

Issue - 003 | September 2020

# MATHALOGUE

Spark up your Maths Logics

## Creative Learning Tools



**TOPSUN**<sup>®</sup>  
Learnovative Solutions (P) Ltd.



**TOPSUN**  
Learnovative Solutions (P) Ltd.

# TOPSUN

Learnovative Solutions (P) Ltd. was established in 1992 and is an Original Equipment Manufacturer (OEM). Our manufacturing unit comprises with an area of more than 10,000 square feet where we assemble more than 10 lakhs kits and resources. We have gained more than 25 years of rich experience in serving the nation in the field of Education, mainly promoting Activity Based Learning (ABL). We design and develop innovative educational learning resources in the following areas:

- Mathematics
- Science
- Pre-schoolers
- Customized learning resources for other organizations

These learning resources are concrete objects that can be viewed and physically handled by learners to self-understand the concepts. They allow learners to construct their own thinking for abstract ideas and processes. They also have the additional advantage of engaging children along with simplifying the concept. These resources create interest and enjoyment in learning.



Use of learning resources help in

- Establishment of Topsun Learnovative Solutions (P) Ltd.
- Trading of scientific laboratory equipments

- Topsun Learnovative Solutions (P) Ltd. became separate entity with 3 members
- Research and Market Need Analysis – Gaps in Indian Education System, How education is imparted in foreign schools

- Setup own manufacturing unit and ready with 10 products to launch in the market (Just an year before the NCF 2005)

- Stand strong with positive feedback and appreciation from the market along with the improvement ideas
- Worked on product improvement and enhancement
- More than 100 products introduced in the Market
- Team of about 25 members
- Transformed into OEM with Educomp as its first client in the year 2006

1992 - 1998

1999 - 2003

2004

2005 - 2011

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- Started Science DIY Section
- Launched Secondary and Senior Secondary Mathematics Products
- Team of about 40 members
- Dealing directly with more than 500 clients
- Associated with more than 25 organisations for manufacturing their customized products

- Launched Science DIY Kits, Math Games, Magnacoat in The 10th Toy Biz B2B Exhibition
- Team of more than 100 members
- Dealing directly with more than 2000 clients
- Associated with more than 100 organisations for manufacturing their customized products

2012 - 2015

2017

## meet the Founder

Tarun Sharma is a passionate entrepreneur who wants to make learning simple and cost effective for every child. His own fear towards Mathematics during school education made him eager to find a solution which can be interesting, real life connected, long term retention and conceptually clear for every child. He joined his family business where one of their firm, namely

"Topsun Learnovative Solutions (P) Ltd.", which was involved in trading of scientific laboratory equipments. He took initiative to create 'Topsun Learnovative Solutions (P) Ltd.' as a separate entity which was supposed to work for children towards Mathematics Hands-On Learning. Topsun Team did thorough research, which included best practices across globe, to find how Mathematics should be taught focusing mainly on conceptual understanding and create self-learning interest in children. With this research, they decided to manufacture resources which can support Mathematics learning in fun, interesting way which brings clarity to concepts with long term retention. In the year 2004, the organisation launched 10 unique products that he introduced to few schools. The positive responses helped him to continue his research and now Topsun Learnovative Solutions (P) Ltd. has launched 10 unique products that he introduced to few schools. The positive responses helped him to continue his research and now Topsun Learnovative Solutions (P) Ltd. has more than 100 members team, learning resources in different areas, about 500 products, more than 2000 clients and so on. The organization's continued focus has and is always been the child, who is going to use the products and to transform the art of learning. Topsun's mission is to ensure that every child should get the opportunity of experiential learning.



**Tarun Sharma**  
 Founder  
 Topsun Learnovative Solutions (P) Ltd.

# Counting

## Introduction:

During early years, children begin building an awareness for the various concepts such as counting, sorting and shapes which continue to expand with the growing age. Early Math skills focuses on classification, one-to-one correspondence, counting, number recognition etc. The use of manipulative makes understanding math related concepts easier for children as well as provide opportunity for active participation which results in learning retention for long term and apply mathematics in real life.



Set of 400 Pcs. in 4 Colours

## Marbles

**CN 100** This product is used to understand the concept of colour recognition, counting, addition, subtraction, odd - even numbers, probability etc. Duly packed in plastic boxes.



Diameter : 30mm  
Set of 100 Pcs. in 2 Colours

## Integer Counters

**CN 101** These double sides plastic integer counters helps to understand addition, subtraction, multiplication & division of integer numbers.



Diameter : 48mm  
Set of 48 Pcs. in 2 Colours

## Magnetic Counters

**CN 102** Magnetic EVA foam counters are perfect for demonstration activities. This provides a tactile and visual model of key maths concepts including sorting, counting, patterns and integer numbers on Magnetic Board.



Diameter : 30mm  
Set (A) of 100 Pcs. in 2 Colours  
Set (B) of 500 Pcs. in 2 Colours

## 2 Colour Counters

**CN 103** These 2-coloured plastic counters are used to learn the concept of sorting, counting, patterns basic addition and subtraction activities in small groups or individual student desk.



Diameter : 30mm  
Set (A) of 125 Pcs. in 5 Colours  
Set (B) of 250 Pcs. in 5 Colours  
Set (C) of 500 Pcs. in 5 Colours

## 5 Colour Counters

**CN 104** These 5-coloured plastic counters are used to learn the concept of sorting, colour recognition, counting, patterns, basic addition and subtraction activities in small groups or individual student desk.

# Counting

New



Size : 1cm x 1cm x 1cm  
Set of 1000 Pcs. in 10 Colours

## Unit Cubes

**CN 105** Unit cubes are one of the most widely used Math manipulative in the world. These 10 colours unit cubes help children to learn number and math concepts. These cubes represent units. Unit cubes are used for learning patterns, sorting, counting, numbers, number operations and measurement.

New



Size : 1.5cm x 1.5cm x 1.5cm  
Set (A) of 100 Pcs. in 2 Colours  
Set (B) of 500 Pcs. in 5 Colours  
Set (C) of 1000 Pcs. in 10 Colours

## Linking Cubes

**CN 106** Linking cubes provide mathematical learning experiences to develop the concept of counting, sorting, place value, number operations, measurement, patterns, algebra and mensuration. Easy to connect also supports motor skill development of toddlers. The Linking Cubes are a versatile tool for all levels of learning and proficiency in the classroom.



Size : 2.5cm x 2.5cm  
Set (A) of 250 Tiles in 5 Colours  
Set (B) of 500 Tiles in 5 Colours

## Colour Tiles

**CN 107** These multicoloured plastic square tiles are one of the best tools to understand area and perimeter. This is a versatile tool which also helps to understand concepts of colour recognition, sorting, counting, patterns, number operations etc.



Length : 20feet  
1 to 25 Numbers

## Number Mat

**CN 108** Get kids to think on their feet! Number mat has numbers from 1 to 25, allow kids to learn math with fun and play different games on it. Kids hop on the mat to learn forward and backward counting, skip counting, just after/before a given number, simple addition and subtraction on number line etc.

# Counting



Diameter : 2cm  
Set (A) of 125 Pcs. in 5 Colours  
Set (B) of 250 Pcs. in 5 Colours

## Stacking Counters

**CN 109** These 5-colour plastic stacking counters are used to learn concepts such as sorting, counting, basic arithmetic operations, number patterns, comparing and ordering numbers.



Size : 20cm x 30cm

## Skip Counting Board

**CN 110** This board consists of fifty slots provided with 25 marbles to understand counting, skip counting, multiplication and number patterns.



Size : 7cm  
Set of 60 Numbers, 30 Mathematical Symbols  
& 3 Magnetic Plates

## Magnetic Numbers

**CN 111** Every child loves to play with magnetic number on the Refrigerator. These durable soft EVA numbers are bright in colour with soft magnetic back and are big for easy holding by little hands. It is appropriate to use for number identification, number expressions and equations.

New



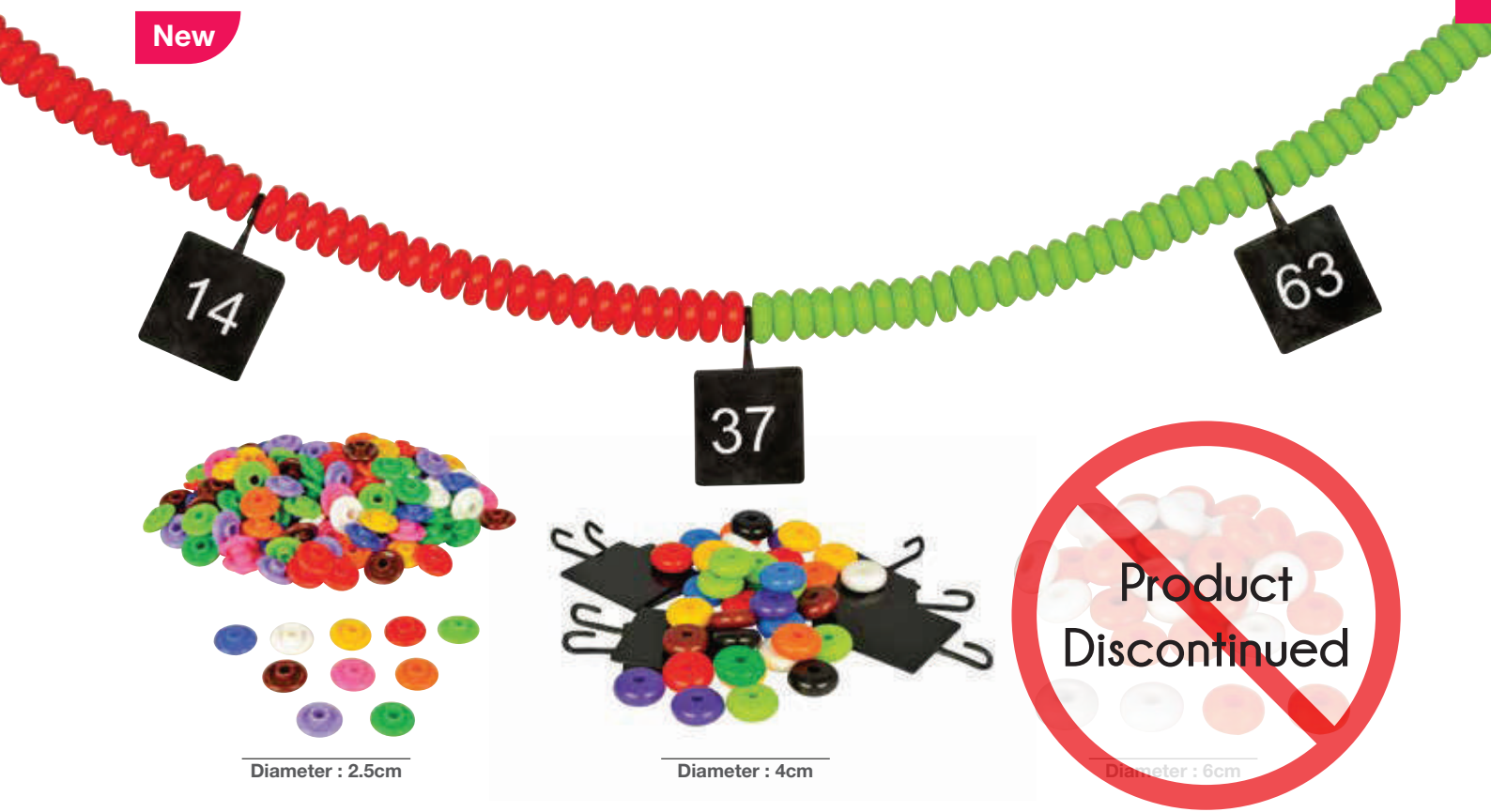
Size : 7cm  
Set of 10 Numbers &  
5 Mathematical Symbols

## Magnetic Digits

**CN 112** Every child loves to play with magnetic number on the Refrigerator. These durable soft EVA numbers are bright in colour with soft magnetic back and are big for easy holding by little hands. This is one of the best resource for number identification. Children can finger trace on the number to learn its formation.

# Counting

New



Diameter : 2.5cm

Diameter : 4cm

Diameter : 6cm



## Beads in String

**CN 113** A very useful resource for whole class. Children can easily recognize the pattern of 10s, and can learn the concept of counting, estimation, quick number operations, etc. It's a concrete number line to represent positioning of numbers

- Size : 2.5cm
- Set (A) of 500 Beads in 5 Colours with 20 Hangers
- Size : 4cm
- Set (B) of 100 Beads in 2 Colours with 10 Hangers
- Size : 6cm

New



- Size : Chart - 65cm x 65cm, Cards - 5.3cm x 3.3cm
- Set of 107 Pcs. Cards 1 to 100 Numbers & 7 Mathematical Symbols. Both Side Printed

## Hundred Pocket Chart

**CN 114** A pocket chart with transparent pockets and number cards which helps to learn counting, skip counting, missing numbers etc. It is an easy tool which can be fold-able & hangable anywhere in class.

# Counting

New



Size : 2cm x 2cm x 2cm  
Set of 500 Pcs. in 5 Colours

## Interlocking Cubes

**CN 115** Interlocking cubes provide mathematical learning experiences to develop the concept of counting, sorting, place value, number operations, measurement, patterns, algebra and mensuration. Easy to connect from all sides also supports motor skill development of toddlers. These cubes are a versatile tool for all levels of learning and proficiency in the classroom.

New



Product  
Discontinued

Size : 5cm  
Set of 2 Fins with Numbers  
(0 to 9) One Each.

## Number Fins

**CN 116** Number fins acts like a flash cards with multiple options to interact mathematically. An effective tool for number identification and its symbolic representation. Every child can show the numeric answers on the fins which allows the classroom for self-checking and immediate feedback.

New



Size : 5cm  
Set of 26 Pcs. of Magnetic Alphabet (a to z) in Multicolour.

## Magnetic Alphabet (Small)

**CN 117** It is ideal for teaching early spelling, letter recognition, sounds of letter, reading skills & visual discrimination of alphabet. It is great for hanging notes on the magnetic surface.

New



Size : 5cm  
Set of 26 pcs. of Magnetic Alphabet (A to Z) in Multicolour.

## Magnetic Alphabet (Capital)

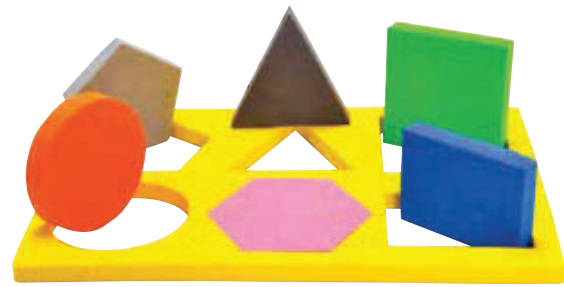
**CN 118** It is ideal for teaching early spelling, letter recognition, sounds of letter, reading skills & visual discrimination of alphabet. Set consist of 26 pcs. of magnetic alphabet in multicolour. It is great for hanging notes on the magnetic surface.



# Sorting

## Introduction:

Sorting is one of the primary skill in laying foundation of Mathematics. It plays a key role in child's education and life. Sorting activities help children to develop their understanding of object and shapes in their environment and help them to recognize and describe the attributes of shapes. By sorting, children understand that things are alike and different as well as that they can belong and be organized into certain groups. Getting practice with sorting at an early age is important for numerical concepts, grouping numbers and sets when they're older. This type of thinking directs them on the path of applying logical thinking to objects, mathematical concepts and everyday life in general.









Size : 23cm x 15cm

## 2D Shape

**ST 200** Two-dimensional shapes are a vital math topic for student. Matching and fixing right shapes provides fun and exciting hands on activities that can also address shape names and properties to engage and motivate student. This allow student to be creative in their learning, developing their confidence and interest in the subject.



Hexagons	Squares	Equ. Triangles	Trapezoids	Small Rhombus	Big Rhombus
					
6 Pcs.	36 Pcs.	36 Pcs.	12 Pcs.	18 Pcs.	36 Pcs.

Set of 144 Pcs. of 6 Shapes in 6 Colours

## Pattern Block (Student Set)

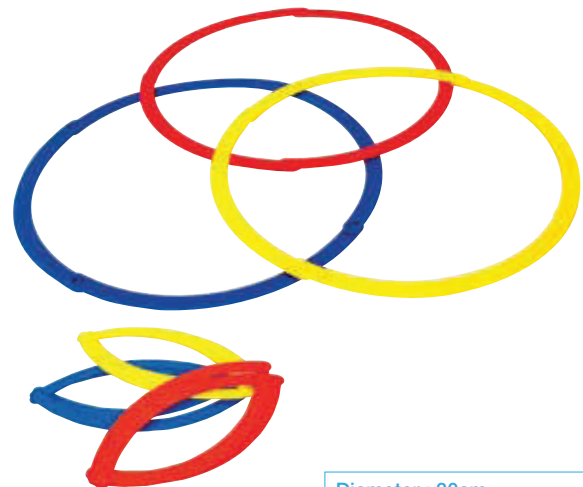
**ST 201** Pattern blocks offer a distinctive way for child to learn shapes and patterns. Using these blocks for sorting on different properties such as colours, shapes or size. It provides wonderful learning experiences along with opportunity to be creative. Many other concepts such as fractions, shapes, angle relationships, symmetry, area and perimeter etc. can be explored through hands-on activities which encourage the child to learn math with an entertaining approach



Size : 21.5cm x 15cm  
Set of 60 Pcs. of 5 Shapes in 3 colours

## Attribute Blocks

**ST 202** Each set of Attribute blocks includes shapes in distinct colours, sizes and thickness which allows child to sort and classify based on different attributes such as colours, shapes, big/small, thick/thin etc. This manipulative not only fosters hands-on learning but also helps in developing pre-number sense and math vocabulary.



Diameter : 30cm  
Set of 3 Rings in 3 Colours

## Sorting Ring

**ST 203** These Plastic foldable circle rings can be used in different ways from elementary to higher secondary for grouping, set theory and Venn diagram demonstration.

# Place Value

## Introduction:

Place value is an extremely important concept that lays foundation of Number Sense. It is taught as early as in kindergarten and as children learn about larger numbers, the concept of place value continues throughout the middle grades. Place value refers to the value of the digit based on its position. Place value is an abstract concept that is difficult for young learners. Understanding place value fully requires many hands-on experiences.



Size : 30cm x 25cm  
Set of 100 Beads with 10 Wire

### Frame Abacus (Wooden)

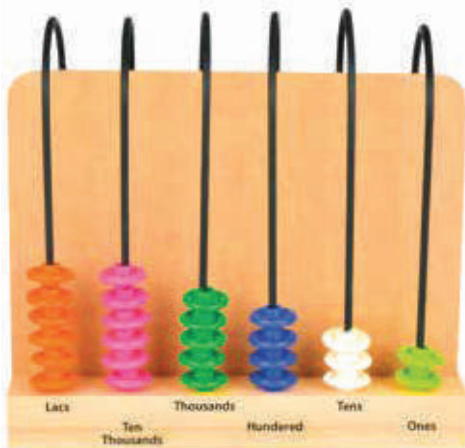
**PV 300** This smooth-sanded wooden Abacus with 10 wires and 10 beads in each wire. This resource is very effective in developing the concept of place value and number operations in different ways.



