MEGA SKILLS EDUCATION OPC PVT LTD

VEDIC MATHS SYLLABUS

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4 Semesters - 2 Years Course (Each Semester 6 months)

Semester – I

* Introduction to Vedic Maths
* Vedic Maths Formulae
* High Speed Addition
* Super Fast Subtraction
* Genius Mental Multiplication Techniques

Semester – II

* Miracle Multiplication

Semester – III

* Lightning Square
* Easy Square Root
* Rapid Cube
* Quick Cube Root
* Excellent Division

Semester – IV

* Vinculum
* Simple Decimals
* Fun Fractions
* Smart Percentage
* Enlighten Algebra

** Math Miracle Meditation & Yoga (M3 Y – method)

SEMESTER – I

Class – 1

Introduction to Vedic Maths

a) History of Vedic Maths
b) About the Father of Vedic Maths
c) Features of Vedic Maths

Class - 2

Vedic Maths Formulae

a) Vedic Maths – 16 sutras
b) Vedic Maths – 13 sub-sutras

Class – 3 & 4

High Speed Addition

a) Addition without carrying – 2x2, 2x3,2x4……2x10 (rows/columns)
b) Addition using dot method - 2x2, 3x3, 4x4……..10x10 (rows/columns)
c) Addition using dot method – random digits

Class – 5

Super Fast Subtraction
a) Subtraction using All from 9 last from 10
(Nikhilam Navatascaram Dashtah)
b) Subtraction using appropriate base
1-Digit number (base 10)
2-Digit numbers (base 100)
3-Digit numbers (base 1000)
4-Digit numbers (base 10000)
5-Digit numbers (base 100000)
6-Digit numbers (base 1000000)
7-Digit numbers (base 10000000)

Classes : 6 - 11

Genius Mental Multiplication Techniques Multiplication by BASE method

Multiplying any two number between 11-20 by BASE +10 method

Multiplying any two numbers between 80-100 by BASE -100 method

Multiplying any two numbers between 101-120 by BASE +100 method

Multiplying any two numbers between 980-1000 by BASE -1000 method

Multiplying any two numbers between 1001-1020 by BASE +1000 method

Multiplying any two numbers between 9980-10000
by BASE -10000 method

Multiplying any two numbers between 10001-10020
by BASE +10000 method

Multiplying any two numbers between 99980-100000
by BASE -100000 method

Multiplying any two numbers between 100001-100020
by BASE +100000 method

Multiplying any two numbers between 999980-1000000
by BASE -1000000 method

Multiplying any two numbers between 1000001-1000020
by BASE +1000000 method

Multiplying any two numbers between 9999980-10000000 by BASE -10000000 method

Multiplying any two numbers between 10000001-10000020
by BASE +10000000 method

* Multiplying numbers above and below the BASE

Class – 12

Revision and Submission of Assignment by the students

Class – 13

1st Semester Examination

SEMESTER – II

Miracle Multiplication

Class : 14 -16

Multiplication by 9's

a) any two digit numbers by 99
b) any three digit numbers by 999
c) any four digit numbers by 9999
d) any five digit numbers by 99999
e) any six digit numbers by 999999
f) any seven digit numbers by 9999999
g) any eight digit numbers by 99999999
h) any nine digit numbers by 999999999 and so…on

i) any random digit number by any random of 9's

Case i: 99999 999999999
x 456 x 345678
…… ……

Case ii: 456578 4567456675
x 9999 x 99999
……. ……..

Class: 17-19

Multiplication by 1's

a) any two digit numbers by 11
b) any three digit numbers by 111
c) any four digit numbers by 1111
d) any five digit numbers by 11111

e) any six digit numbers by 111111
f) any seven digit numbers by 1111111
g) any eight digit numbers by 11111111
h) any nine digit numbers by 111111111 and so…on

* i) any random digit numbers by 12

i) any random digit numbers by any random of 1's

Case i: 11111 111111111
x 456 x 345678
…… ……

Case ii: 456578 4567456675
x 1111 x 11111
……. …….

Class: 20

The first number is same and the end digit must be add to 10

Class: 21–24

Multiplication of any random digit number by any random digit number

(APPLICATION OF URDHVA TIRYAGBHYAM)
(VERTICAL & CROSSWISE)

a) any two digit numbers multiplied by any two digit numbers
b) any three digit numbers multiplied by any three digit numbers
c) any four digit numbers multiplied by any four digit numbers
d) any five digit numbers multiplied by any five digit numbers
e) any six digit numbers multiplied by any six digit numbers
f) any seven digit numbers multiplied by any seven digit numbers
g) any eight digit numbers multiplied by any eight digit numbers
h) any nine digit numbers multiplied by any nine digit numbers
i) Multiplying a long number by a shorter number

j) any random digit numbers by any random digit numbers

Case-ii 23456 6567
x 879 x 4567865

Class: 25 Revision and Assignment

Class: 26 Semester – II Examination

SEMESTER – III

Lightning Squares

Class:27 – 28

a) Urdhva Tiryak Method of Multiplication
b) Using the Yavadunam Thavadunikrutya Vargancha Yogayet Sutram
c) Using the duplex method (Dwandwayoga method)
d) Squares of demimals
e) Application of Anurupyena Sutram (geometrical progression)

f) Squares of numbers ending in 5
(Ekadhikena Purvena Sutram)

g) Squares of numbers by base method

h) Squares of numbers by duplex method

i) squares of any 2 digit numbers
ii) squares of any 3 digit numbers
iii) squares of any 4 digit numbers
iv) squares of any 5 digit numbers
v) squares of any 6 digit numbers
vi) squares of any 7 digit numbers
vii) squares of any 8 digit numbers

Easy Square Roots

Class: 29-30

a) Straight Division Method

(Application of Dwandwayoga (duplex) Method)

Rapid Cubes

Class: 31-32

a) A general method of cubing
b) Yavadhunam Sutra for cubing
c) Cubing Using Series Multiplication

Quick Cube Root
Class:33-34

a) Cube roots of exact cubes
b) If the cube is even
c) Imperfect cube
d) Finding the fourth root
e) Finding the fifth root
g) Finding the sixth root

Excellent Division

Class: 35-37

By Nikhilam Rule (Special cases of dividing with 9,8,7 & 6)

Straight division -Application of Urdhva Tiryak Sutram for numbers (Vinculum method)

Reduction method for straight division (simplified)

Class: 38 Revision and Assignment

Class: 39 Semester – III Examination

SEMESTER – IV

Class: 40-41

Vinculum a) Introduction to vinculum numbers
b) Convert vinculum numbers to normal form

c) Subtraction using vinculum numbers

Simple Decimals
Class: 42-43

a) Introduction to decimals
b) Decimal addition
c) Decimal subtraction
d) Decimal multiplication
e) Decimal division

Fun Fractions
Class: 44-45

a) Introduction to fractions
b) Fraction multiplication
c) Fraction – addition & subtraction (same denominators)
d) Fraction division
e) Fraction – addition (different denominators)
f) Factoring
g) Reducing to lowest terms
h) Mixed numbers
i) Multipying mixed numbers

Smart Percentage
Class:47-48

a) Introduction to percentage
b) Percentage difference
c) Convert percents to decimals
d) Convert percents to frations

Enlighten Algebra
Class: 49-50

a) Quadratic Formula
b) Exponents and Radicals
c) Absolute Value
d) Special Product Formulas
e) Binomial Theorem
f) Special Factoring Formulas

g) Inequalities
h) Exponentials and Logarithms

Class: 51

Revision and Assignment

Class: 52

Semester – IV Examination