

ACADEMIC PLAN (SESSION : 2016-17)

CLASS : VI

SUBJECT : MATHEMATICS

SUMMATIVE ASSESSMENT - I

Ch-1: Natural Numbers and Whole Numbers
Ch-2: Factors and Multiples
Ch-3: Integers
Ch-8: Basic Geometrical Concepts
Ch-10: Angles
Ch-13: Circles
Ch-15: Perimeter and Area
Ch-16: Statistics

SUMMATIVE ASSESSMENT- II

Ch-4: Ratio, Proportion and Unitary Method
Ch-5: Percentage and its Applications
Ch-6: Introduction to Algebra
Ch-7: Linear Equations
Ch-9: Line Segments
Ch-11: Pairs of Lines and Transversal
Ch-12: Triangles
Ch-14: Constructions
* **Integers** will be revised in SA-II.

SCHEDULE OF FORMATIVE ASSESSMENT AND UNIT TEST

SYLLABUS FOR UNIT TEST -I

Ch-1 Natural Numbers and Whole Numbers

Ch-8 Basic Geometrical Concepts

SYLLABUS FOR UNIT TEST-II

Ch-2 Factors and Multiples

Ch-15 Perimeter and Area

SYLLABUS FOR UNIT TEST -III

Ch-4 Ratio , Proportion and Unitary Method

Ch-11 Pairs of lines and Transversal

SYLLABUS FOR UNIT TEST-IV

Ch-5 Percentage and its Applications

Ch-7 Linear Equations

FORMATIVE ASSESSMENT -I

UNIT TEST (20)

FORMATIVE ASSESSMENT -II

UNIT TEST (20)

PROJECT (H.H.W.)(10)

CROSSWORD PUZZLE (Factors and Multiples) (10)

FORMATIVE ASSESSMENT -III

UNIT TEST (20)

MCQ (10)

WORKSHEET (Ratio, proportion and unitary method) (10)

FORMATIVE ASSESSMENT -II

UNIT TEST (20)

H.W. and ASSIGNMENTS (20)

Assessment Month	Topics & No. of days	Learning Objectives Students will be able to	HW	Assignment Or Worksheet	Activities to be taken/Assessed*
FA-I April 20	Ch-1: Natural Numbers and Whole Numbers (15)	i) learn about Roman Numerals , Natural Numbers and Whole Numbers ii) perform operations on whole numbers iii) Estimate sum , difference and product. iv) Simplify of numerical expressions using BDMAS	4	1(A)	Recapitulation worksheet for the concepts studied in Class V to be done. 2 Class –tests
	Ch-8: Basic Geometrical Concepts (5)	i) define and recognize point , line, ray, line segment ii) define and identify concurrent lines, parallel lines etc.	1	1(W)	
May 16	Ch-2: Factors and Multiples (13)	i) write Factors and Multiples of given numbers. ii) recognize Prime and Composite numbers, twin primes and co – prime numbers. iii) find HCF , LCM , Prime factorisation and test the divisibility by 2, 3, 4, 5, 10 ,11 etc.	5	1(A)	Recapitulation worksheet for the concepts studied in Class V to be given. (HCF , LCM and Prime factorisation) 2 class –tests
	Ch-16: Statistics(3)	i) read bar graphs and pictographs. ii) draw bar graphs	1		*Project
	Syllabus for Unit Test-I Natural Numbers and Whole Numbers Basic Geometrical Concepts				

FA-II July 21	Ch-15: Perimeter and Area (13) Ch-13: Circles(8)	i)find the perimeter and area of a rectangle and a square. ii)find length or breadth when area is given. i)define elements of circle, ii)use relation between radius and diameter, circumference. iii)Construct circles when radius or diameter is given.	2 1	1(A) 1(W)	* Crossword Puzzle on factors and multiples 1 Class test
Aug 22	Ch-3: Integers (16) Ch-10: Angles (6)	i)Know the concept and need for integers, ii)represent integers on a number line. iii)apply the basic operations on integers. i)define and identify types of angles, ii) identify interior and exterior of an angle. iii) find complement and supplement of angle.	5 2	1 (A) 1(W)	2 Class -tests Blackboard revision of types of angles.
	<i>Syllabus for Unit Test-II</i> Factors and Multiples Perimeter and Area				
Sep	REVISION FOR SA-I				

<p>FA-III Oct 17</p>	<p>Ch-4: Ratio, Proportion and Unitary Method (10)</p> <p>Ch-11: Pairs of Lines and Transversal (7)</p>	<p>i) compare two quantities by division ii)use the concept of ratio and proportion iii)solve problems using unitary method.</p> <p>i) identify angles made by a transversal with two lines like exterior and interior angles, alternate angles, corresponding angles. ii)learn about parallel lines and identify them in given figure.</p>	<p>4</p> <p>1</p>	<p>1(A)</p> <p>1 (W)</p>	<p>*Worksheet based on Ratio , proportion and unitary method 1 Class-test</p> <p>* MCQ</p>
<p>Nov 21</p>	<p>Ch-5: Percentage and its Applications (9)</p> <p>Ch-6 Introduction to Algebra (10)</p> <p>Ch-9: Line Segments (2)</p>	<p>i) apply the concept of percentage to determine Profit and Loss , Profit% and Loss%</p> <p>ii) calculate simple Interest and amount.</p> <p>i) define literal numbers, constant, coefficients, variables and algebraic expressions ii)identify above quantities in given algebraic expression. iii) perform addition and subtraction on algebraic expression</p> <p>i) construct line segment of given length and label it</p>	<p>3</p> <p>4</p> <p>1</p>	<p>1(A)</p> <p>1(A)</p>	<p>Recapitulation worksheet to be done. 2 class-test</p> <p>1 class-test</p>
	<p><i>Syllabus for Unit Test-III</i> Ratio , proporty and unitary method Pairs of lines and transversal</p>				

FA IV Dec 22	Ch-7: Linear Equations (9)	i)define a linear equation , ii)convert a statement to a linear equation iii)Solve and check a linear equation.	3	1(A)	1 class-test
	Ch-12: Triangles (9)	i) define and classify types of triangles according to sides and according to angles. ii)identify Interior and exterior region of a triangle. iii)identify vertex opposite to given side and vice versa. iv)apply angle sum property and exterior angle property of triangle.	2	1(A)	Recapitulation worksheet for the concepts studied in Class V to be done.
	Ch-3 Integers (To be revised in SA-II) (4)			1 (A)	(Revision Assignment to be given)
Jan 12	Ch-14: Constructions (12)	i)construct various angles, ii)perpendicular bisector of line segment iii)construct line parallel to given line.	2	1 (W)	*. H.W. / C.W. Notebooks and Assignments will be assessed.
	<i>Syllabus for Unit Test-IV</i> Percentage and its Applications Linear Equations				

NOTE: Students have to maintain two notebooks i) one class work note book ii) one home work and assignment note book.

*Separate worksheets for remedial students will be given

*Weekly class –test will be conducted.

* Assignments will include HOTS and value based questions for gifted students.