Size : 30cm x 25cm  
Set of 55 Beads with 10 Wire

### Counting Abacus (Wooden)

**PV 301** This is a simple wooden frame abacus with 10 wires, 1st wire contains 1 beads and 10th wire contains 10 beads in ascending order. This abacus can be used in developing early math skills and to learn to count till 10, comparing and ordering small numbers, simple addition and subtraction.



Size : 20cm x 7cm  
Set of 54 Beads with 6 Wire

### Game of Place Value

**PV 302** This U-Shaped wire abacus with 6 wires and 9 beads in each wire is used to learn the concept of place value of different number up to lakh. Forming numbers with given digits and hence building greatest/smallest number is fun to learn.



Size : 20cm x 4cm  
Set of 70 Beads with 7 Spikes

### Decimal Abacus

**PV 303** This wooden abacus allows child to learn decimal numbers and its place value. Performing operations (add or subtract) on whole numbers and decimals numbers with this abacus is easy and fun.

# Place Value

New

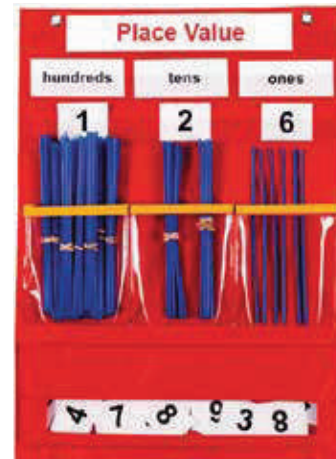


Size : 30cm x 27cm  
Set of 45 Cards with 125 Counter in 5 Colours

## Place Value Mat with Stacking Counters

**PV 304** Help children visualize place value as they build numbers from 1 to 99,999. Set of 5 colour-coded stacking counters supports 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.

New



Size : 30cm x 46cm  
Set of 60 Cards with 250 Sticks

## Place Value Chart with Sticks

**PV 305** Making bundles of ten sticks to represent tens, gives a hands-on experience to group numbers in tens. This kit allows children to perform activities related to place value counting, grouping, concept of hundreds, tens and ones, numeration and number operations.



Set of 121 Pcs.  
Units : 100 Pcs., Tens Rods : 10 Pcs.,  
Hundreds Flats : 10 Pcs., Thousand Cube : 1 Pc.  
(Two-Dimensional Representation of Each)

## Magnetic Base Ten Blocks

**PV 306** Model essential base ten and place value concepts on your magnetic whiteboard so the whole class can see. These proportional foam magnetic pieces are perfect visual aid for teaching base ten basics. One of the best resource to learn major concepts of number sense, namely place value and number operations. This classroom demonstration tool is also useful for hands on learning in small or large group.

New



Set of 45 Cards

Each Set Consists of 5 types of cards for each of the places Ones, Tens, Hundred, Thousand, Ten Thousand, 9 cards for each place labelled with 1-9, 10-90, 100-900, 1000-9000 and 10,000 - 90,000 respectively.

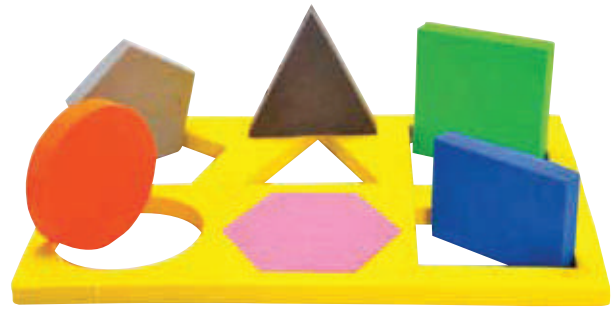
## Place Value Cards

**PV 307** A set of cards for 5 different places – ones, tens, hundreds, thousands and ten thousands, can be used to distinguish between face value and place value, and to represent expanded and standard form of a number. It also helps in developing quick arithmetic strategies.

# Geometry

## Introduction:

Geometry is the study of figures in a space of a given number of dimensions and of a given type. The most common types of geometry studied at school level are plane geometry (dealing with objects like the point, line, circle, triangle, and polygon), solid geometry (dealing with objects like the sphere, and polyhedron). Understanding geometry is a necessary step in understanding how the world is built.



Size : 23cm x 15cm

## 2D Shape

**GM 400** Two-dimensional shapes are a vital math topic for children. Matching and fixing right shapes provides fun to little learners. Exciting hands-on activities can also address shape names and properties to engage and motivate student.



Size : 21cm  
Set of 10 Pcs. in 10 Colours

## Stencils

**GM 401** This set of 10 plane colourful geometrical magnetic figures are best for tracing on board and explain concepts related to shapes and its related properties.



Size : 20cm x 25cm  
Set of 12 Hollow Shapes with Clay

## Plastic Moulds

**GM 402** It helps children to make various geometrical figures and have fun with learning.



## Teachers Geometry Box

**GM 403** Teacher Geometry box gives access to all tools, which can be easily used on board, to teach concepts related to geometry. The set contain a D-Shaped Protractor, adjustable compass, divider, ruler, Pair of set squares and duster. All items are made from plastic.



## Jumbo Geometry Box (Transparent & Magnetic)

**GM 404** This set consists of transparent and magnetic geometric tools, which can be easily used on board, to teach concepts related to geometry. The set consists of 1 metre foldable scale, 50 cm compass, 40 cm set square and 40 cm protractor.

# Geometry

New



Size : 10cm  
Set (A) of 12 Pcs. with Lid  
Set (B) of 6 Pcs. with Lid

## Transparent 3D Solid Set 10cm.

**GM 405** Introduce children to solid geometry and allow them to investigate shapes, faces, vertices, edges, curves and angle with these plastic solids set. These large solids add a tactile element to geometry lesson, illustrating relationships between area, volume, shape and size. These shapes include cone, cylinder, cube, cuboid, sphere, rectangular prism, square base pyramid etc.

New



Size : 5cm  
Set (A) of 12 Pcs. with Lid  
Set (B) of 6 Pcs. with Lid

## Transparent 3D Solid Set 5cm.

**GM 406** Set of 12 transparent plastic solids (with lid) include cone, cylinder, cube, cuboid, sphere, rectangular prism, square base pyramid etc.



Size : Height 12.5 cm  
Outer Diameter 12.5 cm  
Inner Diameter 7.5 cm

## Hollow Sphere

**GM 407** This tool is used to demonstrate mass and volume of hollow sphere. This transparent manipulative has an additional section of an inbuilt inner sphere.



Size : Height 14 cm  
Outer Diameter 10 cm  
Inner Diameter 5 cm

## Hollow Cylinder

**GM 408** This transparent manipulative helps to understand the complex calculation of surface area, volume and mass of hollow cylinder (Pipe).



Size : 10cm  
Set of 5 Pcs. with Lid

## Volume Relationship Set

**GM 409** This set is used to teach the volume relationship among 3D Solids. This set consists of 10 cm dimension 3D Solid that allow filling liquid or any dry material (eg: sand) to demonstrate the volume relationship. This set consists of cone, cylinder, cube, square pyramid and a sphere.

Note : Additional 3D solids are also available on Page No.-18

# Geometry



Size  
 Cube : 10cm x 10cm x 10cm  
 Cuboid : 10cm x 5cm x 15cm  
 Cone : 21.5cm (Ht.) x 10cm (Dia.)  
 Cylinder : 17.8cm (Ht.) x 10cm (Dia.)  
 Sphere : 12.7cm (Dia.)  
 Set of 5 Pcs. with Wire

## Transparent Figure Set

**GM 410** These enormous size transparent solids set are good for demonstration. This set consists of Cube (holes on two vertices to insert wire to show diagonal of 3D figures), Cuboids, Cone (hole on top to insert wire to show difference between slant height and lateral height), Cylinder and two Hemispheres.



Size : 10cm x 10cm

## Volume Relation Between Cube & Sphere

**GM 411** This transparent cube comes with transparent sphere of diameter 13 cm. Outer diameter of sphere and inner dimension of cube is same. A useful manipulative for understanding the volume and mass calculation and to demonstrate complex combination of solid figure.



Size : 12cm x 12cm

## Formation of Tetrahedron

**GM 412** To understand formation of Tetrahedron with the help of section of plastic cube. This section model of cube demonstrates the construction of tetrahedron through midpoint of their sides.



Set of 14 Nets of 7 Different Shapes

## 3D Paper Nets

**GM 413** A net is folded to build the 3D shape. It helps a child to relate 2D representation with its corresponding 3D shape through hands-on experience. It also gives an intuitive idea to derive formulae for surface areas of solids.



Size : Height 7.6cm x Base 3.8cm  
 Set of 12 Pcs. with 3D Nets.

## Polyhedron & Their Nets

**GM 414** A perfect resource to investigate their shapes, faces, vertices, edges, curves and angles with these 12 pieces set of plastic 3D shapes and their Nets. It is used to learn geometry and mensuration facts and formulae.

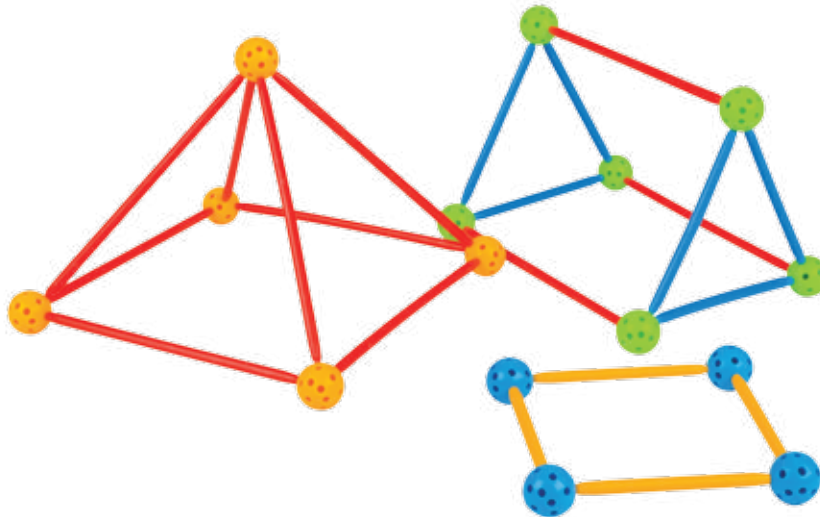
# Geometry



Size : 10cm x 10cm  
Set of 2 Pcs. with Lid

## Volume Relation Between Cone & Cylinder

**GM 415** Best resource to demonstrate volume relationship between cone and cylinder of same base and same height.



3.3cm



5.3cm



6.9cm



8.2cm



10.5cm



12.5cm



Diameter 19mm  
26 Holes



Set of 330 Pcs.  
Total No. of Balls 80 Pcs. in 4 Colours  
Total No. of Rods 250 Pcs. in 6 Length & 4 Colours

## Vertex Wonder

**GM 416** Vertex Wonder set consists of linking rods and vertex ball, which is designed to understand the concept of edges and vertices, being creative by constructing different models, building different 3D shapes that help children to analyse the difference between Pyramid and Prism.

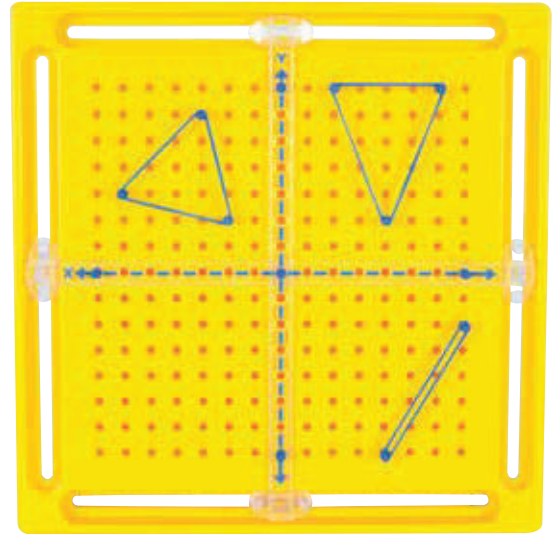
# Geometry

Geoboards were invented and popularized in the 1950s by Egyptian mathematician Caleb Gattegno (1911-1988). A geoboard is a mathematical resource used to explore basic concepts in plane geometry such as properties of triangles and other polygons, angles, symmetry and patterns, area and perimeter etc. It consists of a plastic board with a certain number of pegs half driven in, around which are wrapped rubber bands.

Size : 25cm x 25cm

## X-Y Axes Co-ordinate Geoboard

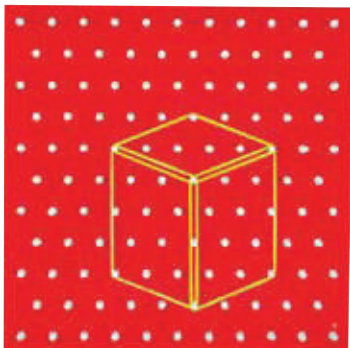
**GM 417** This geoboard has a sliding X and Y axis along with 50 pegs that makes coordinate graphing easy to understand. The pegs can be used to locate points in one or all four quadrants and show various geometric concepts such as equation of a line, slope and a mid-point of a line, translations, rotations, representing data in a bar or line graph, functions with the help of rubber bands.



Size : 23cm x 23cm

## Transparent Geoboard

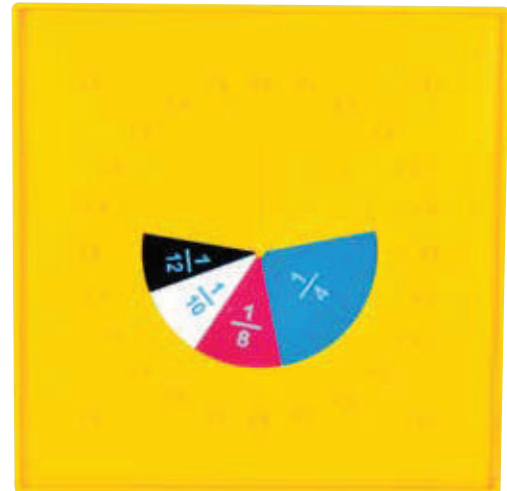
**GM 418** An 11x 11 grid of pegs on transparent Geoboard with rubber bands can also be used on overhead projector or to trace a polygon given in book with rubber bands.



Size : 20cm x 20cm

## Isometric Geoboard

**GM 420** Isometric Geoboard is an ideal for helping children to develop spatial visualization skill by imagining and creating fascinating 3D Shapes on the board with the help of rubber bands.



Size : 20cm x 20cm  
Set of Plastic Circular  
Fractions Cuts up to 1/12

## Flip n Fraction Geoboard with Circle Cuts

**GM 419** Flip n Fraction Geoboard is a versatile resource that can be used on both the sides. It has square geoboard on one side and circular geoboard on other side. The circular fractions cut outs are used in circular tray to explore concepts related to fractions.



# Geometry



Size : 20cm x 20cm

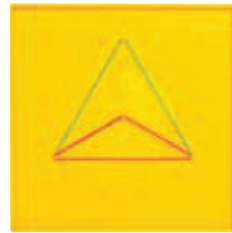
## Circular Geoboard

**GM 421** Circular Geoboard has 24 numbers of equally spaced peg arranged on two different circumferences of a circle and one peg at the center. It is used to draw the various geometrical shapes and to explore the circle related theorems with the help of rubber bands.

New

Side - A

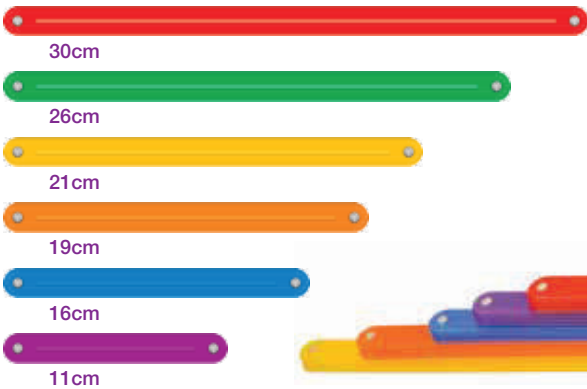
Side - B



Size : 20cm x 20cm

## Double Sided Geoboard

**GM 422** This double-sided geoboard with 11 x 11 pin grid arrangement on one side and a 24-pin circular pattern on the other side. This geoboard is primarily used in the exploration and recognition of shapes, designs, spatial relationship, angles, fractions, area, perimeter, symmetry and coordinates with the help of rubber bands.

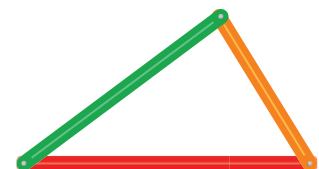
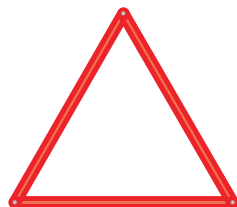


Set of 24 Magnetic Sticks in 6 Different Lengths and Colours

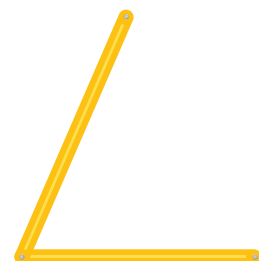
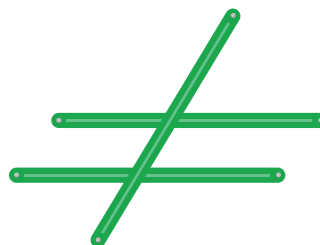
## Geo Geometry Sticks

**GM 423** Geo Geometry Sticks can easily snap together to motivate learners to explore plane geometry on their desk or on magnetic board. Learners will discover and analyse the creation of polygons using the same length sticks versus different length stick, investigate triangle inequality theorem, mid-point theorem, concept of angles etc.

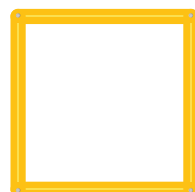
### Triangles



### Angles




### Quadrilaterals



Explore geometric concepts with Geometry Sticks

# Geometry



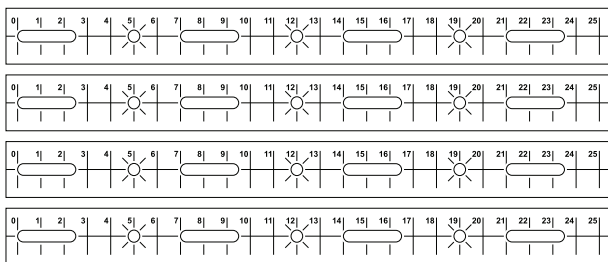
**Size : 23cm x 1.5cm**  
**Set of 7 Sticks with Full Protector**

**Geometry Kit**  
**GM 424** Seven Plastic sticks having 5 holes on equal distance. Sticks can be joined with screw provided in the kit. It helps to investigate properties of parallel lines and transversal and their angle relationship.

## Multipurpose Geo Sticks

These transparent plastic strips with measure 260 mm x 20 mm having different slots and holes to make different angles and shapes. This manipulative is versatile and can be used according to the subject requirements.

