Items Force Schools and Forces

MATHEMATIC KIT JUNIOR

All the below items, packed in a kit with manual

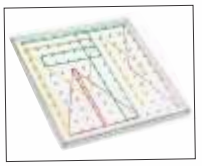
It contains the following articles :-

Set of 12 Geometrical Figures size 5 × 10 cms

Geometrical Instruments Box plastic Superior

Measuring Instruments
a. Tape for learning measurement 3 meter
b. Jug & beaker 50 ml to 1000 ml Set of 5
c. Wall Thermometer on plastic base
d. Chemical Thermometer 30 cm.
e. Kitchen Balance

Geoboard made of transparent plastic can be used on OHP with rubber bands



Abacus Wooden 30 cm

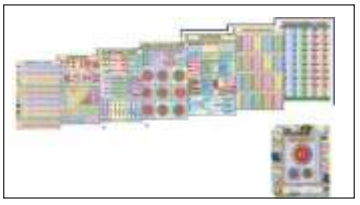
Count your own designer fraction made of rubber foam set of 72 Triangles in 3 colours

Fibre Dummy Clock for teaching reading of Time on a Clock

Game of Place Value

Pattern making with plastic triangles of 3 different sizes

Charts for Arithmetic size 50 × 70 cm
English Numerical
Addition
Subtraction
Multiplication
Division
Multiplication Table
Roman Numerical Chart



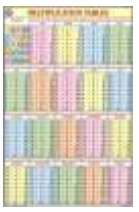
Magnet Fraction Disc with Magnetic Board

Skip counting game with marbles

Transparencies set of 10

MATHS SECTION

PVC charts for practicing size 67 × 100 cm Numerical, Multiplication Table & Graph



Half Meter Scale Wooden

Set of Pearl Marbles

Plastic Moulds : Geometrical Shapes set of 12 with clay

Set of Cups

Geometrical stencils : 10 shapes of plane figures size 18 × 22 cm

Junior Pythagoras Theorem, Made of Plastic

All the above items, packed in a kit with manual

MATHEMATICS KIT SENIOR

All the below items, packed in a kit with manual

It contains the following articles

Geoboard made of transparent plastic can be used on OHP with rubber band

Magnet Fraction Disc with Magnetic Board made of rubber foam to teach circle and its parts with screen printing

Pearl Marbles

Pythagoras Theorem formula derivation as practical game $a_2+b_2=c_2$

Banking Dummy Cheque Book & Dummy pay-in-slip Charts printed on synthetic paper

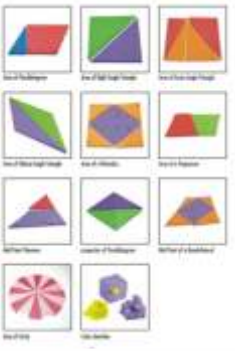
a. Mensuration Chart
b. Graph Chart Laminated
c. Shapes & Figures (Description of Figures with thei angles & construction)
d. Chart of Math symbol
e. Algebra identities
Derivation of the value of pi size 28 cm

Derivation of the value of pi size 28 cm

Set of cups with volume marked

Cubes of Algebra size 2 cm. set of 128 cubes

Mensuration kit : for understanding the following
a. Area of Parallelogram
b. Area of Triangle set of 3
c. Area of Rhombus
d. Area of Trapezium
e. Mid Point Theorem
f. Area of a Circle
g. Properties of Parallelogram
h. Quadrilateral Formed by the Mid Points of a Quadrilateral
i. Algebraic Identity set of Cubes



Sextant model

Theodolite model

Optical Square

Cross Vertical Staff

Vernier Caliper

Model Standard Time Indicator

Metal wired Tape 15 meter

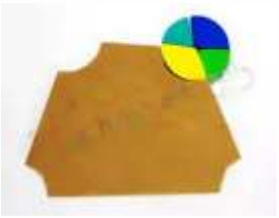
Rain Gauge

Angle in a circle & its part

ADDITIONAL ITEMS FOR MATHEMATICS LABORATORY

Exterior Angle of Regular Polygon : Equipment to demonstrate the sum of exterior angle of polygon is 360_0.

Angle Sum Property of Triangle : Magnetic triangle with its angles cutout to demonstrate angle sum property of a triangle.



Angle Sum Property of Quadrilateral : Magnetic quadrilateral with its angles cutout to demonstrate angle sum property of a quadrilateral.

Ratio of Area of Similar Triangles : To verify the result that ratio of the areas of two similar triangles is equal to the ratio of the squares of their corresponding sides.

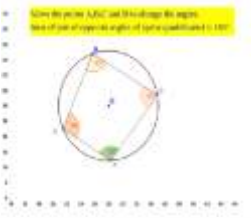
Volume Relation between Cone and Cylinder : of same dia and equal height.

Conic Section (Set of 4) : Parabola, Hyperbola, Circle & Ellipse.

Combination of Cube and Sphere (Transparent) : Plastic

Construction of Parabola : An equally marked points of division are joined together to construct Parabola.

Power$_2$ (Power of Two): To understand the concept of square number. By using the same article student can also learn Cartisian coordinates..



