The Orchid School
Baner
Syllabus Overview 2015- 2016
Std VI
Subject : Mathematics

Month	Lesson / Content / Name of the Book	Expected Learning Objective	Activities/FAs Planned
MARCH -APRIL			
	Lesson : numbers **Conten**t:Revised big numbers **Lesson** :Whole numbers numbers **Content**:natural numbers,Representation of whole numbers on the number line,Properties of addition.	Students will be able to recognise big and small numbers . Students states the property of addition of whole numbers.	Exercise questions
	Lesson :Whole numbers **Content:**Properties of subtraction,multiplication.	Students states the closure property,commutative Property ,assosiative property,distributive property and identity property in addition,subtraction,multiplication of whole numbers	Exercise questions
	Lesson : Whole numbers **Content**:Properties of division	Students states the closure property,commutative Property ,assosiative property,distributive property and identity property in division of whole numbers	Activity to prepare poster "Research on 0"

JUNE			
	Playing with numbers :Prime and composite numbers,Test for divisiblity **Basic geometrical Ideas:**Point, Line,Line Segments and Rays.	**1**)Students will be able to perform divisiblity test 11 and 13. **2)** Students will be able to prime factorise bigger numbers 3)Students will be able to define and give examples on point,line,ray and segments.	Math Lab Activity : solving a puzzle based on divisibility tests Creating polygons with chords.
	Basic geometrical Ideas: Curves and Polygons Angles, Triangles and Quadrilaterals,Circles	**1)Students will be able to measure and compare angle** **2)Will be able to identify linear and curvilinear boundaries.**	**Design a map of Your neighbourhood using different geometrical shapes**
	Revision FA test 3	All students will be able to solve revison worksheet	FA test 3
FA 1			
	Integers: Introduction	Students will be able to explain negative numbers and their necessity in the number system.	Exercise question
	Integers:Operation on integers	Students will be able to Perform operations of addition and subtraction with integers.	Exercise question

JULY	Integers:Operations on integers	Students will be able to Perform operations of addition and subtraction with integers. Student defines Absolute value and integer rules.	Students form a number line and the pointer student moves as per the operation.
	HCF and LCM : Prime factorisation (HCF)	Students will be able to Find HCF by listing factors, prime factorisation and common division method	Exercise question
	HCF and LCM :Prime factorisation (LCM)	Finds LCM by common division method	Exercise question
AUG	**HCF and LCM :** Properties **Fractions** - Introduction as apart of a whole - Types of fractions, comparison of fractions	**1)students** Identifies and lists properties of HCF andLCM**.** **2)students** Defines the term fraction with its meaning **3)students** Defines and illustrate proper,improper,mixed,like,unlike and equivalent fractions	Exercise question,and worksheets
	Fractions - Conversion of fractions Operations	**1**)Students will be able to convert mixed into improper fractions and vice versa. **2)**Add and subtract fractions	Exercise questions
	: Decimals - Decimal fractions - comparision of decimals	**1)**Students are able to recognise decimals as fractions **2**)Students are able to compare two or more decimal fractions.	Exercise questions
	Decimals - Conversion to fractions	1)Students are able to convert fractions into decimal fractions and vice versa.	group activity

FA 2			
SEPT	**Decimals** - Conversion to fractions	1)Students are able to convert fractions into decimal fractions and vice versa.	**Exercise questions**
	Revision for SA1		**worksheets**
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	SA1		
	Ratio and Proportion :Introduction to	1)student defines and knows the meaning of ratio and will be able to use unitary method. 2)Student will be able to convert ratio in the simplest form	Execise Questions
SA 1			

OCT	**Ratio and proportion** - Equivalent ratios - Unitary Method - Proportion	1)student will be able to comapre two ratios. 2) student will be able to find proportion of numbers.	Exercise questions.
	Introduction to percentage **Perimiter and area -** Square, Rectangle , Triangles - Measurement of Area of various figures	1)student defines and knows the meaning of Percentage 2)Student defines peimiter and calculates the perimiter of different types of polyginal shapes.	Exercise questions.
	Perimiter and area **Understanding elementary shapes**	1)Student defines area and calculate area of different polygons.	• Group Work and Presentation of area calculation of the corridor of any floor.
	Understanding elementary shapes -Polygons - Triangles	1)student define and explain polygons,triangles and quadrilaterals. 2)student classify triangles based on their types. .	Activity and exercise questions
	Understanding elementary shapes -Quadrilaterals	1)student define and explain quadrilaterals. 2)Student state different types of quadrilaterals and their properties	Activity and exercise questions

NOV	**Introduction to Algebra** - Variables , Algebraic Expressions,Like and unlike terms	**1)**student define and give examples of variables constants and algebraic expressions. 2)Frame algebraic expressions	exercise questions
	Introduction to Algebra - Factor -Algebra as generalisation	1)students Recognises algebra as generalisation of situations involving aritnmetic. 2)define and students expklain terms of expression.	Class discussion
FA 3			
DEC	**Algebraic equations** - Framing and solution of equations	1)students can explain with examples what an algebraic equation is.	exercise questions
	Algebraic equations - Types of methods to solve an equation	students Will be able to form mathematical expressions from statements using variables.	exercise questions
	Algebraic equations - Types of methods to solve an equation	students will be able to convert statement into algebraic expression.	exercise questions
	Algebraic equations - Types of methods to solve an equation	students Will be able to form and solve algebraic equations using balancing and transposition method.	Class discussion

JAN	**3 D shapes:** - Elements	Students recognise and name 3d solid figures.	Exercise questions
	3 D shapes: **-** Polyhedrons	Students are able to prepare nets of simple prisms and pyramids	Activity and exercise questions
	Constructions : -Line segment - Perpendicular bisector	1)Students are able to construct line segments 2)Students are able to construct perpendicular bisector.	Exercise questions
	Constructions: - Alternative method -Construction of a circle	Students are able to construct circle	Exercise questions
FA 4			
FEB	**Constructions:** - construction of circle	Students are able to construct circle	Exercise questions
	Constructions: - Construction of angles	Students are able to construct angles	Exercise questions
	Constructions: - special angles	Students are able to constructangles	Activity

	Symmetry - Line of symmetry	Recognise Lines of symmetry in objects and figures.	activity
MAR	**Symmetry** - creating symmetrical shapes	students create objects and pictures using lines of symmetry.	exercise questions
	Data Handling - data - types of data - Pictograph	Students will be able to expalin data and its types.	class discussion
	Data Handling -various ways of of data - Bar graphs	students Will be able to plot bar graph with the given data. Will be able to interpret information through graphs.	exercise questions
	Revise SA2		worksheets
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SA 2			