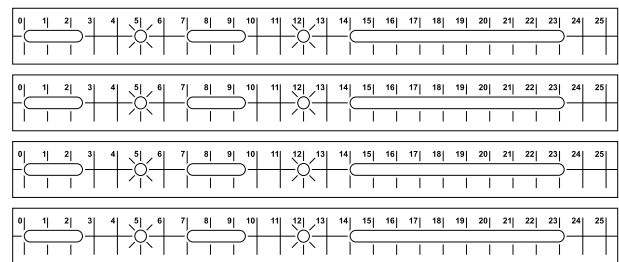
Each type of set includes 4 sticks



### Geo Sticks Type 1

**GM 425** Plastic Sticks having 3 holes of diameter 5 mm at a distance of 50 mm and 190 mm from one end. 4 slots 125 x 5 mm with both ends rounded to semi-circle.

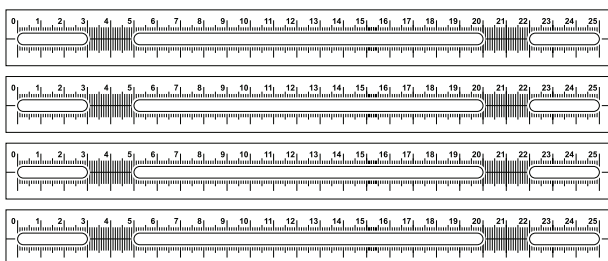
Location of Slots :	
1st Slot	0 - 25 mm
2nd Slot	70 - 95 mm
3rd Slot	140 - 165 mm
4th Slot	210 - 235 mm



### Geo Sticks Type 2

**GM 426** Plastic Sticks having 2 holes of diameter 5 mm at a distance of 50 mm and 120 mm from one end. 3 slots 125 x 5 mm with both ends rounded to semi-circle.

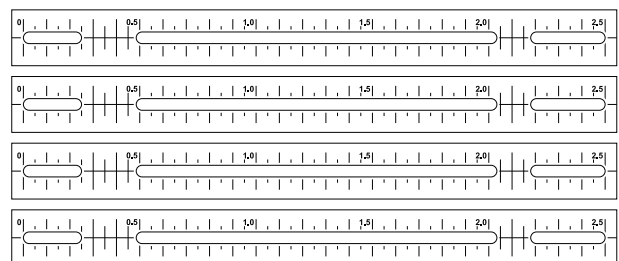
Location of Slots :	
1st Slot	0 - 25 mm
2nd Slot	70 - 95 mm
3rd Slot	140 - 235 mm



### Geo Sticks Type 3

**GM 427** Plastic Sticks having 3 slots of diameter 5 mm at a distance.

Location of Slots :	
1st Slot	0 - 30 mm
2nd Slot	50 - 200 mm
3rd Slot	220 - 250 mm

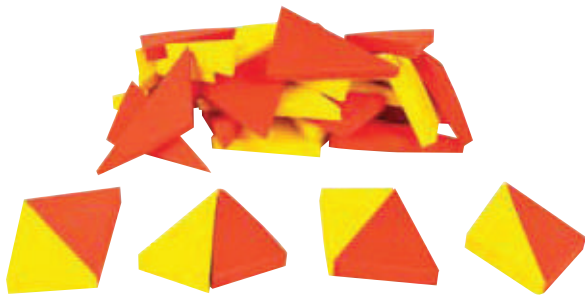


### Geo Sticks Type 4

**GM 428** Plastic Sticks having 3 slots of diameter 5 mm at a distance.

Location of Slots :	
1st Slot	0 - 0.3 mm
2nd Slot	0.5 - 2.0 mm
3rd Slot	2.2 - 2.5 mm
4th Slot	210 - 235 mm

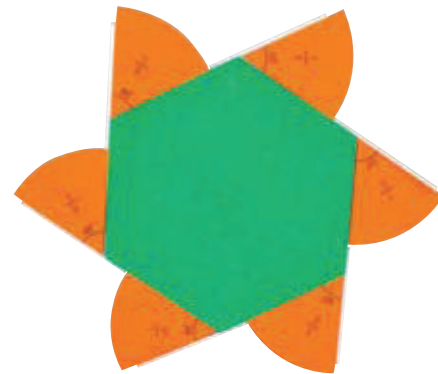
# Geometry



Set of 60 Pcs.

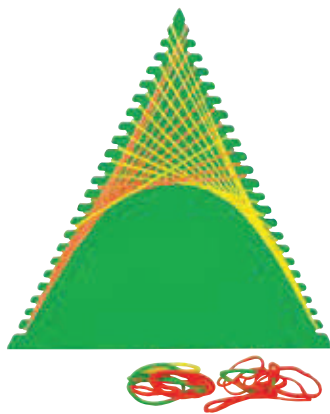
## Triangle Kit

**GM 429** Allow children to learn about the classification and congruency of triangles according to sides and angle with the help of this kit. This kit consists of 5 different type of congruent triangles.



## Exterior Angle of Regular Polygon

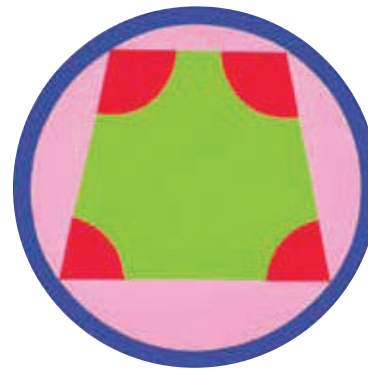
**GM 430** This equipment is used to demonstrate the sum of exterior angle of a regular polygon is  $360^\circ$ . A regular hexagon with extended arms to make exterior angle and set of angles cut outs according to the polygon.



Size : 19cm x 20cm  
Total No. of Slots in  
Plate is 24 on each side

## Construction of Parabola

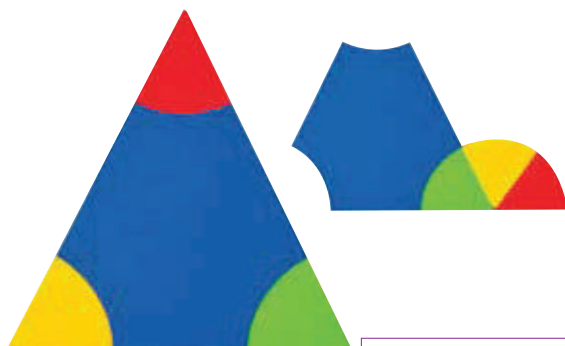
**GM 431** Plastic triangular plate with equally marked slots of division are joined together with the help of rubber bands to construct Parabola.



Diameter : 21cm

## Angle Property of Cyclic Quadrilateral

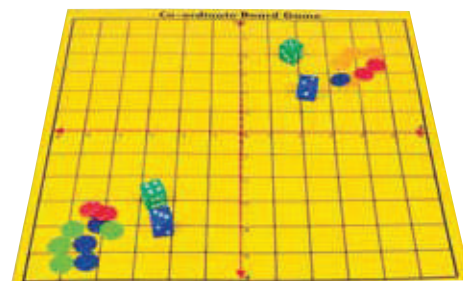
**GM 432** A foam resource, to be used individually or in small groups, to investigate that the opposite angles of a cyclic quadrilateral are supplementary.



Size : 21.5cm x 21.5cm

## Angle Sum Property of Triangle

**GM 433** This resource includes a triangle with cut outs of its interior angles. This resource allows child to investigate angle sum property of triangle and relation between interior and exterior angles of a triangle. It can be used to demonstrate on magnetic board also.



Size : 38cm x 38cm  
Set of 4 Dice with 50 Counters

## Co-ordinate Board

**GM 434** This board game makes learning of coordinate geometry fun and easy. A very common task in math class is to plot and name points on four quadrants of a graph. We offer coordinate board game with colour counters and dice to explore the plotting of coordinates and naming their respective points.

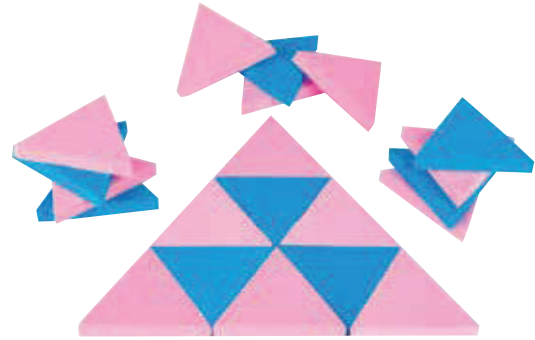
# Geometry



Size : 26cm x 18cm

## Angle Sum Property of Quadrilateral

**GM 435** This resource includes a quadrilateral with cut outs of its interior angles. This resource allows child to investigate angle sum property of quadrilateral. It can be used to demonstrate on magnetic board also.



Size : 7.5cm x 7.5cm x 7.5cm  
Set of 32 Pcs. in 2 Colours

## Ratio of Area of Similar Triangles

**GM 436** A resource to verify that the ratio of the areas of two similar triangles is equal to the ratio of the square of their corresponding sides.

New

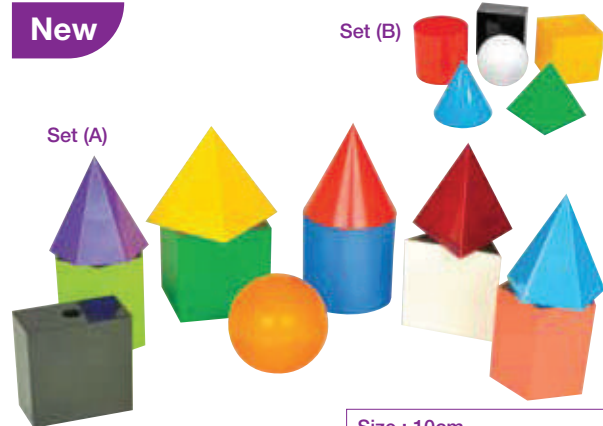


Size : 5cm  
Set of 12 Pcs. with Folding Nets

## Folding Geo Solid

**GM 437** This resource allows children to connect 3D solids with its 2D representation, and to deduce formulae for surface areas and volumes.

New

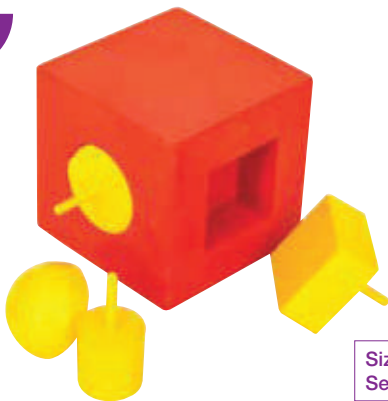


Size : 10cm  
Set (A) of 12 Pcs. with Lid  
Set (B) of 6 Pcs. with Lid

## 3D Colour Solid Set 10cm

GM 438

New

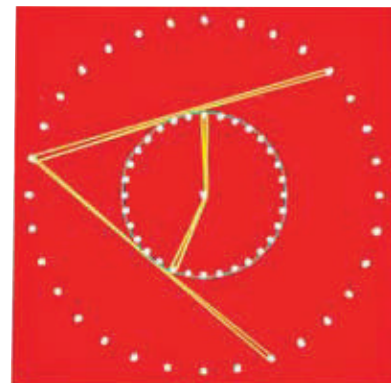


Size : 5cm  
Set of 5 Pcs.

## Mensuration Cube

**GM 439** 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.

New



Size : 24cm x 24cm

## Tangent Geoboard

**GM 440** This geoboard is used to investigate the concepts related to circles and tangents with the help of rubber bands.

# Geometry

New

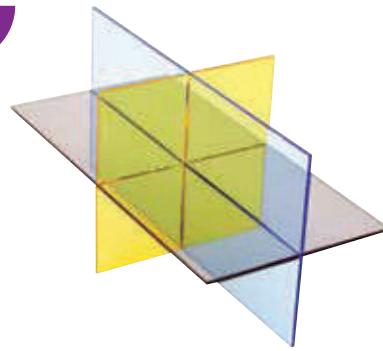


Size : Height 15cm  
Diameter : 9cm  
Set of 8 Pcs.

## Cylinder Cuts in Eight Parts

**GM 441** Use this resource to obtain the formula for volume of a right circular cylinder in terms of its length and base radius.

New



Size : 30cm x 15cm x 15cm

## Octant 3D

**GM 442** An octant 3D in solid geometry is one of the eight divisions of a Euclidean three-dimensional coordinate system defined by the signs of the coordinates. It is same as the two-dimensional quadrant and the one-dimensional ray.

New

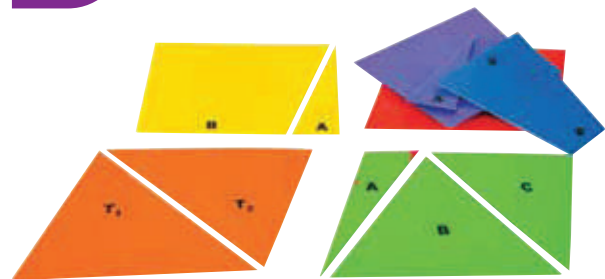


Size : Base 16cm, Height 24cm

## Perpendicular Line Segment is Shortest Path

**GM 443** A useful resource to investigate that the shortest distance is the perpendicular line segment.

New

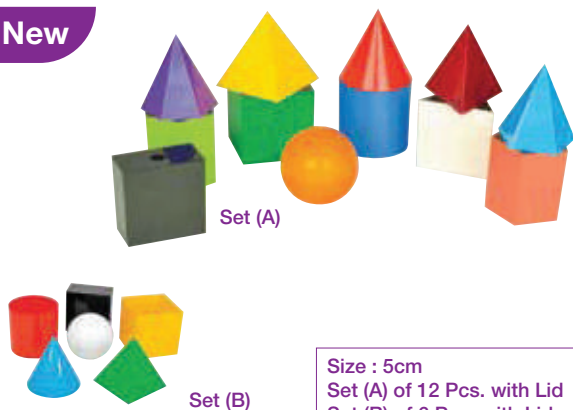


Size : 17cm x 13cm  
Set of 6 Parallelogram in 6 Colours

## Parallelogram Kit

**GM 444** A very useful resource to classify parallelograms and investigate properties and theorems related to parallelogram

New



Size : 5cm  
Set (A) of 12 Pcs. with Lid  
Set (B) of 6 Pcs. with Lid

## 3D Colour Solid Set 5cm

**GM 445** A useful resource to investigate shapes, faces, vertices, edges, curves and angle with this 12 pieces set of opaque plastic solids.

New



Diameter : 28cm  
Set of 16 Pcs. in 2 Colours

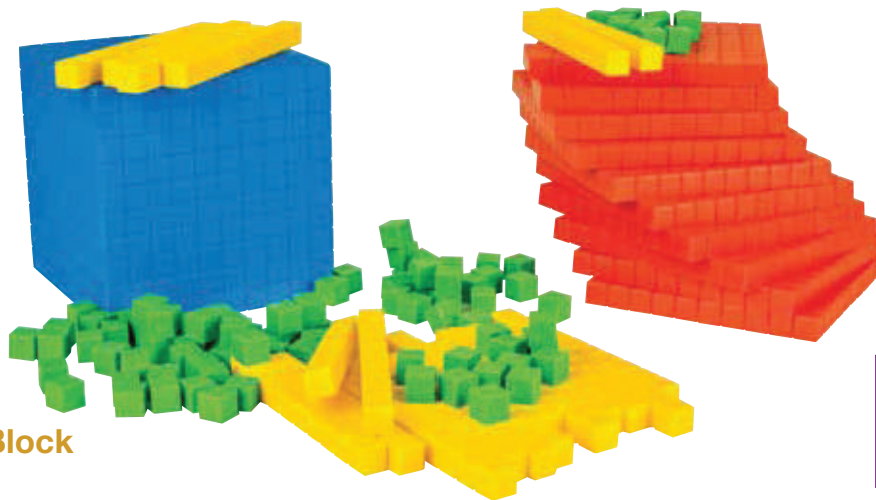
## Area of a Circle

**GM 446** A very useful resource to derive the formula for finding area of a circle.

# Base Ten Blocks

## Introduction:

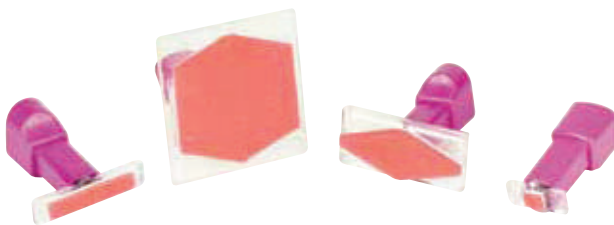
Base Ten Blocks is one of the versatile and an important manipulative, which helps in laying the foundation of the number sense. It is one of the best resource to understand the abstract base-ten concept which is base of our decimal number system. Children learn Math concept faster and for longer duration when they have concrete experiences. Place Value is a very basic concept of mathematics which can be introduced and explored best with base ten blocks. It provides hands-on experiences to explore the concept of place value, and math operation of addition, subtraction, multiplication and division as well as concept of mensuration and decimals. Base Ten manipulative consist of units (ones), rod or long (equivalent to 10 units (tens)), flats (equivalent to 100 cubes (hundreds)) and  $10 \times 10 \times 10$  cm cube (Thousand cube).



## Base Ten Block

BT 500

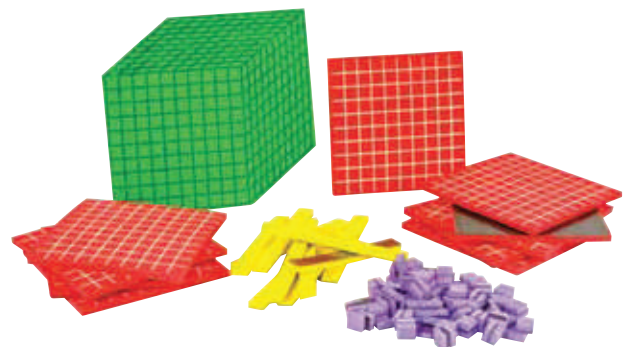
Set of 131 Pcs.  
Units : 100 Pcs.  
Tens Rods : 20 Pcs.  
Hundreds Flats : 10 Pcs.  
Thousand Cube : 1 Pc.



Set of 4 Pcs.

## Base Ten Stamp Set

**BT 501** These are replicas of Base 10 blocks in 2-dimensions. It is great tool for teacher to make worksheets of related concepts.



Set of 121 Pcs.  
Units : 100 Pcs., Tens Rods : 10 Pcs.,  
Hundreds Flats : 10 Pcs., Thousand Cube : 1 Pc.  
(Two-Dimensional Representation of Each)

## Magnetic Base Ten Blocks

BT 502



Set of 524 Pcs.  
Units : 400 Pcs., Tens Rods : 80 Pcs.  
Hundreds Flats : 40 Pcs., Thousand Cube : 4 Pcs.

