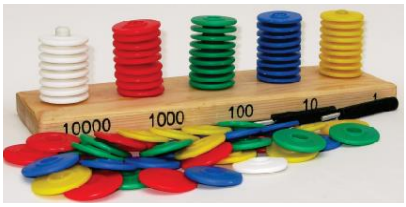
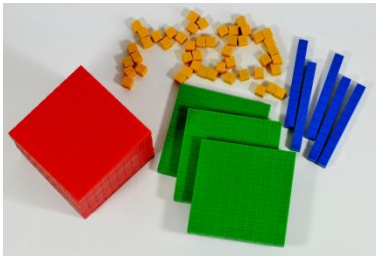
Details of Technical Specification for each item

Abacus



1. Serial No. of the	Item - 1
2. Title of the Item	**Abacus (Board, Beads & Rods)**
3. Description of the Item	5 Rod Abacus that holds up to 9 rings and with additional snap on rods to hold another 10 rings. The rings are in five colours representing ones, tens, hundreds, thousands and ten thousands and used to teach place value concepts, addition, subtraction, concepts with borrow and carry over
4. Size	a. Base - 250 mm length X 75 mm width X 15 mm thickness b. Rings – 30 mm outer dia X 10 mm hole dia X 5 mm thickness c. Rods - 45 mm length X 9.5 mm dia
5. Material	• Base - Wood - Medium-density fiberboard (MDF) • Rings – High Density Polyethylene I50A180A G-LENE • Rods – High Density Polyethylene I50A180A G-LENE (insert moulded with aluminium rivets)
6. Colour	• Natural • Red, Green, Blue, Yellow & White • Red, Green, Blue, Yellow, White & Black
7. Print	On the base printing is done in black colour to show the place value as 1, 10, 100, 1000, 10000
8. Finish	Fine and durable printing
9. Quantity	1 set consists of • Abacus Base with printing and 5 Rods Riveted • Rings – Red, Green, Blue, Yellow – 20 nos in each colour and 10 nos in white • Rods – Snap on Rods in Black colour - 2 nos
10. Package	Rings and Rods are packed in Ziploc plastic cover of 250 micron and Abacus Base in Carry Box

Base Ten Blocks



1. Serial No. of the	Item - 2
2. Title of the Item	**Base Ten Blocks**
3. Description of the Item	Base ten blocks include unit blocks, rods that represent 10 units, flats that represent 100 units, and cubes that represent 1000 units used to learn place value, addition, subtraction, multiplication and division. It can also be used to teach measurement concepts like area and volume.
4. Size	a. Unit cube - 10 x 10 x 10 mm (weight 1 gm) b. Tens rod - 10 x 100 x 100 mm (weight 10 gm) c. Hundreds flats – 10 x 100 x 100 mm d. Thousands cube – 100 x 100 x 100 mm square cube
5. Material	All items moulded using High Impact Polystyrene
6. Colour	a. Unit cube - Yellow b. Tens rod - Blue c. Hundreds flats – Green d. Thousands cube – Red
7. Print	N/A
8. Finish	Fine
9. Quantity	a. Unit cube - 100 nos. b. Tens rod - 20 nos. c. Hundreds flats – 20 nos. d. Thousands cube – 1 no.
10. Package	a. Packed in Ziploc plastic cover of 250 micron b. Packed in Ziploc plastic cover of 250 micron c. Packed in Volume measures of Weighing Balance (with Item No.19) d. In carry box

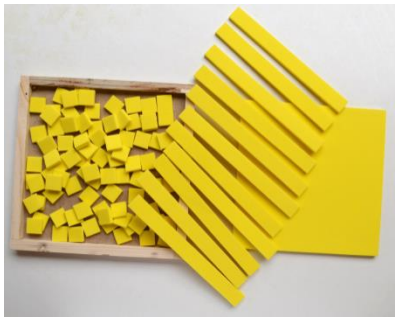
Cloth pin

1. Serial No. of the	Item - 3
2. Title of the Item	**Cloth Clips**
3. Description of the Item	Plastic pins to be used along with Number Beads.
4. Size	65 mm long X 13 width X 25 mm thickness
5. Material	High Impact Polystyrene
6. Colour	Multi colours
7. Print	N/A
8. Finish	To be without burr of flash
9. Quantity	12 Nos.
10. Package	Ziploc plastic cover with 250 micron

