

CLASS-VII MATHEMATICS

Month	Chapters	Learning Outcomes AFTER THE COMPLETION OF THE CHAPTER STUDENTS ARE ABLE TO:	Assessment /Activity
April	CH-1 INTEGERS	<ul style="list-style-type: none"> *<u>UNDERSTAND</u> INTEGERS. *<u>PERFORM</u> OPERATIONS ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION ON INTEGERS. * <u>SOLVE</u> WORD PROBLEMS BASED ON INTEGERS 	<p>ASSESSMENT: PT-I AND HALF YEARLY EXAM</p> <p>ACTIVITY:- ADDITION AND SUBTRACTION OF INTEGERS ON NUMBER LINE THROUGH PHYSICAL ACTIVITY BY DRAWING NUMBER LINES ON FLOOR</p>
	CH-2 FRACTIONS AND DECIMALS	<ul style="list-style-type: none"> *<u>PERFORM</u> MULTIPLICATION AND DIVISION OF FRACTION/DECIMAL . * <u>CONVERSION</u> OF FRACTION INTO DECIMAL AND VICE-VERSA . * <u>SOLVE</u> WORD PROBLEMS RELATED TO FRACTIONS AND DECIMALS . 	<p>ASSESSMENT: PT-I AND HALF YEARLY EXAM</p> <p>PAPER CUTTING AND PASTING ACTIVITY SHOWING MULTIPLICATION AND DIVISION OF FRACTION AND DECIMAL</p>
May	CH-4 SIMPLE EQUATIONS	<ul style="list-style-type: none"> * <u>UNDERSTAND</u> EQUATIONS *<u>FIND</u> THE SOLUTION OF EQUATION . * <u>FRAME</u> ALGEBRAIC EQUATIONS TO SOLVE WORD PROBLEMS . 	<p>ASSESSMENT: HALF YEARLY</p> <p>ACTIVITY-VERIFY PAIR OF CORRESPONDING ANGLES AND PAIR OF ALTERNATE INTERIOR ANGLES BY ACTUALLY MEASURING THE ANGLES</p>
June	<u>SUMMER VACATIONS</u>		<p>SUBJECT ENRICHMENT ACTIVITY - SEA - 1 (JUNE)- *<u>FINDING</u> LOGICAL MATHS TRICKS FOR CALCULATING MULTIPLICATION AND DIVISION QUICKLY</p>

Month	Chapters	Learning Outcomes AFTER THE COMPLETION OF THE CHAPTER STUDENTS ARE ABLE TO:	Assessment /Activity
July	CH-5 LINES AND ANGLES	<ul style="list-style-type: none"> * <u>UNDERSTAND</u> THE DEFINITION OF LINE ,LINE-SEGMENT , ANGLES * <u>EXPLAIN</u> SPECIAL PAIRS OF ANGLES . *<u>FIND</u> THE DIFFERENT ANGLES FORMED BY TRANSVERSAL OF PARALLEL LINES 	LAB ACTIVITY- VERIFY PAIR OF CORRESPONDING ANGLES AND PAIR OF ALTERNATE INTERIOR ANGLES BY ACTUALLY MEASURING THE ANGLES
	CH – 8 COMPARING QUANTITIES	<ul style="list-style-type: none"> * <u>EXPLAIN</u> THE CONCEPT OF RATIO , PROPORTION AND PERCENTAGE . *<u>COMPARE</u> RATIO AND PROPORTIONS * <u>FIND</u> THE SIMPLEST FORM OF RATIO * <u>SOLVE</u> WORD PROBLEMS USING UNITARY METHOD . 	<u>ASSESSMENT: HALF YEARLY EXAM</u> ACTIVITY: CASE STUDY BASED ASSIGNMENT

Month	Chapters	Learning Outcomes AFTER THE COMPLETION OF THE CHAPTER STUDENTS ARE ABLE TO:	Assessment /Activity
Aug	CH-9 RATIONAL NUMBERS	<ul style="list-style-type: none"> * <u>DEFINE</u> RATIONAL NUMBERS. * <u>EXPRESS AND DIFFERENTIATE</u> POSITIVE AND NEGATIVE RATIONAL NUMBERS . * <u>REPRESENT</u> RATIONAL NUMBERS ON NUMBER LINE * <u>PERFORM</u> OPERATIONS ON RATIONAL NUMBERS . 	ASSESSMENT: HALF YEARLY EXAM ACTIVITY-SHOWING RATIONAL NUMBER ON NUMBER LINE
	CH -3 DATA HANDLING	<ul style="list-style-type: none"> *<u>FIND</u> MEAN,RANGE , MODE MEDIAN * <u>DRAW</u> BAR GRAPHS AND DOUBLE BAR GRAPHS . * <u>FIND</u> PROBABILITY IN DICE AND COIN RELATED SUMS . 	ASSESSMENT: HALF YEARLY EXAM ACTIVITY-COLLECTING HEIGHTS IN CM OF STUDENTS OF THE CLASS AND FINDING MEAN HEIGHT IN CENTIMETRES ACTIVITY-THROW A DICE TWENTY TIMES AND RECORD THE DATA.
	CH- 10 PRACTICAL GEOMETRY	<ul style="list-style-type: none"> * <u>CONSTRUCT</u> A PARALLEL LINE AT A GIVEN POINT . * <u>CONSTRUCT</u> TRIANGLES USING DIFFERENT PROPERTIES OF TRIANGLES 	ASSESSMENT: ANNUAL EXAM ACTIVITY: MAKE A SCENERY USING GEOMETRICAL INSTRUMENTS
Sept	HALF YEARLY- CHAPTER 1,2,3,4,5,8,9		