## Classroom Base Ten Set

BT 503



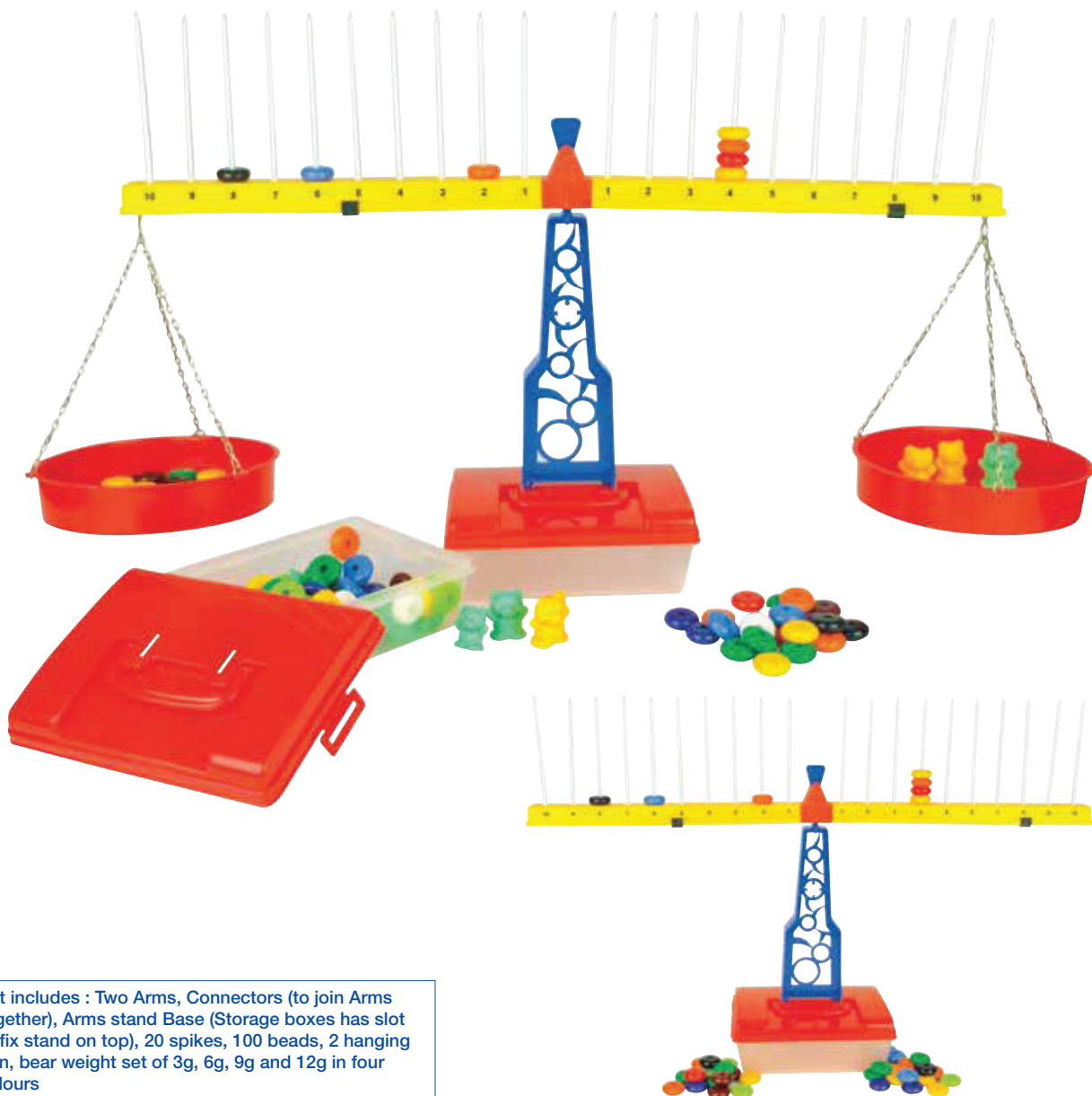
# Number Sense

## Introduction:

Number sense is an important pillar because it encourages students to think flexibly and promotes confidence with numbers. The child gradually develops sense of what numbers mean, understands their relationship to one another, can perform mental math, understands symbolic representations, and can use those numbers in real world situations. In her book, *About Teaching Mathematics*, Marilyn Burns describes students with a strong number sense in the following way: “[They] can think and reason flexibly with numbers, use numbers to solve problems, spot unreasonable answers, understand how numbers can be taken apart and put together in different ways, see connections among operations, figure mentally, and make reasonable estimates.” To help child developing number sense, these resources can contribute a lot in taking child from concrete to abstract.

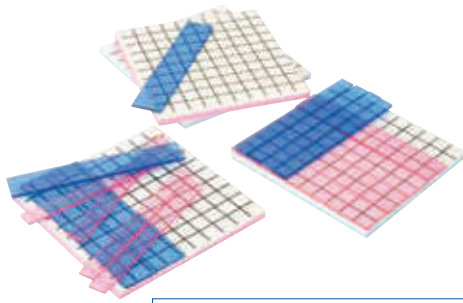
## Number Planet

**NB 600** Let child explore this number planet in Math lab or in classroom to investigate number concepts. It is used to introduce number relationships and number operations, value comparisons and pre-algebra concepts. This manipulative is so versatile that you can use this as Number balance, Pan balance, Spick abacus and frame counting abacus. This balance is provided with assorted plastic beads, spikes, two pans with hanger, weight set, plastic stand, connector and base.



Set includes : Two Arms, Connectors (to join Arms together), Arms stand Base (Storage boxes has slot to fix stand on top), 20 spikes, 100 beads, 2 hanging pan, bear weight set of 3g, 6g, 9g and 12g in four colours

# Number Sense



Set of 20 Pcs.  
 Hundred Plates : 4 Pcs. (10cm x 10cm)  
 2 Tenths Strips : 8 Pcs. (10cm x 2cm)  
 1 Tenth Strips : 8 Pcs. (10cm x 1cm)

## Decimal Kit

**NB 601** This resource can be used to learn basics of decimal numbers and investigate mathematical operations of decimal numbers with the help of grid printed square plates and some plastics strips.



Size : 25cm x 2.5cm each Strips  
 Set of 58 Pcs.

## Cuisenaire Strips

**NB 602** Cuisenaire Strip is a collection of rectangular rods, each sized rod in a distinct colours with duly printed number on it. It helps to demonstrate LCM, HCF, Equivalent fractions, addition, subtraction and so on.



Size : 23cm x 23cm

## Power of 2

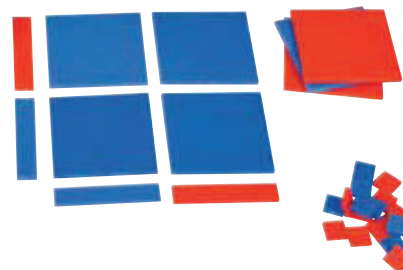
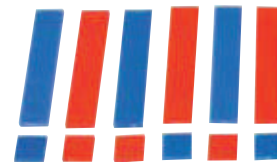
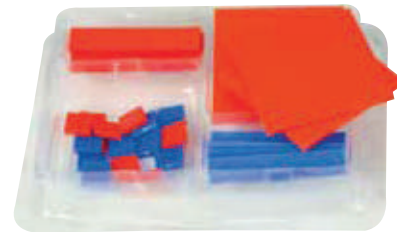
**NB 603** This tools is consist with a board and 100 Pcs. of 4 colours beads. This product is used to investigate square numbers and triangular numbers.






Diameter : 1.8cm  
 Set of 100 Pcs.



## Integer Counters

**NB 605** Children of middle classes keep struggling with integers. Double-sided integer counters are very useful to learn concepts of integers such as addition, subtraction, multiplication and division of integer numbers.



Size : 5cm x 5cm  
 5 Pcs.  
 5 Pcs.

Size : 1cm x 5cm  
 10 Pcs.  
 10 Pcs.

Size : 1cm x 1cm  
 20 Pcs.  
 20 Pcs.

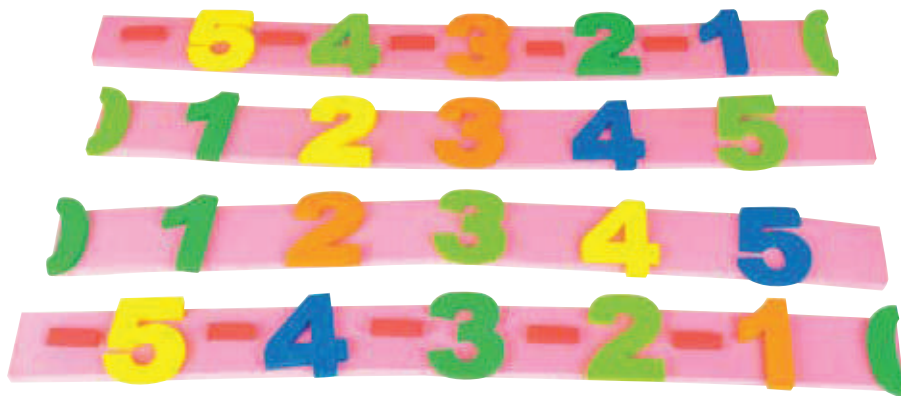
Set of 70 Pcs.

## Factorization Tiles

**NB 604** These opaque plastic tiles in two colours helps to model number operations on integers and algebra concepts.



# Number Sense



Size : 60cm x 5cm  
Set of 4 Pcs.

## Integer Number Line Bar

**NB 606** Hands-on learning of integers on number line is more fun with this Integer Number Line Bar. This number line represents from 0 to 5 & 0 to - 5 with magnet at the back for easy demonstration on magnetic board. Children will investigate positive and negative integer on the number line and identify opposites of integers. They can also perform basic addition and subtraction on this.



Size : 21cm x 23cm

## Hook n Look Numerical Balance

**NB 607** Hook the numbers to compare which one is greater or smaller, balance it using simple addition. It promotes child to learn basic addition and explore different combinations of a number on their own.



Teacher Demo Tile Size : 10 cm x 10 cm - 14 Pcs.  
Student Activity Tiles Size : 2 cm x 2 cm - 270 Pcs.

## Roman Numbers Kit

**NB 608** Roman Numbers Kit consists of square tiles with Roman number printed on them. Manipulate these tiles to represent any number in Roman. This set is provided with printed Roman numerical on small tiles for children and big magnetic tiles for teacher demonstration

# Shapes & Patterns







## Introduction:

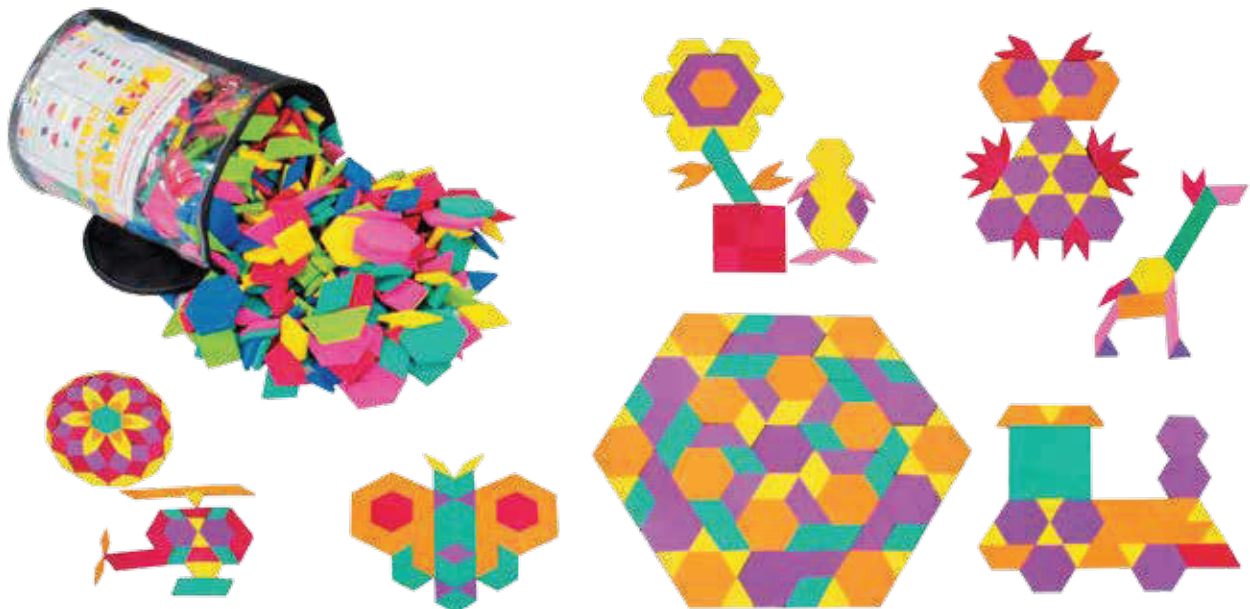
Shapes and Patterns are pillars of Mathematics. Pattern Blocks are a type of mathematical manipulative which include different shapes, developed in the sixties by the elementary Math Studies. They allow children to see how shapes can be composed or decomposed into other shapes. Pattern blocks are shapes that elementary school children use to build patterns, learn problem-solving and explore basic algebra. Pattern blocks are not only just for mathematics, they can also be used to build pictures including animals, flowers, boat, ships, rocket, planes, cars, etc. Study of patterns helps in analytical thinking development and lays foundation for algebra.

## Tessellation Kit

PB 700

Set of 864 Pcs.

Hexagons	Squares	Equ. Triangles	Trapezoids	Small Rhombus	Big Rhombus
					
36 Pcs.	216 Pcs.	216 Pcs.	72 Pcs.	108 Pcs.	216 Pcs.



Set of 250 Pcs.

## Pattern Block (Plastic)

**PB 701** These Pattern Blocks consist of 25 hexagon, 25 squares, 50 equilateral triangles, 50 trapezoids, 50 big rhombuses and 50 small rhombuses.



## Pattern Making Triangle

**PB 702** This set consists of right triangles of 3 different dimension and 3 different colours too. This resource can be used to understand and develop the skills of combining triangles to make different shapes, exploring patterns and tessellations.

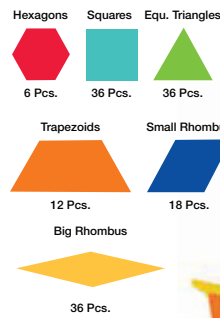
# Shapes & Patterns



Size : 12cm x 12cm  
Set of 7 Pcs. of Tangram in 4 Colours. Total 28 Pcs.

## Tangram

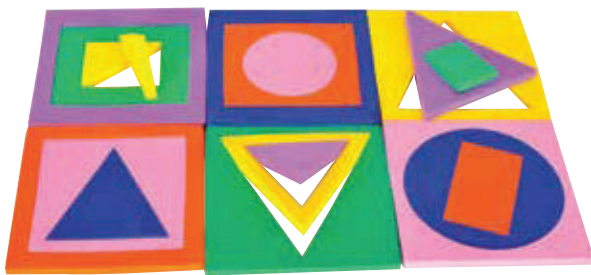
**PB 703** Tangram are a set of seven different shapes. Among these seven shapes are five triangles, a square and a parallelogram. Among the triangle, there are two large triangles, one medium triangle, and two small triangles. Each of the triangles is a right triangle.



Set of 144 Pcs. of 6 Shapes in 6 Colours

## Pattern Block (Student Set)

**PB 704**



Size : 12cm x 12cm

## Sit & Set

**PB 705** To help children understand the basic flat shapes and their various geometric combination. This set is provided with combination of 6 flat shapes in a reusable box. This kit also helps in developing eye-hand coordination and motor skill development. Being a puzzle it also promotes cognitive development.



Set of 200 Pcs. in 5 colours

## Fraction Pattern Blocks

**PB 706** This will be so fun to explore fractions with this kit. This colourful kit includes different shapes to explore different fractions concepts.



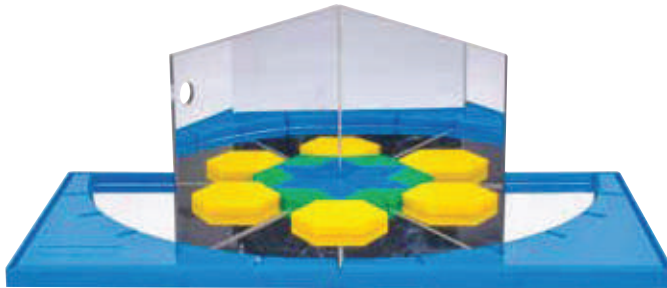
Set of 60 Pcs.

## Pentominoes

**PB 707** Pentominoes is a famous puzzle, that are made from 5 identical squares, fixed together at their edges. There are at least five good reasons to incorporate pentominoes in the classroom. Pentominoes nurture a non-anxious attitude toward mathematics and science, promote an atmosphere of cooperation, support development of the problem-solving process, provide spatial-ability skill exercises, and introduce children to elementary number theory. In the pentominoes puzzle game, players must rotate and fit them into a grid so the shapes interlock and the finished grid has no empty space. Pentominoes can also be used to examine the concepts of congruence, similarity, transformations (flips, turns, slides), tessellations, perimeter, area etc.

# Shapes & Patterns

New



Look through the hole in the mirror and explore infinity!

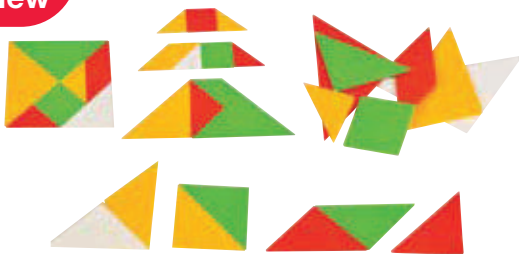


Set includes 3 vertical acrylic mirrors, one semi-circular horizontal acrylic mirror, wooden frame with degree graduation, 30 pattern blocks, and 64 x 2 activity cards.

## Symmetry Kit

**PB 708** The Symmetry kit stimulates the child's imagination and allow them to explore symmetry and reflection with their creative designs. They will also want to look through the mirrors and see their own multi image reflection.

New

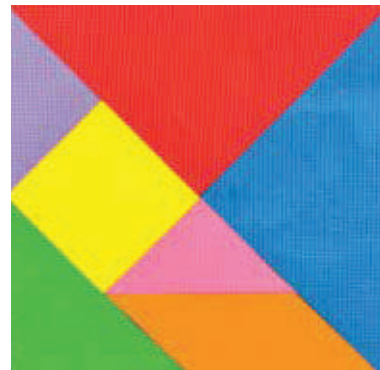


Size : 12.5cm x 12.5cm  
Set of 7 Pcs. of Tangram in 4 Colours. Total 28 Pcs.

## Tangram Plastic

**PB 709** Tangram is a set of seven different shapes. Among these seven shapes are five triangles, a square, and a parallelogram. Among the triangle, there are two large triangles, one medium triangle, and two small triangles. Each of the triangles is a right triangle.

New



Size : 21cm x 21cm  
Set of 7 Pcs. of Tangram

## Magnetic Tangram

**PB 710** Magnetic Tangram is a perfect tool for classroom demonstration.

# Cubes

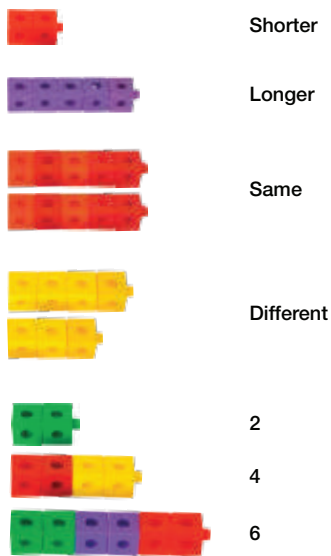
## Introduction:

Interlocking Cubes and Linking Cubes provide mathematical learning experiences to develop the concept of counting, sorting, place value, number operations, measurement, patterns, algebra and mensuration. Easy to connect from all sides also supports motor skill development of toddlers. These cubes are a versatile tool for all levels of learning and proficiency in the classroom.

