 3 – Data Handling		Activity : To compare the marks obtained in all the subjects by a student in the first and second term examination by drawing a bar graph	<ul style="list-style-type: none"> • finds various representative values for simple data from her/his daily life contexts like mean, median and mode • interprets data using bar graph such as consumption of electricity is more in winters than summer, runs scored by a team in first 10 overs etc. • recognises variability in real life situation such as, variations in the height of students in her class and uncertainty in happening of events like throwing a coin 	https://www.liveworksheets.com/hl1887027ya	GOAL 12 : Responsible consumption and production
	Chapter 4 – Simple Equations		Activity : Equations collage	• represents daily life situations in the form of a simple equation and solves it	https://wheeldicide.com/index.php?c1=2x+-++6%3D+14%2C+find+x&c2=If+3+is+add	GOAL 5 : Gender Equality

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HALF YEARLY (SEP)	Chapter 5 – Lines and Angles	Chapter 1 – Integers Chapter 2 – Fractions and Decimals Chapter 3 – Data Handling Chapter 4 – Simple Equations Chapter 5 – Lines and Angles Chapter 7 – Comparing Quantities Chapter 8 – Rational Numbers Half yearly exam date – 13 September to 27 September Tentative syllabus completion – 30	Activity : (a) Identify the conditions under which given pair of angles are complimentary. (b) Identify the conditions under which given pair of angles are supplementary Activity : To verify that if two lines intersect at a point, then each pair of vertically opposite angles are equal by paper cutting and pasting. Activity : To verify that if two parallel lines are cut by a transversal, then i) each pair of corresponding angles are equal ii) each pair of alternate interior angles are equal	<ul style="list-style-type: none"> classifies pairs of angles based on their properties as linear, supplementary, complementary, adjacent and vertically opposite and finds value of the one when the other is given. verifies the properties of various pairs of angles formed when a transversal cuts two lines 	https://www.youtube.com/watch?v=6RMN5Pf1fHU	GOAL 10 : Reduced Inequalities

	Chapter 7 – Comparing Quantities	August	Activity : The Food Pyramid	<ul style="list-style-type: none"> calculates profit/loss percent and rate percent in simple interest 	https://www.liveworksheets.com/jq1917951ar	GOAL 9 : Industry , Innovation and Infrastructure
	Chapter 8 – Rational Numbers		Activity : Find the route	<ul style="list-style-type: none"> solves problems related to daily life situations involving rational numbers distinguishes quantities that are in proportion. For example, tells that 15, 45,40, 120 are in proportion solves problems related to conversion of percentage to fraction and decimal and vice versa 	https://youtu.be/sy0YSJHlvtk	GOAL 3 : Good Health and Well being
PT2 (NOV-DEC)	Chapter 9 - Perimeter and Area	Chapter 9 - Perimeter and Area Chapter 10 – Algebraic Expressions Chapter 13 - Visualising Solid Shapes PT2 date – 4 December Tentative syllabus completion – 25	Activity : To find the area of circle	<ul style="list-style-type: none"> finds out approximate area of closed shapes by using unit square grid/ graph sheet calculates areas of the regions enclosed in a rectangle and a square 	https://www.youtube.com/watch?v=hm17IVaor0Q	GOAL 15 : Life on land

		November				
	Chapter 10 – Algebraic Expressions		Activity : Colour the Triangle	• adds/subtracts algebraic expressions	https://www.youtube.com/watch?v=Jw-toLAUqPg	GOAL 1 : No Poverty
	Chapter 13 - Visualising Solid Shapes		Activity : To draw a cuboid of dimension 7 cm, 4cm and 2 cm on an isometric dot paper. Also draw its oblique sketch	• understand 3 D shapes identification, faces, edges and vertices and building 3 D shapes	https://www.liveworksheets.com/worksheet/en/Math/Shapes/Shape_Nets_qg2790367vg	GOAL 11 : Sustainable Cities and Communities
FINAL TERM (FEB)	Chapter 6 – The Triangle and its Properties	Chapter 2 – Fractions and Decimals Chapter 6 – The Triangle and its Properties Chapter 9 - Perimeter and Area Chapter 10 – Algebraic Expressions Chapter 11 – Exponents and Powers Chapter 12 - Symmetry Chapter 13 - Visualising Solid Shapes Final exam date – From 15 February	Activity : (a) To get a median of a triangle from any vertex, by paper folding. To verify that in a triangle, medians pass through a common point, by paper folding. (b) To get an altitude of a triangle from any vertex, by paper folding. To verify that in a triangle altitudes pass through a common point, by paper folding. Activity : To verify that the sum of all interior angles of a triangle is 180° by paper cutting and pasting.	• finds unknown angle of a triangle when its two angles are known	https://www.youtube.com/watch?v=GgPOHMi-VxI https://www.youtube.com/watch?v=jnxCLjgVY8Q https://www.youtube.com/watch?v=dl6lw1X4Nqo	GOAL 2 : Zero Hunger

		Tentative syllabus completion – 20 January	<p>Activity : To verify that a triangle can be drawn only if the sum of lengths of any two sides is greater than the third side. Set 1: 5 cm, 7 cm, 11 cm Set 2: 5 cm, 7 cm, 14 cm</p> <p>Activity : To verify Pythagoras theorem using a squared paper by shading the squares.</p>			
	Chapter 11 – Exponents and Powers		<p>Activity : Crossword Puzzle</p>	<ul style="list-style-type: none"> • uses exponential form of numbers to simplify problems involving multiplication and division of large numbers 	http://www.math-play.com/Powers-Concentration-Game/powers-concentration.html5.html	GOAL 7 : Affordable and Clean energy
	Chapter 12 - Symmetry		<p>Activity : Symmetrical design</p>	<ul style="list-style-type: none"> • Recognising 2D shapes having line symmetry and rotational symmetry. • Finding the order of rotation and angle of rotation in 2D shapes. 	https://www.youtube.com/watch?v=s4tS-ZmpJfw&t=241s	GOAL 14 : Life below Water

- Math week – 3 to 17 May
- Presentation week – 19 to 26 July
- Research Based Project topic – Good Health and Wellbeing
- Integrated Project Topic – G 20
- The above mentioned dates are tentative.