Month	Chapters	Learning Outcomes AFTER THE COMPLETION OF THE CHAPTER STUDENTS ARE ABLE TO:	Assessment /Activity
Oct	CH – 6 TRIANGLES CH-7 CONGRUENCY OF TRIANGLES	<ul style="list-style-type: none"> * <u>RECALL</u> THE DIFFERENT PROPERTIES OF TRIANGLES. * <u>FIND</u> THE ANGLES OF TRIANGLES USING ANGLE SUM PROPERTY AND EXTERIOR ANGLE PROPERTY OF TRIANGLES. * <u>DEFINE</u> AND <u>APPLY</u> THE PYTHAGORAS THEOREM FOR RIGHT-ANGLED TRIANGLES . * <u>DEFINE</u> THE MEANING OF CONGRUENCY OF ANY GEOMETRICAL SHAPE . * <u>DEFINE</u> THE CONDITIONS OF CONGRUENCY OF TRIANGLES . 	ASSESSMENT: PT-II AND ANNUAL EXAM <u>ACTIVITY-</u> <ul style="list-style-type: none"> • TO VERIFY THAT EXTERIOR ANGLES OF A TRIANGLE IS EQUAL TO SUM OF INTERIOR OPPOSITE ANGLES USING PAPER CUTTINGS • TO MAKE YOGA POSTURE REPRESENTING TRIANGLES

Month	Chapters	Learning Outcomes AFTER THE COMPLETION OF THE CHAPTER STUDENTS ARE ABLE TO:	Assessment /Activity
Nov	CH – 12 ALGEBRAIC EXPRESSIONS	<ul style="list-style-type: none"> * <u>GENERATE</u> ALGEBRAIC EXPRESSIONS * <u>IDENTIFY</u> CONSTANTS , COEFFICIENTS AND POWERS OF AN EXPRESSION . * <u>PERFORM</u> ADDITION AND SUBTRACTION OF ALGEBRAIC EXPRESSIONS. * <u>FIND</u> THE VALUE OF AN ALGEBRAIC EXPRESSION . 	ASSESSMENT: PT-II AND ANNUAL EXAM ACTIVITY:ASSIGNMENT
	CH-11 PERIMETER AND AREA	<ul style="list-style-type: none"> * <u>CALCULATE</u> THE AREA AND PERIMETER OF SQUARES, RECTANGLES, TRIANGLES AND PARALLELOGRAMS. * <u>CALCULATE</u> CIRCUMFERENCE AND AREA OF A CIRCLE . 	ASSESSMENT: PT-II AND ANNUAL EXAM ACTIVITY-TO FIND THE AREA AND PERIMETER OF 2D SHAPES USING GEOBOARD COMPARING THE SAME WITH THE AREA OBTAINING USING FORMULA.
December and January	CH – 13 EXPONENTS AND POWERS	<ul style="list-style-type: none"> * <u>VISUALIZE</u> EXPONENTS . * <u>CONVERT</u> INTO POWER NOTATION . * <u>DEFINE</u> AND APPLY THE LAWS OF EXPONENTS . * <u>EXPRESS</u> IN SCIENTIFIC NOTATION 	ASSESSMENT: ANNUAL EXAM ACTIVITY:MAKE A MODEL REPRESENTING LAWS OF EXPONENTS
	CH-14 SYMMETRY	<ul style="list-style-type: none"> * <u>RECOGNIZE</u> AND DRAW LINES OF SYMMETRY OF DIFFERENT SHAPES AND ALPHABETS 	ASSESSMENT: ANNUAL EXAM ACTIVITY:TO EXPLORE THE SYMMETRICAL AND NON SYMMETRICAL BUILDINGS IN YOUR NEARBY AREA

<p>December and January</p>	<p>CH-15 VISUALISING SOLID SHAPES</p>	<p>. * <u>DRAW</u> 3-D FIGURES IN 2-D SHOWING HIDDEN FACES . * <u>IDENTIFY</u> AND COUNT OF VERTICES , EDGES,FACES,NETS (FOR CUBES, CUBOIDS, CYLINDERS AND CONES).</p>	<p>ASSESSMENT: ANNUAL EXAM ACTIVITY: RELATED TO 3 – D SHAPES PREPARE A EXAMPLAR CHART</p>
<p>February</p>	<p>Revision</p>		
<p>March</p>	<p>ANNUAL EXAM – CHAPTER -6,7,8,9,10,11,12,13,14,15</p>		