Size : 2cm x 2cm x 2cm  
Set of 625 Pcs. in 5 Colours

## Interlocking Cubes

**CB 800** Easy to connect on all sides, these interlocking 2cm cubes comes in 5 bright colours.



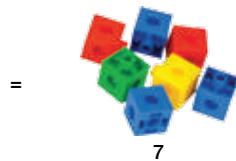
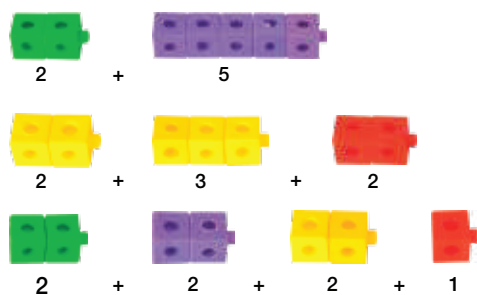
Count by 2



Count by 3



Measurement



Patterning

# Cubes

New



Size : 1.5cm x 1.5cm x 1.5cm  
 Set (A) of 100 Pcs. in 2 Colours  
 Set (B) of 500 Pcs. in 5 Colours  
 Set (C) of 1000 Pcs. in 10 Colours

## Linking Cubes

**CB 801** Easy to connect from all sides, these plastic 1.5 cm linking cubes in 10 colours come in a reusable pouch.



Size : 2cm x 2cm x 2cm  
 Set of 64 Pcs. in Single Colour

## Interlocking Cubes

**CB 802**



Size : 2cm x 2cm x 2cm  
 Set of 128 Pcs. in 2 Colours

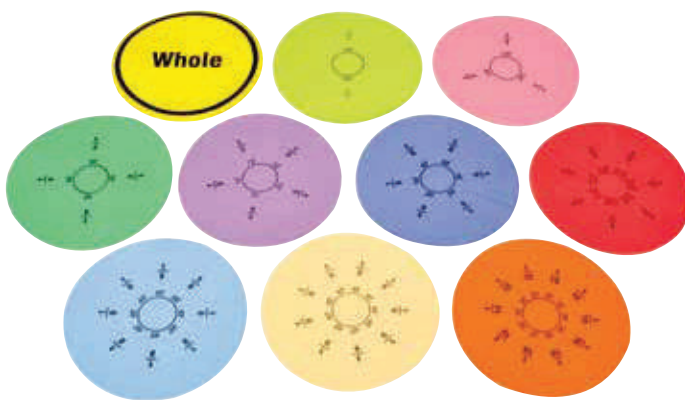
## Interlocking Cubes

**CB 803**

# Fractions

## Introduction

Learning fractions have always been a struggle for most of the children, though it is an important concept which also lay the foundation for decimal, percentages and many other concepts. Providing exposure of fraction with the manipulatives which allows a child to explore parts of different shapes helps in laying the strong foundation of fractions. Fractions manipulatives are an excellent learning tool. Children usually get confused in comparing fractions, these resources allow the child to concretely compare the parts and visually observe the difference. They can easily establish that one-third is larger than one-fourth and that five-fifths is the same as one whole and so on.



Diameter : 16.5 cm  
Set of 55 Fractions Pcs. from  $1/2$  to  $1/10$  including a whole with Magnetic Plate.

## Magnetic Fraction Disks

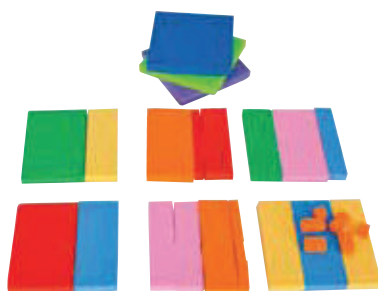
**FT 900** Children have fun learning fraction with this hands-on fraction math manipulative perfect for games and activities. These colourful, soft foam magnetic fraction circles are simple to use and fun to teach a child about fractions and their concepts. The easy to grip colour coded pieces allow the child to see, feel and compare equivalent fraction.



Diameter : 16.5 cm  
Set of 55 Fractions Pcs. from  $1/2$  to  $1/10$  including a whole.

## Non Magnetic Fraction Disks

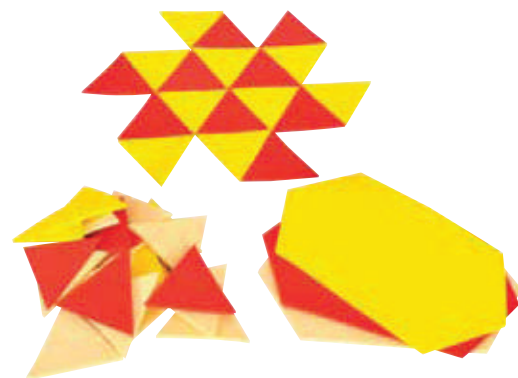
**FT 901**



Size : 10cm x 10cm  
Set of 9 Pcs.

## Fraction Squares

**FT 902** Fraction square is very useful math manipulative to learn fractions, percentages, and decimals. Using fraction square is an effective way of introducing or reviewing the concept of square fraction. One of the best resource to explore the relationship between fractions, decimals, and percentages.

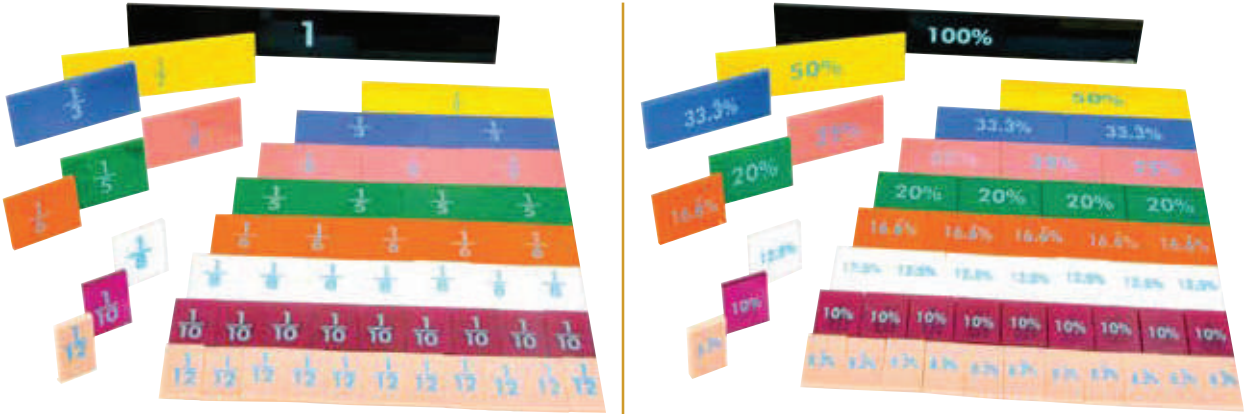


Set of 72 Pcs. of Equilateral Triangles in 3 Colours

## Designer Fractions

**FT 903** This resource allows students to explore fractions as a part of a collection. This manipulative also helps to develop and design different type of tessellations using only triangles.

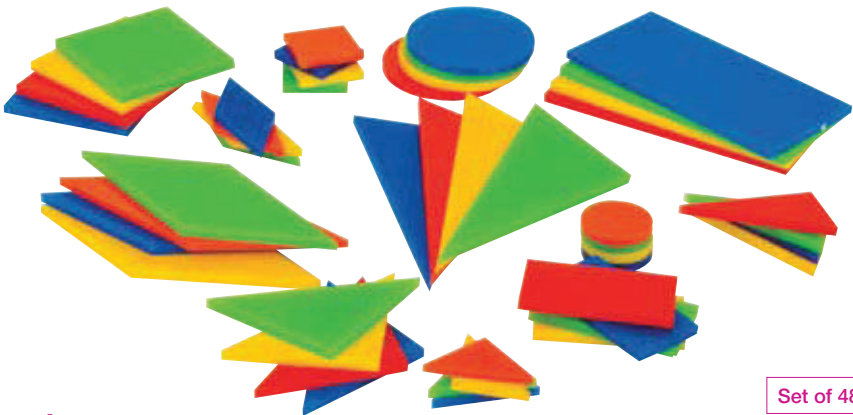
# Fractions



**Fraction Bar**

**FT 904** Set of colourful Fraction Bars comes in a plastic Box. The total of 51 solid plastic bars represents a whole, halves, thirds, fourths, fifths, sixths, eighths, tenths and twelfths. The fractional value appears on the one side of the bars and their percentages on the other side. Fraction bars is a fun way to concepts related to fractions and percentages.


Size : 19cm x 25cm  
Set of 51 Pcs. varying from whole to 1/12th.



**Phases of Fraction**

**FT 905** This set is very useful math manipulative to learn fraction, percentage, decimals, area, perimeter of different shapes and there relation. Using this set is an effective way of introducing or reviewing the concept of fraction. This set is provided with different fraction of rectangle and square.


Set of 48 Pcs. in Multicolours



**Fraction Wheel**

**FT 906** These are fraction circles cut outs with diameter 10 cm includes fraction up to 1/10, duly packed in plastic container. Suitable for individual /small group activity for fractions.

Diameter : 10cm  
Set of 10 Pcs.



**New**

**Magnetic Fraction Wheel**

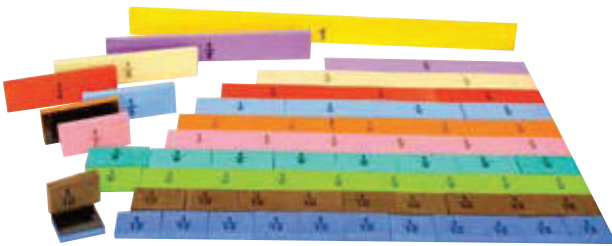
**FT 907** A set of 51 proportionally-sized pieces representing a whole, halves, thirds, quarters, fifths, sixths, eighths, tenths & twelfths in 9 distinct colours with printing on each piece.

Diameter : 10cm  
Set of 9 Pcs.



# Fractions

New



Diameter : 14cm  
Set of 6 Pcs.

## Magnetic Fraction Bar

**FT 908** A perfect tool for classroom demonstration. The large size magnetic fraction bars make it easy for a teacher to demonstrate different conceptual activities and generalize the results. These are the fun way to teach the meaning of fraction, explore equivalence, comparison, and different operations.

New

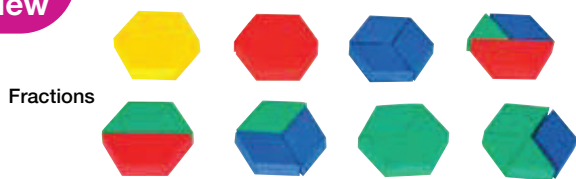


Size : 21cm  
Set of 17 Shapes with 20 Dices, 20 Pegs, 20 Cards

## Fractions in Shapes

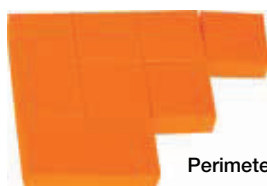
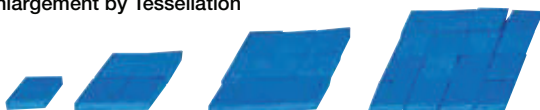
**FT 909** A set of hands-on components to enable children to find the fraction of a given quantity for example  $\frac{2}{5}$  of 20. It uses foam shapes, pegs, dice and cards to break down the process into manageable stages so that children understand exactly what is happening. The set was produced in conjunction with practising teachers who developed this highly successful method in the classroom.

New



Fractions

Enlargement by Tessellation



Perimeter and Area



Spatial Problem Solving



Learn Geometry Concepts  
Flip, slide and turn by filling space



Line Symmetry



Rotational Symmetry



Tessellation  
Fitting together without Gaps



Size : 1cm Thick  
Set of 250 Pcs.

## Pattern Block (EVA)

**FT 910** Pattern Blocks are an extremely versatile manipulative that may be used to develop a range of mathematical concepts like symmetry, fractions, Spatial Problem Solving, Geometry and Tessellation. These Pattern Blocks consist of 25 Hexagons, 25 Square, 50 Equilateral Triangles, 50 Trapezoids, 50 Small Rhombuses, and 50 Big Rhombuses.

# Circle

## Introduction:

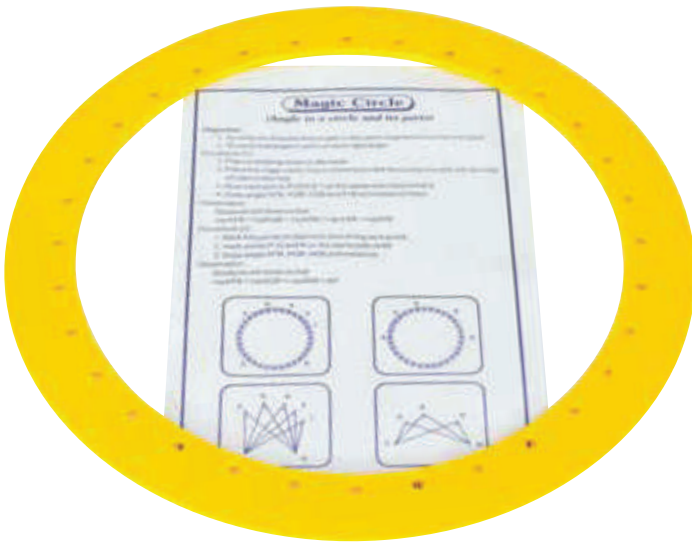
Circle is a type of line forming a closed loop, every point on which is at a fixed distance from a center point. Imagine a straight line segment that is bent around until its ends join. To understand circle in a better way, there are some resources using those children can perform different activities to investigate different concepts related to circles.



Diameter : 15cm, 10cm, 5cm  
Set of 3 Circles in 3 Colours

## Circle Kit

**CL 1000** Circle Kit is provided with a set of three circular discs having the different radius. This kit helps to understand the relationship between the radius, diameter, and their circumference. By this kit, a child can explore the concept of circles, concentric circles, circumference of circle and derivation of Pi.



Outer Diameter : 25cm  
Inner Diameter : 20cm

## Magic Ring

**CL 1001** Magic Ring is a circular plastic ring with outer diameter 25 cm and inner diameter 20 cm having holes on a certain distance. The total number of holes on its periphery is 32. This manipulative is designed to investigate concepts related to a circle, and exploring the area of the ring by placing it on drawing sheet or on the white board.



Diameter : 28cm  
Set of 16 Pcs. in 2 Colours

## Derivation of Pi

**CL 1002** It is used to derive the formula for area of circle.



Diameter : 25cm

## Ring of Theorem

**CL 1003** Ring of theorem is used to investigate the properties and theorems related to circle such as sum of opposite angles of a cyclic quadrilateral is supplementary, angle in a semicircle is a right angle; angles in the same segment of a circle are equal etc. This manipulative is provided with rubber band and reusable storage box.

# Measurement

## Introduction:

Measurement Resources explores procedures for measuring and learning about standard units in the metric system, the relationships among units, and the approximate nature of measurement. These resources help you to measure or compare different lengths, weights or capacity. Measurement is the process or the result of determining the ratio of a physical quantity, such as Length, Weight, Volume, Temperature etc. to a unit measurement, such as the metre, grams, millilitres or degree Celsius etc. These tools allow you to explore relationship among different units. The science of measurements is called metrology.



Length : 1 Meter

## Measuring Tape

MM 2001

## Metric Wheel

**MM 2003** Now it's easy to measure long distances using metric wheel. This half meter (50 cm) circumference wheel attached to the durable plastic rod duly covered with rubber grip. Children will find it easier to measure longer distances with these sturdy plastic Metric Wheel. Each time the wheel completes one revolution, it completes half meter length. This wheel is having non-slip rubber tyre for more accurate reading.



Length : 76cm  
Circumference of Wheel 50cm



Length : 15 Meter

## Measuring Tape

**MM 2000** Measuring tapes are used to measure length of different objects or distances. Children can estimate lengths and verify their estimation using these tapes.



Length : 3 Meter

## Measuring Tape

MM 2002



## Vernier Calliper

**MM 2004** When highly accurate measurements are needed, Vernier Calliper refines the accuracy of the measurements.



Length : 1 Meter

## Folding Meter Stick

**MM 2005** This folding meter sticks folds into fourth on three hinges for easy storage. Calibrated in metric units and enable us to measure length of any object. Metric rulers only deal with centimetres and millimetres. Inches are a part of the customary system which is not included in this stick.

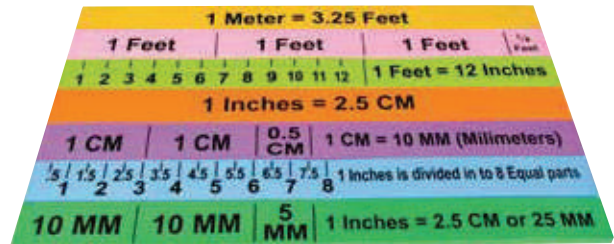
# Measurement



Length : 50cm

## Half Meter Scale (Wooden)

**MM 2006** To measure any length up to half a metre, this half meter wooden scale is very appropriate. It is duly marked up to 50 cm.



Size : 60cm x 5cm Each Strips  
Set of 7 Magnetic Strips

## Magnifying Measure

**MM 2007** If you need to explore inter-relation among different units (metric as well as customary), then this resource is solution to your requirement. For better understanding of unit conversion from millimetre to meter and inches to feet, go for this resource.



Size : 20cm x 5cm

## Wall Thermometer

**MM 2008** An appropriate tool to measure the temperature of a place in shade and in sunlight to compare them and verify the conversion formula for Celsius to Fahrenheit.

Size : 29cm

## Chemical Thermometer

**MM 2009** To measure the temperature of ice, tap water, milk, and sand. The child will be able to measure that at a time, different things absorb different amount of heat and thus show different temperature. Children become skilled in taking temperature of different things.



## Rain Gauge

**MM 2010** A child can compare rainfall of different seasons for a place and can conclude how wet a place is. The set of rain gauge is provided with metal case having removable lid to collect rain water and a plastic calibrated rain gauge jar duly marked in centimetres.



Size : 26cm  
Set of 3 Pcs.

## Step n Count with Measuring Counter

**MM 2011** This resource is best to measure long distances and length easily. It will become easy and fun using this real world tool. The adjustable arm and non slip rubber tyre allow accurate reading, makes it comfortable for children of any height to use the tool. A sturdy counter allows accurate tracking of distance covered and easy-to-read in meters.

**Product Discontinued**

Length : 76cm  
Circumference of Wheel 1 Meter

# Measurement



**Cup Set**  
MM 2012

Set of 12 Pcs.



Size : 50ml, 100ml, 250ml,  
500ml Beaker and 1000ml Jug.  
Set of 5 Pcs.

**Jug & Beaker Set**

**MM 2013** Set of 5 unbreakable beakers with easy to read calibrations. Using the beakers, children can strengthen their understanding of liquid volume as well as the relationship between various units of capacities.

**Kitchen Balance**

**MM 2014** A kitchen scale is a useful tool not only for kitchen but also for Maths lab for weight measurements and conversion between units of weight. Set the scale to zero, this means turning a knob to set the dial indicator to the zero mark. It has pan on top to measure the weight of liquids, solid in grams or kilograms. Its scale allows you to read the measure shown by the needle. The balance allows you to measure weight up to 5kg.