Angle property of Cyclic Quadrilateral Opposite angles are supplementary.

Sit and Set (Set of 6 different Combo Flat Shapes) : It is an interesting puzzle to understand. Shapes, size, combination of different flat figures.

Tangram : This is popularly known as famous Chinese Puzzle. Made of foam,

Transparent Acrylic figures : Cube, Cuboid, Cone, Cylinder and 2 hemispheres

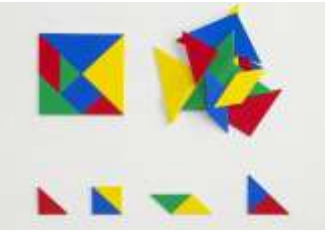
Hollow Sphere (Transparent) : To demonstrate the complicated concept of calculating mass of hollow sphere.

Tangram : This is popularly known as famous Chinese Puzzle. Made of foam, set of 4 pcs

Place Value Mat with Stacking Counters: Helps children visualize place as they build numbers from 1 to 99,999. Set of 5 colour-coded stacking counters support in learning numeric, written, and expanded forms of a number and number operations. It also includes place value mat and place value cards. Counter snaps together vertically and can be stack in its appropriate place.

Ring of Theorem: (This is an amazing innovation for circle related theorems) Angle in semi Circle, Angle in segment, Center angle properties, Angle subtended in the same segment etc.

Hollow Cylinder (Transparent) : To demonstrate the complicated concept of calculating mass of hollow cylinder



Magnetic Tangram : It is a perfect tool for class room demo. size 21 x 21cm.

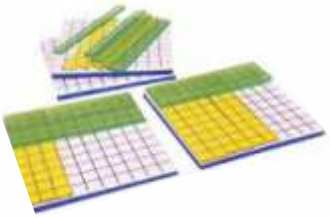
Place Value Chart with Sticks : Making bundles of ten sticks to represent tens, gives a hands-on experience to group numbers in tens. It allows children to perform activities related to place value, counting, grouping, numeration and number operation

Place Value Cards : A set of 72 cards for different place values rangeing from thousand to ten thousandths. Can be used to distinguish between face value and place value, and to represent expanded and standard form of a number. Helps in developing quick arithmetic strategies

Algebra Identity Case 1: $(a+b)_2$, $(a+b+c)_2$
To demonstrate the complex identities in a simpler way

Algebra Identity Case 2: $(a+b)_2$-$(a-b)_2$ = 4ab
To demonstrate the complex identities in a simpler way.

Fraction Square : To understand the concept of Square fraction and percentage.



Decimal Plate (Set of 4): To show the process of multiplication of decimals with help of square or rectangular grid plate.

Roman Number Kit. (Group Activity): To teach roman number with the help of roman numerical printed tiles and teacher magnetic roman kit.

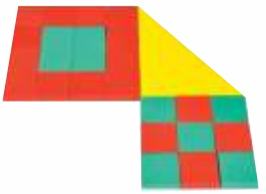
Number with Plate : This is an activity to teach digit arrangement & their place value.

Triangle Kit (Group Activity set of 5 kits) To teach congruency of triangle, classification by their angle and sides.

Cuisenaire Strips

Geometry Kit : It helps to make all kinds of quadrilateral. Polygons by arranging multipurpose strips..

Pythagoras theorem: proved by using reverse method.



Pythagoras theorem: by arranging small square pieces to make side square

Magnifying Measures: To teach metric conversions of inches, cm & mm

Integer number line Bar

Metric Wheel: by knowing the circumference, student can calculate the length of any distance.

Polyhedron and their net: To understand different solid shapes and idea of faces, edges & vertices.

Fraction Wheel EVA Foam.

Formation of Tetrahedron.

Dummy Currency Notes- 5pcs each of Rs 1, 2, 5,10,

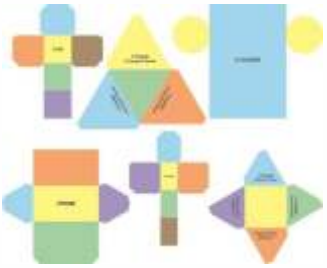
Linking Cubes (Multi Pack) 2cm interlinking cubes set of 625 pcs. in five colours.

Integer Counter : Set of 100 tiles used for understanding addition and subtraction of integers Made of plastic

Parallelogram kit: Set of 6 parallelograms used to demonstrate various properties. Made of plastic.Magnetic.

Working Model of Pythagoras theorem (Acrylic).

Pattern Blocks (Multi Pack) containing Hexagons trapezoids, Rhombus, Triangles, Diamonds & Squares in assorted colours & quantities set of 864 pcs



Pattern Blocks (Student Pack) same as above but set of 144 pcs

Paper Nets of Solid Shapes : Set of 7x2 each.

47Dummy Coins set of 56 pcs.

Jumbo Beads set of 100 pcs.

Beads with String set of 100 pcs.