Dice

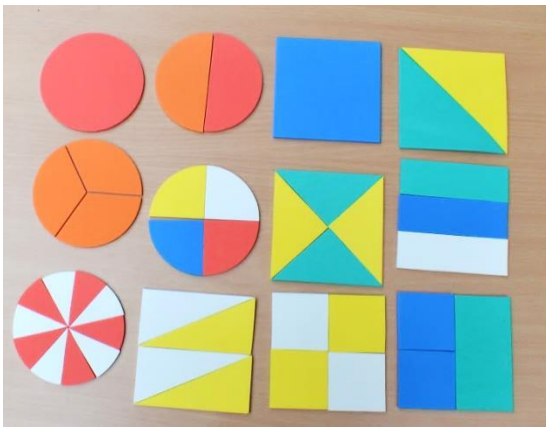
1. Serial No. of the	Item - 4
2. Title of the Item	**Dice**
3. Description of the Item	5 pairs of colour coded dice, when rolled out the total dots on the face of each coloured pair will be 9 or less than 9. Used to generate Random numbers to help in understanding number operations through dice games.
4. Size	Dice cube - 10 x 10 X 10 mm
5. Material	High Impact Polystyrene
6. Colour	Red, Green, Blue, Yellow & White
7. Print	1 No. each of Red, Green, Blue, Yellow & White printed 3 sides – 4 dots and 1 No. each of Red, Green, Blue, Yellow & White printed 5 sides – 1 to 5 dots
8. Finish	Fine finish and durable printing
9. Quantity	10 Nos. - 2 Nos. each of Red, Green, Blue, Yellow & White colour
10. Package	Packing in Plastic Box (which is also for use of the dice)

Decimal set with tray



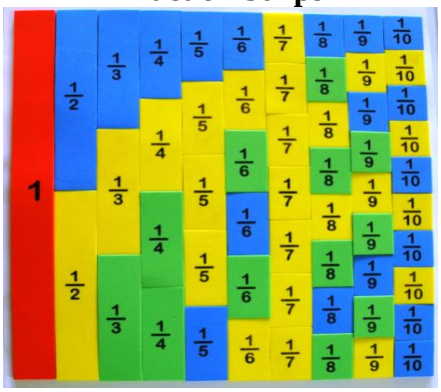
1. Serial No. of the	Item - 5
2. Title of the Item	**Decimal Set with Tray**
3. Description of the Item	Decimal numbers are whole numbers, numbers in tenths, hundredths position. The yellow big square represents a whole, the rectangle strips in one tenth of the big yellow square and the smaller yellow squares are one tenth of the yellow strips. This can be used along with the place value decimal strips to show decimal number and quantity relationships. Tray is provided for easy display & teaching.
4. Size	a. Whole square – 180 x 180 mm b. Rectangle Strips – 18 x 180 mm c. Small Square – 18 x 18 mm d. Tray – 185 x 185 mm
5. Material	a. Whole square b. Rectangle Strips c. Small Square (EVA Foam – Ethylene Vinyl Acetate) d. Tray - MDF
6. Colour	a. Whole square (Yellow Colour) b. Rectangle Strips (Yellow Colour) c. Small Square (Yellow Colour) d. Tray with frame – Natural Colour
7. Print	N/A
8. Finish	Fine
9. Quantity	1 set consists of • Full Square – 1 No. • Rectangle Strips – 10 Nos. • Small Square – 100 Nos. • Tray - 1 No.
10. Package	Ziploc plastic cover of 250 micron

Fraction Shapes



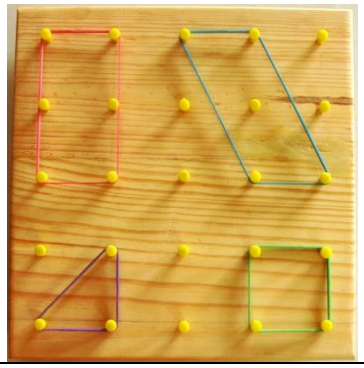
1. Serial No. of the	Item - 6
2. Title of the Item	**Fraction Shapes**
3. Description of the Item	The set consists of Circles and Squares and their fractional parts. Fraction pieces help to visually explain what parts of a whole look like and is ideal for introducing basic fraction concepts and to explore fractions and fractional equivalents.
4. Size	Circle-120 mm diameter, Square - 120mmx120mm, Rectangle – 40mmx120mm, Triangle – 120mmx120mmx120mm
5. Material	EVA Foam – Ethylene Vinyl Acetate
6. Colour	Red, Green, Blue, Yellow, Orange & White
7. Print	N/A
8. Finish	Smooth
9. Quantity	1 set consists of • Full circle - 1 no., Half circle – 2 nos. , One third – 3 nos., One fourth – 4 nos., One tenth – 10 nos. • Full square - 1 no., Half square – 2 nos. , One third – 3 nos., One fourth – 4 nos. • Half triangle – 2 nos. , One fourth triangle – 4 nos
10. Package	Ziploc plastic cover of 250 micron