Weight Capacity : 5kg

**Spring Balance**

**MM 2015**  
Tubular spring scales feature a clear plastic tube case that allows children to view internal working component.



Weight Capacity : 1kg

# Measurement

New

Product  
Discontinued

Set Contains : (100gm, 50gm, 10gm, 5gm, 1gm, Forcep, Fractional) 1 Pc. Each, (20gm, 2gm) 2 Pcs. Each

## Brass Weight Set

**MM 2016** Set of different weights form 1g to 100g in a proper storage box can be used with any balance to measure the weight of different objects.

New

Product  
Discontinued

1kg Bag 1Pcs.  
500g Bag 2 Pcs.  
250g Bag 2 Pcs.  
100g Bag 2 Pcs.  
50g Bag 5 Pcs.

## Weight Bags

**MM 2017** A set of bags, in different weights from 50g to 1 kg, can be used with any balance. It allows child to measure weights of different objects. These can also be used to explore relationship between grams and kilograms



Set Contains :  
2 Pan with Hanger (3g-6 Pcs, 6g, 9g, 12g - 2 Pcs. Each)  
Weighted Number (1, 2, 3, 4, 5, 6 - 4 Pcs Each & 7, 8, 9  
2 Pcs Each in 2 Colours)

## Dish Balance with Weight Number and Bear Weights

**MM 2018** This durable plastic dish balance allows children to measure and compare weights. They can see what they are measuring and relate visual and measured observation. Set of bear family weights is provided with this balance.

New



Size : 64cm x 35cm  
Set consists of Plastic Stand, Two Pans  
with Hangers, Connector, and Base.

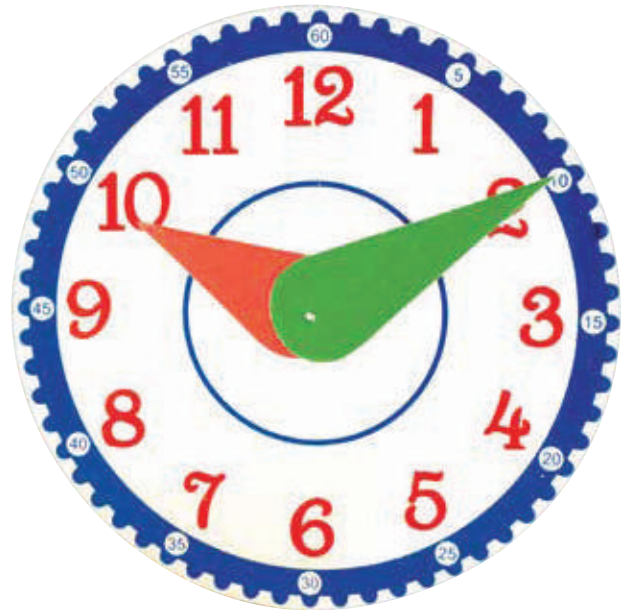
## Pan Balance

**MM 2019** To measure or compare weight, use this pan balance. A perfect tool for demonstration or group activities.

# Time

## Introduction:

Time bring time to life for beginning time-tellers! These resources help children to tell, read and write time, to reinforce addition and subtraction skills and strengthening the understanding of time intervals.



Diameter : 28cm

## Dummy Clock

**TM 3000** This light weight fiber dummy clock consists of movable hands of hours and minutes to develop and reinforce time telling skill.



Size : 12cm x 16cm  
Set of 5 Pcs.

## Student Clock Write and Wipe

**TM 3001** Encourage children to participate with Write-on/Wipe-off clock. This set of 5 clocks is great for small group or individual activities. A useful resource for transitioning from digital to analogue time telling, providing analogue clock with movable hands and write-on/wipe-off place to write digital time. Great way to encourage the child participation in time reading and writing activities and developing the concept and interrelation of 12-hour and 24-hour time, concept of AM and PM.

Diameter : 32cm

## Geared Teacher Clock

**TM 3002** This Geared Clock is accurate to the hour with the movement of the minute arm. It is a great manipulative for developing time telling skill for the children. This clock is provided with bright colour clock arms, featuring easy-to-read. Hidden gears maintain correct hour and minute relationship as you manipulate moveable hands. The clock is made of durable plastic.



# Time



## Student Time Indicator

**TM 3003** Perfect resource to compare local times of different countries with GMT. Read different time zones for different countries and compare.



## Time & Work Kit

**TM 3004** This kit is provided with assorted colour right angle triangles with digital stop watch. This kit help to calculate work done in the same time span by the different group.



Product  
Discontinued

## Geared Student Clock

**TM 3005** This student clock is accurate to the hours with the movement of the minute arm. It is a great manipulative to develop time telling skill of a child. This clock is provided with bright colour clock arms, featuring easy to read. Hidden gears maintain correct hour and minute relationships as you manipulate moveable hands.

Diameter : 11cm



Diameter : 12.5cm

## Palm Clock

**TM 3006** This palm size clock helps children to focus on time-telling skill and makes it easier to differentiate between hours and minutes.



## Stop Watch

**TM 3007** This is a digital stop watch mainly use to calculate the relationship between time and work or teacher can use it in various activities.

New



Product  
Discontinued

## Giant Clock

**TM 3008** Newly designed tool that fascinates children when they assemble the clock them selves. 12 number pieces with magnets at the back to attach on any magnetic surface to make any circular or square clock. Hands of the clock are also magnetic. Best for demonstration in class and to conduct time reading and time telling activities.



# Data & Finance

## Introduction:

Data and Finance plays an important role in one's life. If we look deeply, many daily routine activities involved these concepts. Building a strong understanding of these concepts cannot be denied. These resources help children to learn with enjoyment and build deep understanding of the concepts. Also, activities with these resources help them to connect the learning with real world.



**Student Set (A) :** 50 Pcs. ( ₹1, ₹2, ₹5, ₹10, ₹20, ₹50, ₹100, ₹200, ₹500, ₹2000 = 5 Pcs. Each)  
**Classroom Set (B) :** 250 Pcs. ( ₹1, ₹2, ₹5, ₹10, ₹20, ₹50, ₹100, ₹200, ₹500, ₹2000 = 25 Pcs. Each)

## Dummy Currency Notes

**DF 4000** Dummy currency notes provide happiness to child by giving opportunities to act buyer, seller, allowing transacting with amounts, making combination of different notes to pay an amount and learn with this realistic play money set containing dummy currency notes from ₹ 1 to ₹ 2000.



## Dummy Cheque Book & Pay in Slip

**DF 4001** This resource plays an important role in familiarizing children with banking process and connecting the use of number names in real life. Each booklet has 50 cheques and pay-in slips



Size : 2cm  
Set of 4 Pcs. in 2 Colours

## Plastic Dice

**DF 4002** Dice always help in making learning fun by associating this with other resources and turning resources into a game.

Size : 1.8cm  
Set of 4 Pcs. in 2 Colours



## Transparent Dice

**DF 4003** Dice always help in making learning fun by associating this with other resources and turning resources into a game.



Size : 58cm x 43cm  
Set of Wooden Board with 10 Grooves, Stands, 100 Cube in 10 Colours.

## Data Collection Board

**DF 4004** The student will quickly learn to develop and understand bar graph using this wooden data collection board in conjunction with 1.5 cm interlocking cubes. The graph board has a write-on/wipe-off surface allowing student to label the x-axis and the y-axis as well as the title of the bar graph.

# Data & Finance

New



Set of 8 Coins  
25Paise, 50Paise 2 Pcs. each  
1Rs., 2Rs., 5Rs., 10Rs. 1 Pcs. each

## Dummy Coins

**DF 4005** Dummy coins provide happiness to child by giving opportunities to act buyer, seller, allowing transacting with amounts, making combination of different coins to pay an amount etc.

New



Set Contains One Wooden Probability Board, 1 Spinner, 4 Dice in 4 Different Colours, 20 Coins, Playing Cards, 4 Box (400 Pcs.) of Marbles in 4 Colours.

## Probability Kit

**DF 4006** The concept of probability is fun when given an opportunity to explore. This resource gives that opportunity to explore, learn and enjoy the concept of probability. It is used to understand the concept of sample space, event space, dependent event, independent event, mutually exclusive event, random probability etc.

New

Size : 1.8cm  
Set of 6 Pcs.

Product  
Discontinued

## Fractions Dice

**DF 4007** Six faced dice with fraction  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{1}{5}$ ,  $\frac{1}{6}$  &  $\frac{1}{8}$  on each face respectively. Use this dice with fraction discs or fraction base and turn activities into games, adding fun for children.

New

Size : 1.8cm  
Set of 12 Pcs. Multicolours

Product  
Discontinued

## Number Dice

**DF 4008** A set of 12 colourful plastic dice, numbered 1 through 6 ideal for all number and probability activities.

New

Size : 2.5cm  
Set of 2 Pcs.



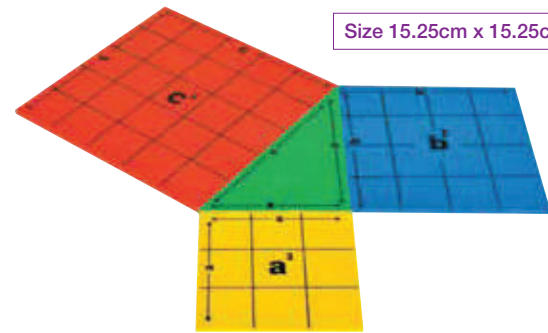
## Colour Dice

**DF 4009** Dice always help in making learning fun by associating this with other resources and turning resources into a game.

# Theorems

## Introduction:

In mathematics, a theorem is a statement that has been proved on the basis of previously established statements, such as other theorems and generally accepted statements, such as axioms. A theorem is a logical consequence of the axioms. A theorem is a general proposition, not self-evident but proved by a chain of reasoning. Theorems can be explained to the students by different manipulative that helps to understand with the reasoning behind it and build long term learning.

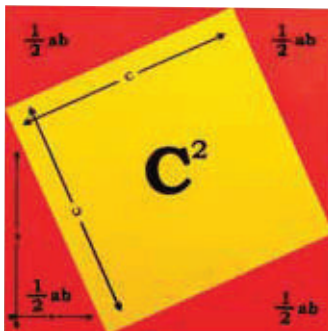


Size 15.25cm x 15.25cm

## Junior Pythagoras Theorem

**TH 5000** To verify that in a right triangle, the square of the hypotenuse is equal to the sum of the squares of other two sides. It is provided with one plastic right angled triangle with measure (3-4-5)" and set of squares of each of the 3 sides with duly printed grid of each square inches.

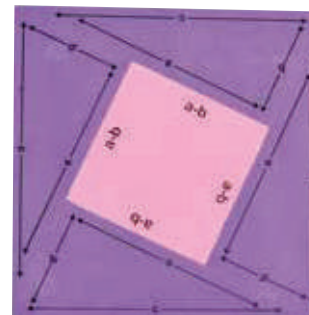
Size : 40cm x 40cm



## Senior Pythagoras (Magnetic)

**TH 5001** Senior Pythagoras theorem is provided in acrylic consist with 4 right angled triangle and 1 big square. The overall size 16" x 16" in measures, can be display on magnetic board for demonstration.

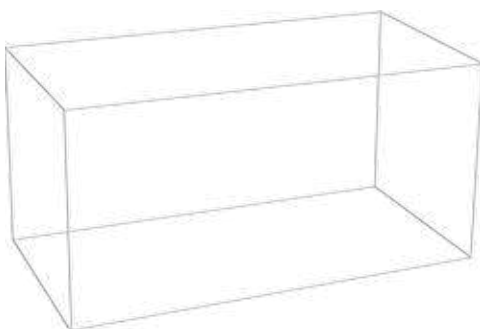
Size : 28cm x 28cm



## Pythagoras Theorem by Reverse Method

**TH 5002** This manipulative is made up of foam with magnet at the back for demonstration purpose. This reverse Pythagoras Theorem is also called Bhaskaracharya proof of Pythagoras Theorem

Size : 30cm x 16cm x 16cm



## Vector as Linear Combination of Vector

**TH 5003** It is very versatile tool made from clear Acrylic for study of vectors. Student can understand the cross and dot properties of vectors.

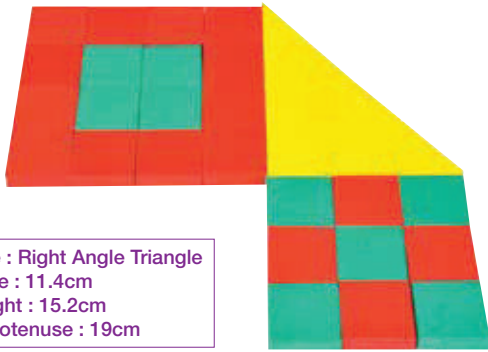
Size : 10cm x 15cm  
Set of 4 Pcs.



## Conic Section

**TH 5004** The set consists of 4 section models of Cone - Circle, Hyperbola, Ecllipse and Parabola

# Theorems



Size : Right Angle Triangle  
Base : 11.4cm  
Height : 15.2cm  
Hypotenuse : 19cm

## Pythagoras Theorem by Small Square

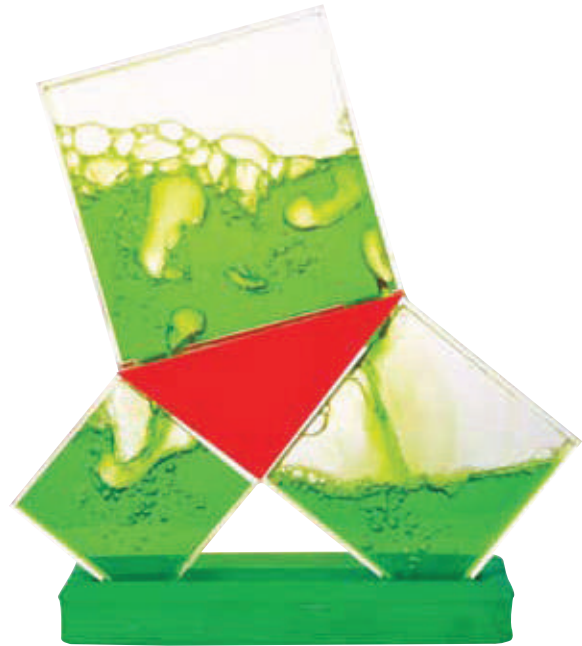
**TH 5005** To verify the Pythagoras theorem by arranging unit squares to make square on each side equivalent to the corresponding length. Provided with 1 right angled triangle and 25 unit squares in 2 colours.



Diameter : 25cm

## Ring of Theorem

**TH 5006** Ring of theorem is made up of plastic and used to investigate the properties and theorems related to circles such as Sum of the opposite angles of a cyclic quadrilateral is supplementary; angle in a semicircle is a right angle; angles in the same segment of a circle are equal etc. This manipulative is provided with rubber band and reusable storage box.



Size : Right Angle Triangle  
Base : 7.5cm  
Height : 10cm  
Hypotenuse : 12.5cm

## Working Model of Pythagoras Theorem

**TH 5007** This working model is the great way to display proof of Pythagoras theorem by volume. It's easy to demonstrate to whole class that sum of volume of side a and side b is equal to the volume of side c.



Set of 11 Demo Activity Kit

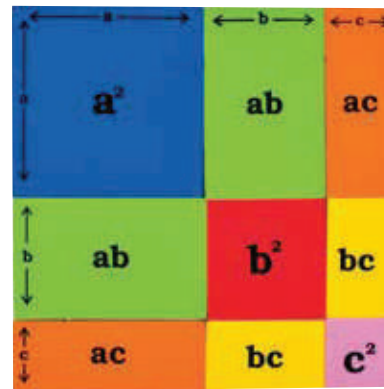
## Mensuration Kit

**TH 5008** One of the best kit to explore mensuration related concepts. This kit helps to investigate and verify the area, perimeter and other physical property of two-dimensional figures. It's easy to demonstrate on magnetic board for visual understanding. 1.5cm plastic interlocking cube are also provided with this kit to make cubic identity models and a pack of activity cards with instruction manuals.

# Algebra

## Introduction:

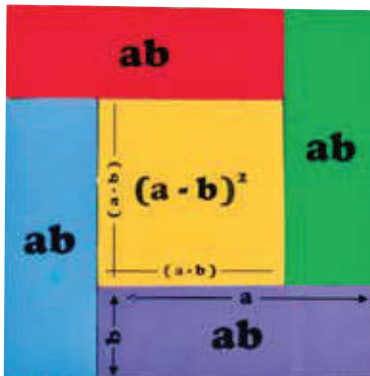
Algebra is one of the broad and major parts of mathematics. Algebra is the language through which we describe patterns i.e. generalized form of any pattern using some letters known as unknowns or variables. It is an abstract concept and many children struggle with factoring polynomials and operating on polynomial because of lack of concrete experiences and visualization. Identities and formulas are some of the generalized logics of algebra that are used to simplify or rearrange algebra expressions. An identity is a relation which is tautologically true. This means that whatever the number or value may be, the answer stays the same.



Size : 41cm x 41cm

$(a + b + c)^2$

**ID 6000** This resource helps you to derive, investigate and generalize the identity. This can also be used to demonstrate on magnetic board.



Size : 41cm x 41cm

$(a + b)^2 - (a - b)^2 = 4ab$

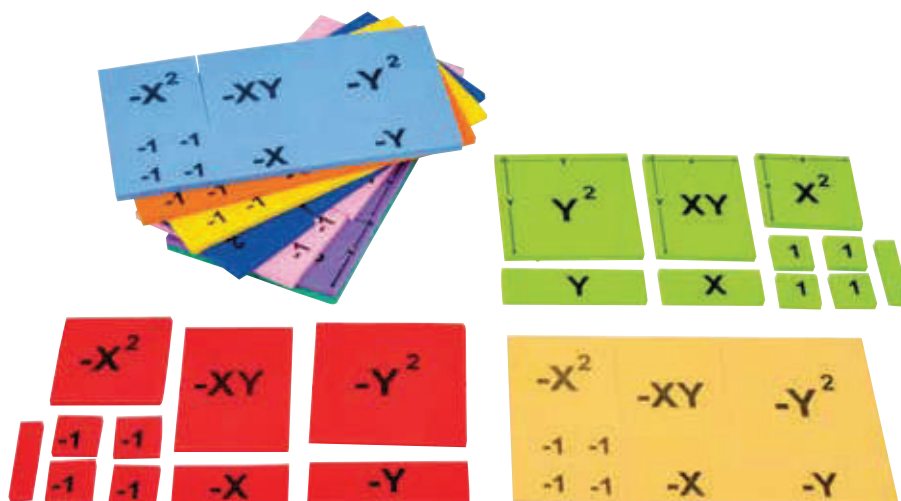
**ID 6001** This resource helps you to derive, investigate and generalize the identity. This can also be used to demonstrate on magnetic board.



Size : 10cm x 10cm x 10cm  
Set of 8 Pcs.

$(a + b)^3$

**ID 6002** This is a demonstration model of  $(a+b)^3$ . Made up of Acrylic easy to show the complex identity by detachable.



Size : 17cm x 9cm  
Set of 10 Pcs.

## Algebra Kit

**ID 6003** Moving to higher class, children deal with polynomials with 2 variables or more. Algebra kit allows child to investigate and learn concepts related to polynomials (2 variables) efficiently with the use of these labelled algebra tiles.