Beads with String with Hangers Beads dia 4cm Set of 100 Beads in 2 Colours : A very useful resource for whole class. Children can easly recognize the patternof 10s, and can learn the concept of counting,estimation, quick number operations, etc. It's a concrete number line to repreasent positioning of numbbers

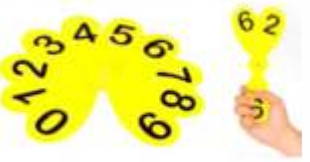
Linking Cubes 1.5 cm interlinking cubes set of 1000 pcs. in ten colours.

Mensuration Cube : It is used to extend the concept of surface area and volume of solids into a cube. The learner can also explore the concept that increase/decrease in the volume of a solid may not result the same change in its surface area

Tangent Geoboard : This geoboard is used to investigate the concepts related to circles and tangents with the help of rubber bands

Geared Teacher Clock : Hidden gears maintain correct hour and minute relationships as you manipulate movable hands. Made of durable plastic.

Student Clock Write and Wipe : Encourage class to participation with write-on/wipe-off clock. This set of 5 clocks is Great for small-group activities. clocks with movable hands and a place to write in digital time



Number Fins : It acts like flash cards with multiple option to interact mathematically. Set of 2 fins with numbers.

Hook n Look Numerical Balance : Promotes student to do activity on his own and explore the concept of addition by touching the number.

Hexagonal Plastic Weights: set of 52 pcs. Weights of 1g/ 5g/ 10g & 20g. Colour coding for easy identification.

Data collection board with data cubes:

Phases Fraction (48 Pcs.) : Useful to learn fraction, percentage, decimals, area, perimeter of different shapes and their relation.

MATHEMATICAL AND DRAWING INSTRUMENTS

Black Board Geometrical Instruments Box : containing pair of set squares, protractor, compass, divider, scale & duster. made of plastic

Jumbo Geometry Box : Consisting of one meter scale (2 Parts)-101 cm, one Pointer (2 parts)-100 cm, one set of set squares-31x54x62 cm & 38x38x54 cm,one protractor-50x11 cm and one compass-each arm 50 cm. Made of very good plastic. Ideal for working on any board.

Place Value Abacus Big Made of plastic. Size: 26.5x 24.5x10 cm. U shaped wire abacus. There are 6 wires containing 9 beads each. Wires represent place value each bead can hold. Place value represented by wires from right to left are ones, tens, hundreds, thousands, ten thousands and hundred thousands. Each bead has a face value of one. Thus 2 beads in wire has a face value of 2, 3 beads altogether in a wire has total face value of 3 and so on. Face value and place value concept in a number system is easily understood. Beads can be used for simple counting, addition and subtraction of numbers

Superior Quality Wooden

Compass Wooden

Compass Plastic

Drawing Instruments Box: Containing one half-set compass 15 cm, One Divider 15 cm, Pen and Pencil Point, Ink Point, Lengthening Bar, Compass, Divider, Ink compass, Rotring type attachment, Bow Pen, Handle for hand work, Lead case and tightening key/screw driver.

Sand Timer Clock:-Each sand timer height 8.8 cm.Colour ful sands. 5 kinds of sand timers. Show approx.time span for 1, 2, 3, 4 & 5 min. respectively.

Splicing Geo Sticks Set With Pegs Material: Plastic.30 Sticks each of 3 sizes (total 90 sticks) provided. Sizes are: 29cm, 19cm, and 9 cm long. 100 pegs are provided. Each stick has perforations for pegs to join and assemble stick together to form various geometric shapes and angles.

Map Measurer (Rotometer) Size: 9.5x4.5x1.5 cm. Material: Metal & Plastic. Hands on dials can be set to zero manually.

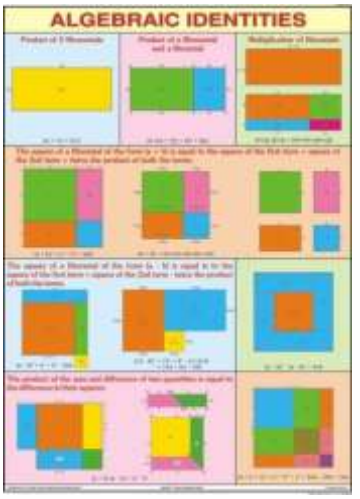
Compass Size: 7.7x5.5x2.7cm. Material: Metal & Plastic. Keep at a safe distance from magnetic or electrical sources for proper functioning of compass

MATHEMATICS CHARTS

GENERAL

Printed on Synthetic Paper. Set of 5. English only.
Each Size 70 × 100 Cm

Mensuration Chart
Graph Chart Laminated
Shapes & Figures (Description of Figures with their angles & construction)
Chart of Math symbol
Algebra Identities



PRIMARY

Size 50 x 70 cm LAMINATED

English Numerical
Division
Addition
Multiplication Table
Subtraction
Roman Numerical Chart
Multiplication

UPPER PRIMARY

- Number system
- Angles
- Congruent Triangles
- Algebra-definitions and formulae
- Pair of Angles
- Properties of Circles
- Addition of rational numbers
- Triangles
- Mensuration - I
- Mensuration - II
- Multiplication of rational numbers Quadrilateral
- Some Geometrical concepts
- Circle Profit & Loss