Fraction Strips



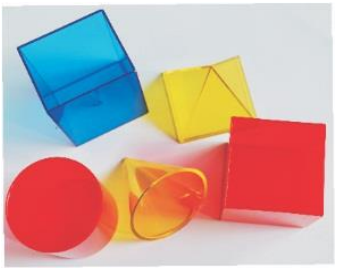
1. Serial No. of the	Item - 7
2. Title of the Item	**Fraction Strips**
3. Description of the Item	Fraction strips consists of colour coded, proportionally sized fraction pieces that represent 1, 1/2, 1/3, 1/4, 1/5, 1/6, 1/7, 1/8/,1/9 and 1/10. Each strip has its fraction equivalent printed on it. Fraction strips as a visual aid helps to understand fractions and in discovering fraction relationships and equivalent fractions.
4. Size	380mmx35mm - 1, 190mmx35mm - 2, 127mmx35mm - 3, 95mmx35mm - 4, 76mmx35mm - 5, 63mmx35mm - 6, 54mmx35mm - 7, 48mmx35mm - 8, 42mmx35mm - 9, 38mmx35mm - 10
5. Material	EVA Foam – Ethylene Vinyl Acetate
6. Colour	In Red, Green, Blue, Yellow,
7. Print	Fraction numbers printed in black colour
8. Finish	Smooth with durable printing
9. Quantity	1 set consists of 55 pieces
10. Package	Ziploc plastic cover of 250 micron

Geoboard



1. Serial No. of the	Item - 8
2. Title of the Item	**Geoboard**
3. Description of the Item	Double sided Geoboard 200 mm square in wood. Geometric shapes can be formed by stretching rubber bands from peg to peg on both sides and helps to learn about area, perimeter, congruency and symmetry.
4. Size	d. Base - 200mm square e. Pins - 9 mm long X 6 mm dia f. Rubber bands - 4”
5. Material	• Base - Wood • Pins – High Density Polyethylene I50A180A G-LENE (insert moulded with m.s.pins) • Rubber Bands – Rubbber
6. Colour	• Natural • Yellow • Red, Green, Blue, Yellow, White & Orange
7. Print	N/A
8. Finish	Smooth
9. Quantity	1 set consists of • Geoboard – complete 1 no. • Rubber bands – 6 nos.
10. Package	Packed in Carry Box

Geosolids with nets



1. Serial No. of the	Item - 9
2. Title of the Item	**Geosolids with Nets**
3. Description of the Item	Geosolids are hollow geometric shapes made of transparent plastic and consist of square, circle, triangle and rectangle in the form of prisms and pyramids. These along with fold out nets of paper inside the hollow shapes help in learning about perimeter, area and volumes. Nets are 2D shapes and 3D shapes object made of paper and can be folded and placed inside the corresponding geosolids to teach the concept of surface area of 3D objects..
4. Size	Geosolids - • Cylinder – 64 mm diameter and 64 mm height with cover • Cube – 62 mm X 62 mm x 62 mm with cover • Cuboid – length (*l*) – 82 mm, Width (*w*) with cover – 58 mm, Height (*h*) – 64mm • Cone – Base – 64 mm with cover, Height – 64 mm. • Pyramid – Base 64 mm X 64 mm square with cover, height – 64mm.
5. Material	• Geosolids – Styrene Acrylo Nitrile • Cover - – Styrene Acrylo Nitrile • Nets - Paper (220 micron)
6. Colour	• Cube – Red, Cuboid – Blue, Cylinder – Red, Cone – Yellow, Square Pyramid – Yellow (all are transparent) • Colourless (Transparent) • Nets – White
7. Print	N/A
8. Finish	Smooth
9. Quantity	1 set consists of • 5 Nos. Geosolids • 10 Nos. of Paper Nets
10. Package	Ziploc plastic cover of 250 micron