# Algebra

New



Size : 2cm x 2cm x 2cm  
Set of 625 Pcs. in 5 Colours

## Interlocking Cubes

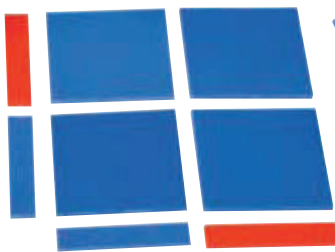
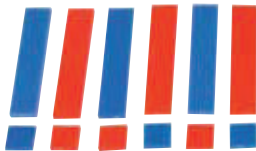
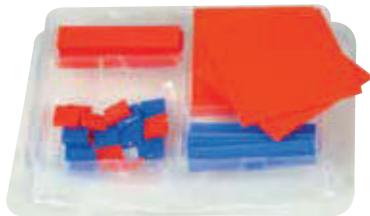
**ID 6004** These Interlocking Cubes is available in 5 colours, which are easy to connect and twist apart. These can be used to demonstrate cubic identities, volume, and other concepts too along with fun learning.



Size : 15cm x 15cm

## Student Identity Kit

**ID 6005** This kit allows child to generalize and derives the algebraic identities  $(a + b)^2$ ,  $(a - b)^2$  and  $a^2 - b^2$ .



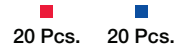
Size : 5cm x 5cm



Size : 1cm x 5cm



Size : 1cm x 1cm



Set of 70 Pcs.

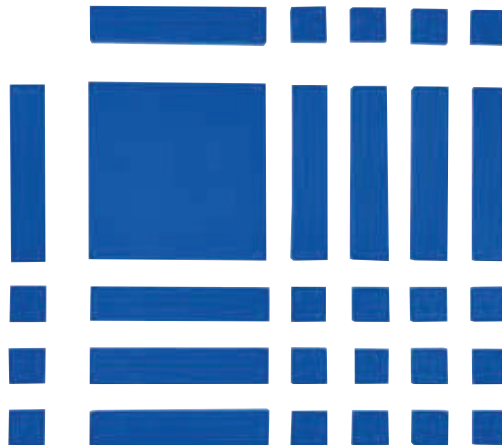
## Algebra Tiles

**ID 6006** One of the best resource to deal with concept of algebra such as performing operations (add, subtract or multiply) on polynomials or factorizing polynomials, solving linear equations, concepts of integers etc. Using algebra tiles in teaching polynomials allows children to practice working with polynomials with a hands-on approach. Algebra tiles come with three types of tiles in two colours each, typically red for negative tiles and blue for positive tiles.

New

## Algebra Tiles Magnetic

**ID 6007** Magnetic Algebra tiles is used by the teachers to explore the concepts on magnetic board in a classroom such as factorising polynomials, solving linear equations, concepts of integers etc. These Algebra tiles come in the shapes of square and rectangles. Algebra tiles come with three types of tiles in two colours Red & Blue each, typically red for negative tiles and blue for positive tiles.



Set of 70 Pcs.

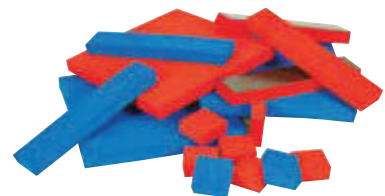
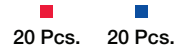
Size : 12.5cm x 12.5cm



Size : 2.5cm x 12.5cm



Size : 2.5cm x 2.5cm



# Trigonometry

## Introduction:

Trigonometry (from Greek trigonon, "triangle" and metron, "measure") is a branch of Mathematics that studies relationships involving lengths and angles of triangles. The study of angles and of the angular relationships of planar and three-dimensional figures is known as Trigonometry. The Trigonometric functions comprising Trigonometry are the Cosecant ( $\operatorname{cosec} \theta$ ), Cosine ( $\cos \theta$ ), Cotangent ( $\cot \theta$ ), Secant ( $\sec \theta$ ), Sine ( $\sin \theta$ ), and Tangent ( $\tan \theta$ ). These Manipulative helps children to do and discover their ideas.

Size : 28cm x 13cm



## Clinometer Compass

**TR 7000** A clinometer is a tool that is used to measure the angle of elevation (Angle from the Ground) in a right angled triangle. This can be used to measure the height of tall things that you can't possible reach the top of such as flag, poles, buildings, trees etc.



## Theodolite Modal

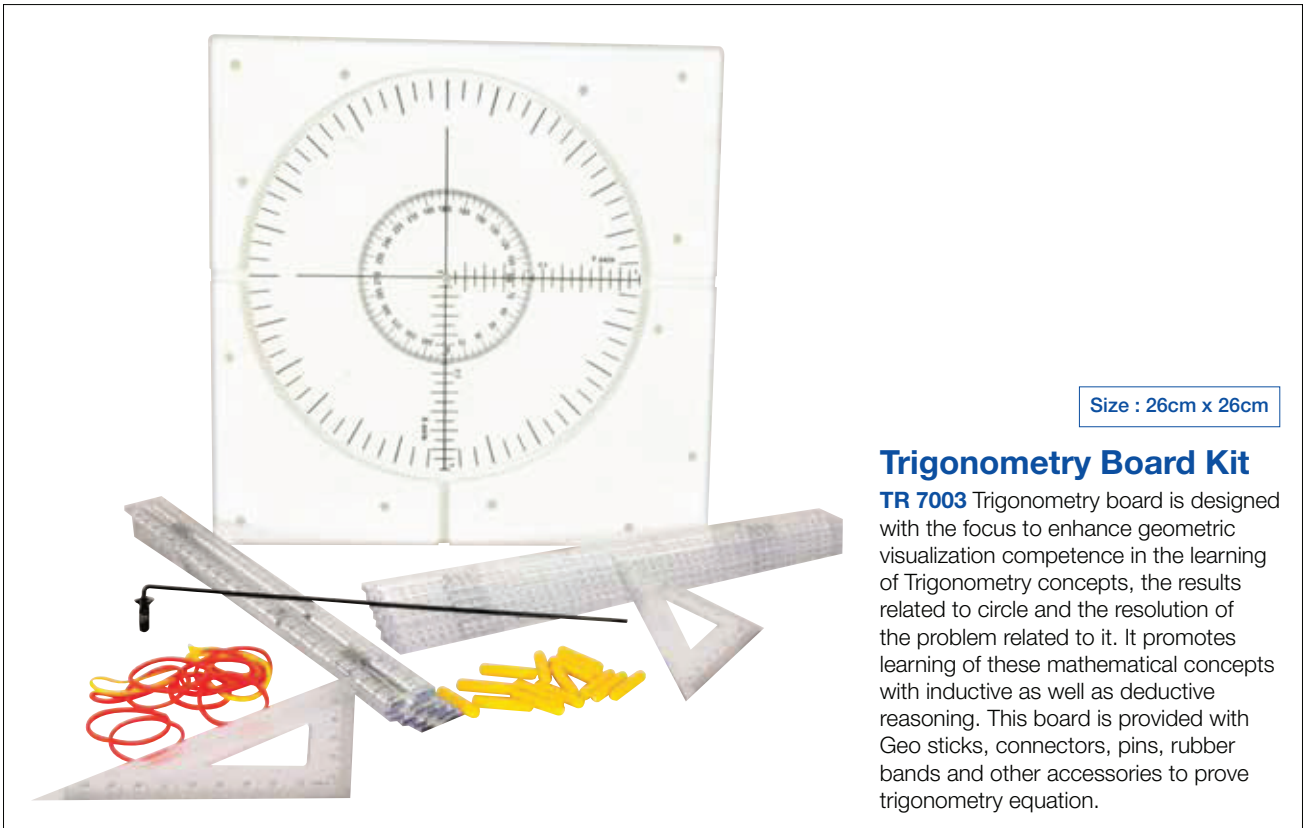
**TR 7001** A theodolite is an instrument for measuring both horizontal and vertical angles, as used in different types of works as triangulation, prolonging, computation of elevation and depression of distant and near. It consists of movable telescope mounted on the horizontal and vertical axes. Both the axes of theodolite are equipped with graduated circles.



## Sextant

**TR 7002** Sextant have been used for hundred of years to determine the angle of an object. A sextant consists of a small hollow pipe, mounted on a chassis with a few reflective mirrors and a  $60^\circ$  arc. The sextant is used to determine the angle of any object in comparison to the horizon. The angle of the arm and mirror is adjusted to align the object with the horizon and then the arc of the sextant is recorded to determine the angle of the object.

# Trigonometry



Size : 26cm x 26cm

## Trigonometry Board Kit

**TR 7003** Trigonometry board is designed with the focus to enhance geometric visualization competence in the learning of Trigonometry concepts, the results related to circle and the resolution of the problem related to it. It promotes learning of these mathematical concepts with inductive as well as deductive reasoning. This board is provided with Geo sticks, connectors, pins, rubber bands and other accessories to prove trigonometry equation.

New



Product  
Discontinued

Size : 5cm x 5cm Each Tiles  
Set of 16 Pcs.

### Trigonometry Puzzle Type 1

**TR 7004** This is a puzzle game on trigonometrical identity and their corresponding values. In this puzzle student have to put together 16 square pieces to form a larger square.

New



Product  
Discontinued

Size : 5cm x 5cm Each Tiles  
Set of 16 Pcs.

### Trigonometry Puzzle Type 2

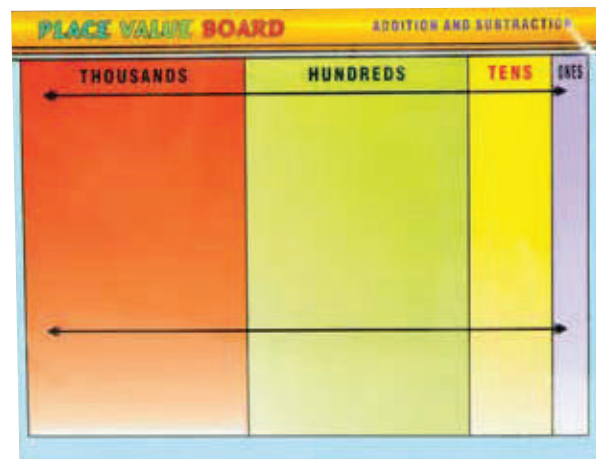
**TR 7005** This is a puzzle game on trigonometrical ratio and their corresponding values. In this puzzle student have to put together 16 square pieces to form a larger square.



# Board Games

## Introduction:

Board Games make learning fun and easy. These board games help in conceptual understanding and drilling simultaneously without making learning monotonous and bored.



Size : 28cm x 22cm

## Addition and Subtraction Board

**BG 8000** This board can be used with base ten blocks to explore addition and subtraction of whole numbers.



Size : 20cm x 28cm

## Multiplication Board

**BG 8001** This board is given along with foam square tiles to explore multiplication of whole numbers.



Size : 29cm x 25cm

## Ascending Card Game

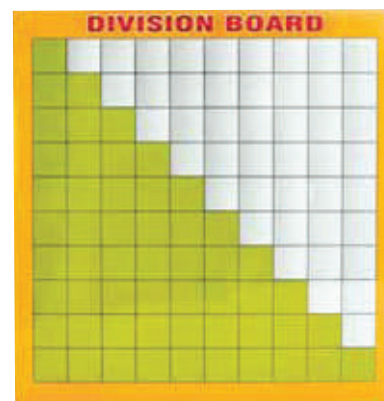
**BG 8002** Using number cards along the board will allow the learner to place number cards in ascending order on the board.



Size : 29cm x 25cm

## Descending Card Game

**BG 8003** Using number cards along this board will allow the learner to place number cards in descending order on the board.

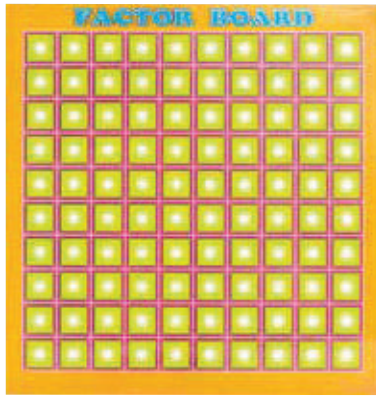


Size : 27cm x 27cm

## Division Board

**BG 8004** This board is given along with foam square tiles to introduce the concept of division.

# Board Games



Size : 27cm x 27cm

## Factor Board

**BG 8005** This board is given along with foam square tiles to explore the concept of factors.



Set of 25 Cards

## Number Cards

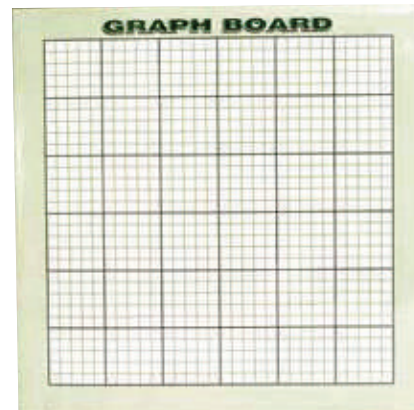
**BG 8006** These cards can be used with ascending/descending board, with base ten blocks etc. to make concepts related to numbers fun and interesting!

INTEGER BOARD GAME														
104	103	102	101	100	99	98	97	96	95	94				
83	84	85	86	87	88	89	90	91	92	93				
72	81	80	79	78	77	76	75	74	73	72				
61	62	63	64	65	66	67	68	69	70	71				
50	59	58	57	56	55	54	53	52	51	50				
39	40	41	42	43	44	45	46	47	48	49				
28	37	36	35	34	33	32	31	30	29	28				
17	18	19	20	21	22	23	24	25	26	27				
6	15	14	13	12	11	10	9	8	7	6				
5	-4	-3	-2	-1	0	1	2	3	4	5				
-16	-7	-8	-9	-10	-11	-12	-13	-14	-15	-16				
-27	-26	-25	-24	-23	-22	-21	-20	-19	-18	-17				
-38	-29	-30	-31	-32	-33	-34	-35	-36	-37	-38				
-49	-48	-47	-46	-45	-44	-43	-42	-41	-40	-39				
-60	-51	-52	-53	-54	-55	-56	-57	-58	-59	-60				
-71	-70	-69	-68	-67	-66	-65	-64	-63	-62	-61				
-82	-73	-74	-75	-76	-77	-78	-79	-80	-81	-82				
-93	-92	-91	-90	-89	-88	-87	-86	-85	-84	-83				
-104	-95	-96	-97	-98	-99	-100	-101	-102	-103	-104				

Size : 31cm x 46cm

## Integer Board Game

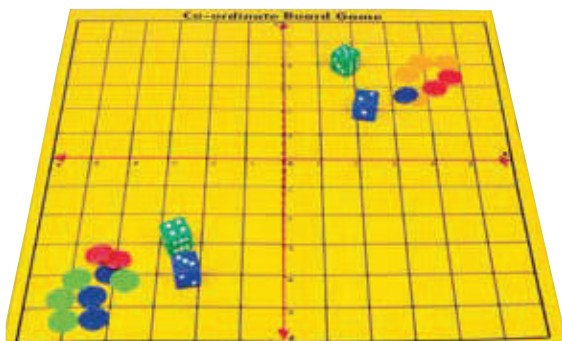
**BG 8007** An interesting board game with dice and counters to understand the concept of addition and subtraction of integer numbers.



Size : 30cm x 30cm

## Graph Board Game

**BG 8008**



## Co-ordinate Geo Board

**BG 8009** This board game makes learning of coordinate geometry fun and easy! A very common task in math class is to plot and name points on a four-quadrant graph. This coordinate board game with attractive colour counters and dice will help explore the plotting of coordinates and naming their respective points.

New

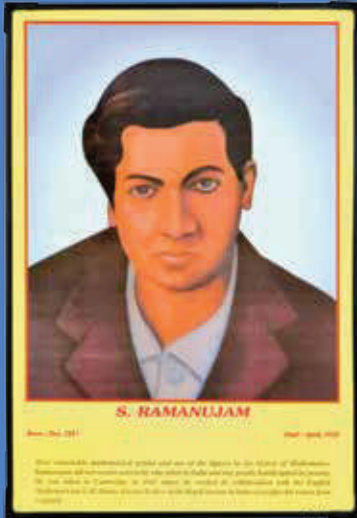


Size : 30cm x 27cm

## Place Value Game with Counters

**BG 8010** Set includes place value mats and place value cards. Staking Counters snaps together vertically and can be stacked in its appropriate place for determine the place value.

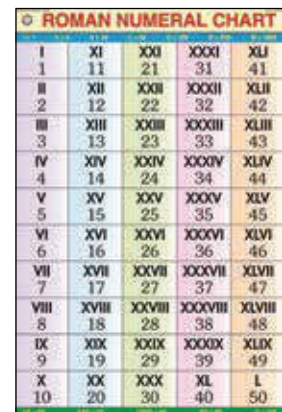
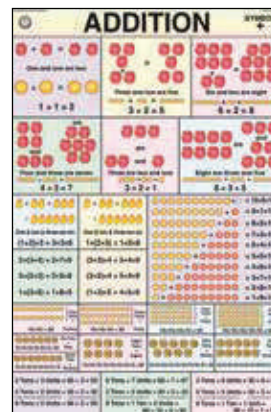
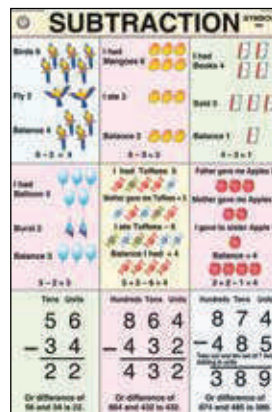
# Charts



Size : 31cm x 43cm approx.  
46cm x 60cm approx.

## Mathematician Portrait

- |                             |                      |
|-----------------------------|----------------------|
| PR 01 Archimedes            | PR 11 Lady Lovelace  |
| PR 02 Georg Descartes       | PR 12 Issac Newton   |
| PR 03 Rene Descartes        | PR 13 Pascal         |
| PR 04 Eukeides (Euclid)     | PR 14 Pythagoras     |
| PR 05 Leonard Euler         | PR 15 Zeno of Elea   |
| PR 06 Pierre de Fermat      | PR 16 Riemann        |
| PR 07 J. C. Friedrich Gauss | PR 17 Ramanujan      |
| PR 08 Lagrange              | PR 18 Aryabhata      |
| PR 09 Laplace               | PR 19 Varash Mihir   |
| PR 10 Leibniz               | PR 20 Bhaskaracharya |

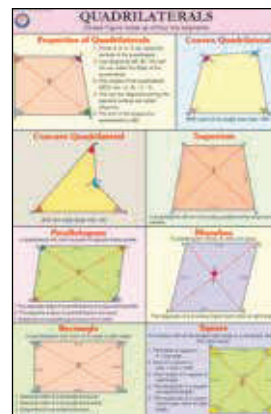
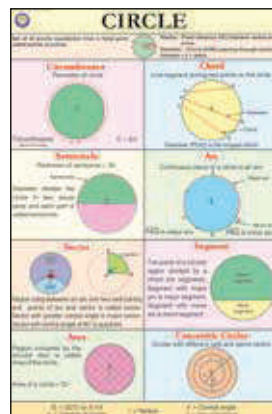
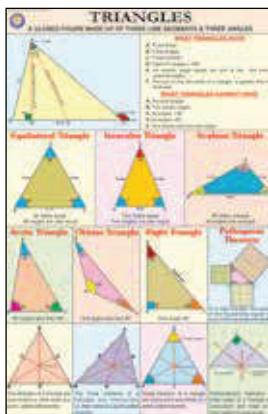


### Arithmetic Charts Set of 7

EC 01

1. English Numerical, 2. Addition, 3. Subtraction, 4. Multiplication, 5. Division, 6. Multiplication Table, 7. Roman Numerical

Size : 50cm x 75cm



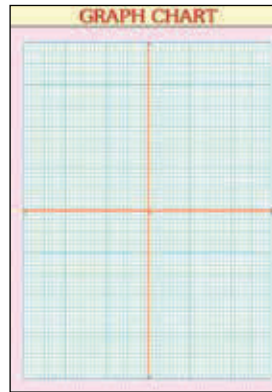
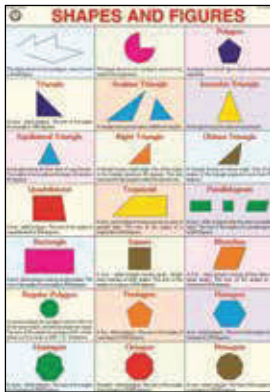
### Upper Primary Charts Set of 15

EC 02

Size : 50cm x 75cm

1. Number System
2. Algebra Identification and Formula
3. Addition of Rational Numbers
4. Multiplication and Division of Rational Numbers
5. Some Geometry Concept
6. Angles
7. Pair of Angles
8. Triangles
9. Quadrilaterals
10. Circles
11. Congruent Triangles
12. Property of Circle
13. Mensuration - I
14. Mensuration - II
15. Profit & Loss

# Charts

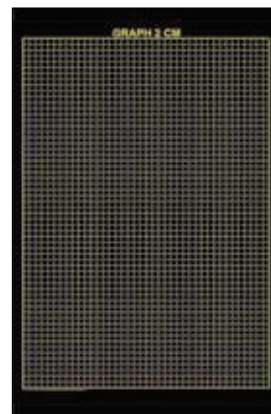
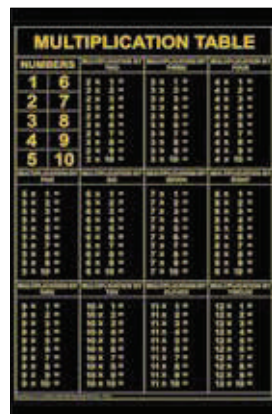
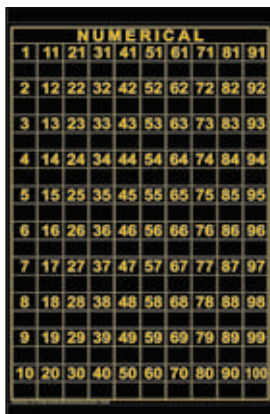


## Polyart Chart Set of 5

EC 03

1. Mensuration Chart, 2. Shapes & Figures, 3. Chart of math Symbol, 4. Algebra Identities, 5. Graphs Chart

Size : 70cm x 100cm



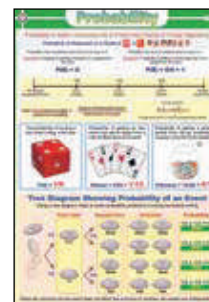
## PVC Chart Set of 3

EC 04

1. Numerical  
2. Multiplication  
3. Graph

Size : 67cm x 100cm

New



## Secondary Chart Set of 21

EC 05

1. Time
2. Sets
3. Probability
4. HCF and LCM
5. Ration & Proportion
6. Number Patterns
7. Simple Equations
8. Inequalities
9. Polygons
10. Solid and their Nets
11. Coordinate Geometry
12. Transformation Geometry
13. Trigonometry
14. Data Handling
15. Interest and Depreciation
16. Trigonometric identities
17. Trigonometric Ratio and values
18. Graph of Trigonometric Functions
19. Similarity and Congruency
20. Measures of Central Tendency
21. Fractions, Decimal & Percentage

Size : 70cm x 100cm

# Higher Secondary

New

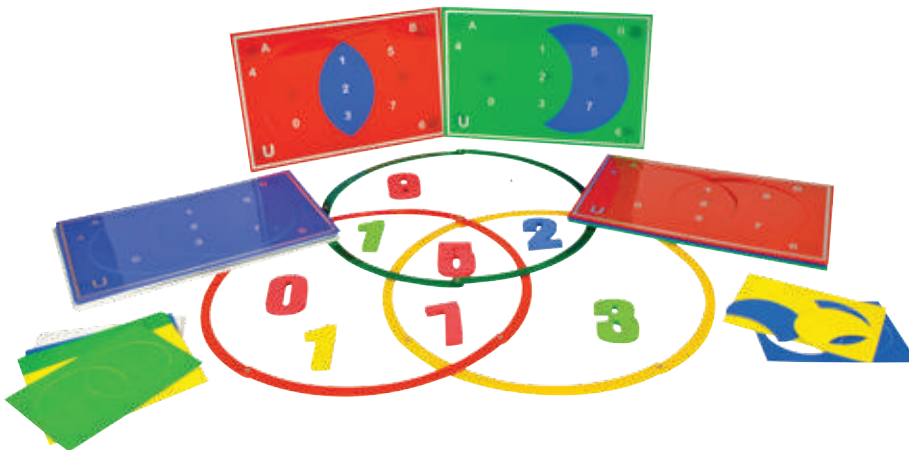


Set contains 4 X - Y Coordinate Geoboard, 1 Wooden Conic Section Model, 4 Set of cutout of Conic Section in Plastic, 400 Rubber Band and 100 Pegs, with How to use Manual.

## Conic Section with Standard Equation Kit

**HS01** This Manipulative is used for understanding the concept of Parabola, Hyperbola, Ellipse and Circle. Student can able to determine the Standard Equation of Circle, Parabola, Hyperbola and Ellipse with X-Y Coordinate Geoboard and Cut-out of Conic Section and also understand the concept of Focus, Directrices, Latus-Rectum Major And Minor Axis of Ellipse with help of Rubber Bands.

New



Set contains 8 Pieces of Set Activity Models in Plastic in Four Colour, 3 Magnetic Circle with 2 Set of Magnetic Numbers from 0 to 9, 8 Student Activity Card in 8 Colours with "How to use Manual."

## Set Theory By Venn Diagram Kit

**HS02** This Manipulative is used for understanding the concept of subset of a set, disjoint set, union, intersection, complements, power set and set difference by Venn Diagram.

New



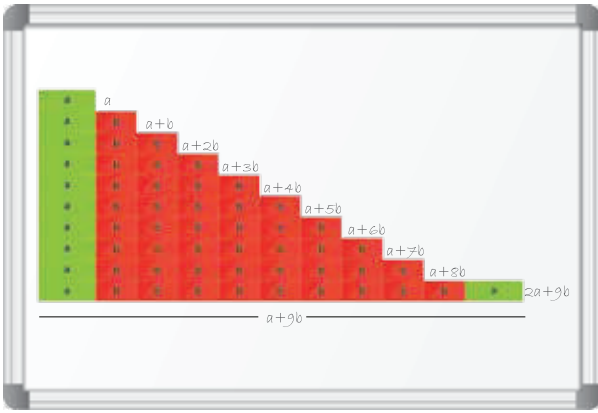
Set Contains One Wooden Probability Board, 1 Spinner, 4 Dice in 4 Different Colours, 20 Coins, Playing Cards, 4 Box (400 Pcs.) of Marbles in 4 Colours, "How to Use Manual."

## Probability Kit

**HS03** The concept of probability is fun when given an opportunity to explore. This resource gives that opportunity to explore, learn and enjoy the concept of probability. It is used to understand the concept of sample space, event space, dependent event, independent event, mutually exclusive event, random probability etc. with the help of Rubber Bands.

# Higher Secondary

New



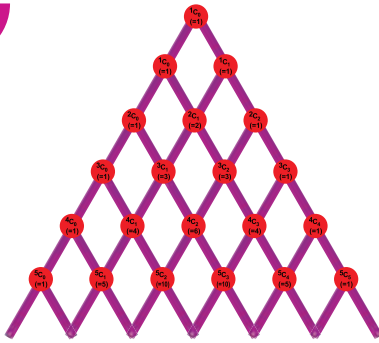
Set Contains 56 Pieces of Magnetic Rectangular Foam Tiles and 56 Pieces of Magnetic Square Foam Tiles.

## Arithmetic Progression Kit

**HS04** This manipulative is used for understanding the concept of first term, common difference,  $n$ th terms, and arithmetic progression series and also calculates the sum of arithmetic progression series. All Activity can be performed by Student with the help of these Tiles and "How To Use Manual" on Magnetic Board.



New



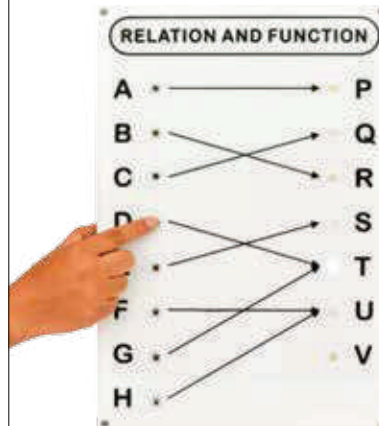
Set Contains 51 Magnetic Stick and 21 Magnetic Counter with "How to Use Manual."

## Pascal Triangle Kit

**HS05** This manipulative can be used to determine the coefficient of different terms of a binomial expansion.

New

Set Contains 1 Digital Board with High Quality Low Bolt Switches with "How to Use Manual."



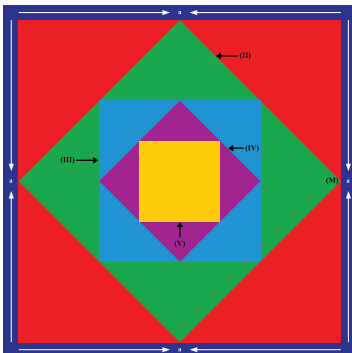
## Relation and Function Kit

**HS06** Student can understand the concept of Range, Domain, Co Domain, Relation and different type of Function like One-One Mapping, Many-One Mapping and Onto-Mapping.

New

Size : 41cm x 41cm

## Geometrical Progression Kit



**HS07** This manipulative is used for understanding the concept of first term, common difference,  $n$ th terms, and Geometric Progression Series. All activity can be performed by student with the help of these foam tiles and "How to use Manual" on Magnetic Board.

New

Size : 2ft x 3ft



## Magnetic Board

**HS08** Each activity of Higher Secondary Kit can effectively be performed by student with the help of Magnetic Board.

# Classroom Kits

## Math Kit Junior - I CK-01



### Kit Contains

- |                              |                        |                             |                             |                        |
|------------------------------|------------------------|-----------------------------|-----------------------------|------------------------|
| • Solid Figure Set           | • Chemical Thermometer | • Designer Fraction         | • PVC Chart (Set of 3)      | • Geometrical Stencils |
| • Geometrical Instrument Box | • Kitchen Balance      | • Pattern of Triangle       | • Half Meter Scale          | • Set of Pearl Marbles |
| • Measuring Tape             | • Geoboard             | • Game of Place Value       | • Plastic Moulds            |                        |
| • Jug & Beaker Set           | • Abacus               | • Magnetic Fraction Disk    | • Set of cup                |                        |
| • Wall Thermometer           | • Fiber Dummy Clock    | • Transparencies Set of 10  | • Junior Pythagoras Theorem |                        |
|                              | • Skip Counting Board  | • Arithmetic Chart Set of 7 |                             |                        |

## Math Kit Junior - II CK-02



### Kit Contains

- |                      |                               |  |   |                             |
|----------------------|-------------------------------|--|---|-----------------------------|
| • Abacus             | • Base & Place Value Kit      | • Number with Plate                          | (3" × 1.5")                                       | • Geometry Kit              |
| • Jr. Abacus         | • Fraction Square             | • Pythagoras Theorem                         | • Cuisenaire Strips (Group activity set of 5 kit) | • Time & Work Kit           |
| • Power <sup>2</sup> | • Algebra Identity (Set of 3) | • Triangle Kit (Group activity set of 5 Kit) | • Magnifying Measures                             | • Volume set 50ml to 1000ml |
| • Sit & Set          | • Decimal Plate               | • Geometrical Model                          | • Metric Wheel                                    |                             |
| • Tangram            | • Roman Number Kit            |  |   |                             |

# Classroom Kits

## Math Kit Senior - I

CK-03



### Kit Contains

- Geoboard
- Magnetic Fraction Disk
- Set of Marbles
- Pythagoras Theorem (Magnetic)
- Dummy Cheque Book & Pay in Slip
- Mensuration Kit
- Derivation of Pie (Magnetic)
- Optical Square
- Cross Vertical Staff
- Vernier Calliper
- Standard Time Indicator
- Survey Measuring Tape
- Rain Gauge
- Magic Circle
- Cup Set Volumetric Scale Printed
- Poly Art Char Set of 5
- Mathematics Charts set of 15
- Algebra Cubes Plastic
- Sextant Model
- Theodolite Model

## Math Kit Senior - II

CK-04

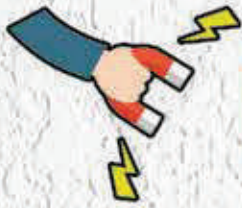


### Kit Contains

- Magnetic Fractions Disk (Circular)
- Ring of Theorem
- Hollow Sphere (Transparent)
- Hollow Cylinder (Transparent)
- Conic Section
- Angle Sum Property of Triangle
- Angle Sum Property of Quadrilateral
- Exterior Angle of Regular Polygon
- Volume Relation Between Cone and Cylinder
- Volume Relation of Square Prism and Pyramid
- Pythagoras Theorem
- Ratio of Area of Similar Triangles
- Combination of Cube and Sphere (Transparent)
- Formation of Tetrahedron
- Polyhedron and Their Net
- Unit Cubes
- Construction of Parabola
- Vector
- Angle Quadrilateral
- Clinometer Compass



**DEAD WALL BECOMES ALIVE  
TEACHING BOARD COMES TO LIFE**



# MAGNACOAT



Coat any surface (Brick Wall or Wood / MDF partition) to which magnets attract

Being an undercoat, invisible behind paint or wallpaper

No rusting problem, user friendly

Eliminates installation of expensive bulletin or cork boards

A great solution for cluttered refrigerators, ugly push pin holes and tape marks.

Awarded EN71-3 norm: safe for children to play with Holds up to 20 sheets of paper with one magnet (29mm Neodym) waterbased latex primer, no smells, easy application



Available in  
0.5 L, 1 L, 2 L and 5 L

## Best Use

**Kids Room / Home / School / Office**

school displays • art projects • photo walls • work walls • play areas • home workshops • planning boards • offices • classrooms • word walls • bulletin boards • dorm rooms

All Scientists invented because they tried DIY (Do-It-Yourself) hence.....  
 Allow your children to use Our DIY Science Toys without excuse  
 Concepts will be understood without confuse  
 Entire classroom will be filled with Scientists profuse



# SCIENCE DIY KITS

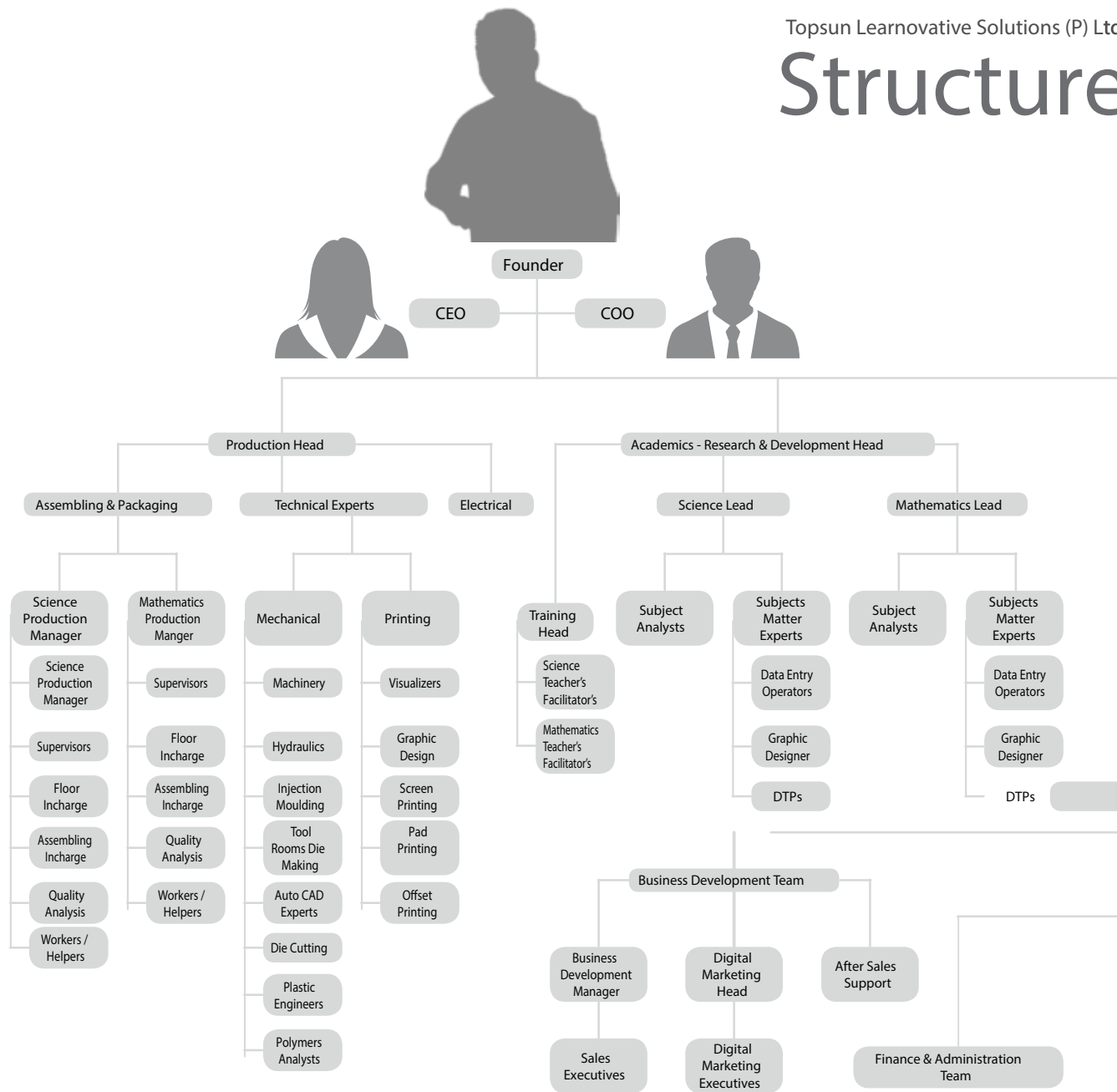


## Products range

- Robo Link 1
- Build your own Microscope 300x
- Photosynthesis in a tube
- Bone assembly
- Model eye with liquid lens
- Home volcano
- 2-Way car circuit kit
- Conductivity tester

... and many more

# Structure



<https://www.educationkit.in>

<https://www.youdo.co.in>

# Creative Learning Tools



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