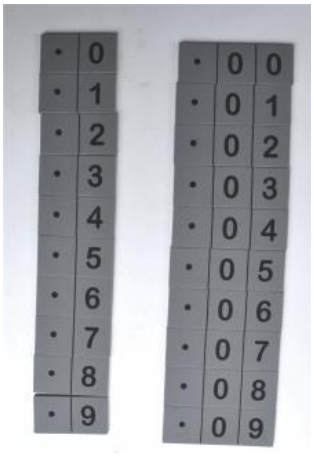
Measuring Tape

1. Serial No. of the	Item - 10
2. Title of the Item	**Measuring Tape**
3. Description of the Item	Measuring tape with calibration in inches and millimeters to aid in learning measurement concepts.
4. Size	1.5 meters / 60 inches
5. Material	Plastic
6. Colour	Multi colours
7. Print	Black colour
8. Finish	Smooth
9. Quantity	1 No
10. Package	Ziploc plastic cover of 250 micron

Number Beads

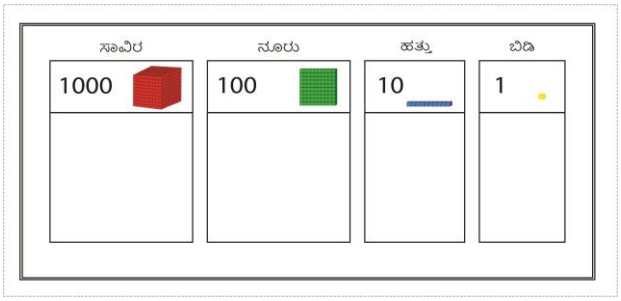
1. Serial No. of the	Item - 11
2. Title of the Item	**Number Beads**
3. Description of the Item	A String of one hundred beads that alternate between red and white colours in groups of ten. Number Beads are used to count, add, subtract by using jumps and not counting the beads one at a time which helps to mentally estimate and compute addition or subtraction upto hundred.
4. Size	Beads -13 mm length X 6 mm hole X 13 mm outer dia String - Approximately 2 mtrs.
5. Material	Polypropylene
6. Colour	White and Red
7. Print	N/A
8. Finish	Smooth Rope ends knotted securely
9. Quantity	1 set consists of 50 Nos white beads & 50 Nos Red Beads on rope
10. Package	Ziploc plastic cover of 250 micron

Place Value Decimal Strips



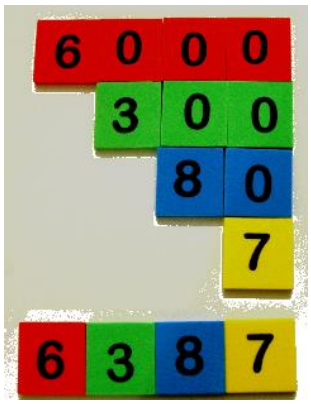
1. Serial No. of the	Item - 12
2. Title of the Item	**Place Value Decimal Strips**
3. Description of the Item	Place value decimal strips used to introduce the concept of decimal place values, adding and subtracting decimals and identifying the decimal numeric and fraction values of the places.
4. Size	70mmx35mm of 2 rows, 105mmx35mm of 3 rows.
5. Material	EVA Foam – Ethylene Vinyl Acetate
6. Colour	Grey colour
7. Print	Decimal numbers printed in black colour
8. Finish	Smooth and durable printing
9. Quantity	1 set consists of Total 20 pcs (0 .0 to 0.9 and 0.00 to 0 .09)
10. Package	Ziploc plastic cover of 250 micron

Place Value Mat



1. Serial No. of the	Item - 13
2. Title of the Item	**Place Value Mat**
3. Description of the Item	Describes the place value of ones, tens, hundreds and thousands. It helps children to understand the importance and concept of place value. They can be used to teach addition and subtraction with borrow and carryover
4. Size	Sheet size 39” X 17” Printing size 36.5” x 15”
5. Material	Vinyl Sheet
6. Colour	White
7. Print	Printing in Multi colour
8. Finish	Smooth and Durable printing
9. Quantity	1 No.
10. Package	In carry Box

Place Value Strips

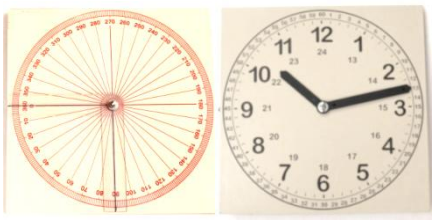


1. Serial No. of the	Item - 14
2. Title of the Item	**Place Value Strips**
3. Description of the Item	Colour coded strips to represent place value of numbers namely units, tens, hundreds and thousands. The cards provide a visual representation of place value and a hands-on method for teaching place value of numbers.
4. Size	35mmx35mm of 1 row, 70mmx35mm of 2 rows, 105mmx35mm of 3 rows. 140mmx35mm of 4 rows.
5. Material	EVA Foam – Ethylene Vinyl Acetate
6. Colour	Red, Green, Blue, Yellow,
7. Print	Numbers printed in black colour
8. Finish	Smooth and Durable printing
9. Quantity	1 set consists of • Yellow - 10 pcs. (0 to 9) • Blue - 10 pcs. (00 to 90) • Green - 10 pcs. (000 to 900) • Red - 10 pcs. (0000 to 9000)
10. Package	Ziploc plastic cover of 250 micron

Play Money and Coins

1. Serial No. of the	Item - 15
2. Title of the Item	**Play Money and Coins**
3. Description of the Item	Rupees of different denominations printed and laminated to look like real money and coins made of plastic. Money as a manipulative gives the tactil reinforcement of counting, addition, subtraction, breaking up into change and smaller denominations, in real life situations. Play money gives the children the opportunity to understand daily money transactions.
4. Size	g. Rupee Note 1 Rupee - 60 X 35 mm 10 Rupee - 75 X 37mm 100 Rupee - 95 x 45 mm 1000 Rupee - 105 X 45 mm 2 Rupee - 60 X 35 mm 5 Rupee - 60 x 35 mm 50 Rupee - 95 X 45 mm 500 Rupee - 105 x 45 mm h. Coins 1 paise - 25 mm square 10 paise - 31 mm dia
5. Material	• Rupees Note – 120 gsm Paper with lamination • Coins - Acrylo Butadene Styrene
6. Colour	• Rupee Notes - Multi colour • Coins - Grey Colour
7. Print	Actual Rupee notes scanned and printed to different size to the original with “Play Money” printed on all the notes.
8. Finish	Attractive and smooth
9. Quantity	1 set consists of • Rupees 1, 10,100,1000 – 150 Nos. in each denomination • Rupees 2, 5, 50, 500 – 30 Nos. in each denomination
10. Package	Ziploc plastic cover of 250 micron

Clock & Protractor



1. Serial No. of the	Item - 16
2. Title of the Item	**Clock & Protractor**
3. Description of the Item	**Clock –** Analogue clock in wood showing 24 hour time to explore telling time and also to learn to calculate the elapsed time. Clock as a manipulative helps to visually and in a tactile way to learn the difference between hours and minutes. The equivalent 24 hour time scale is also added. **Protractor –** A full circle protractor with a 0-360 degree scale. Measurements are numbered every 10® with single-degree markings. The protractor can be used to measure angles drawn with the angle measure and can also to be used to draw and measure circles and angles.
4. Size	Clock / Protractor Base - 9.5 inches square
5. Material	a. Base - MDF b. Clock Hands – Glass Filled Nylon 30% c. Angle Measure Device – Acrylic Natural d. Hardware – S.S & M.S plated
6. Colour	a. Base - Cream/White b. Clock Hands – Black c. Angle Measure Device – Natural
7. Print	Clock printed in Black colour & Protractor printed in Red colour (Back to Back)
8. Finish	Smooth and durable printing
9. Quantity	1 No.
10. Package	Ziploc plastic cover of 250 micron

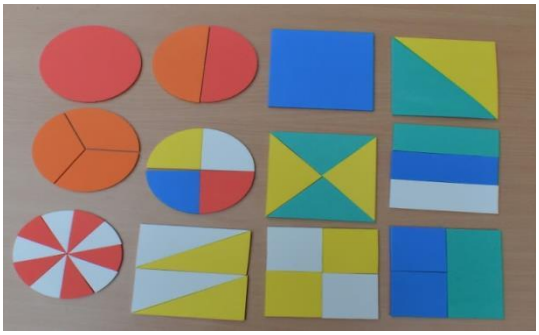
Square Counters

1. Serial No. of the	Item - 17
2. Title of the Item	**Square Counters**
3. Description of the Item	1" Squares in five different colours, Red, Green, Blue, Yellow, Orange used for developing early math concepts associated with number sense like counting, sorting and to teach addition, subtraction, multiplication and division and also for introducing geometric concepts like area and perimeter.
4. Size	1" Square
5. Material	EVA Foam – Ethylene Vinyl Acetate
6. Colour	Red, Green, Blue, Yellow, Orange
7. Print	N/A
8. Finish	Smooth
9. Quantity	1 set consists of 50 Nos. (10 Nos. each in Red, Green, Blue, Yellow, Orange)
10. Package	Ziploc plastic cover of 250 micron

Tangram

1. Serial No. of the	Item - 18
2. Title of the Item	**Tangram**
3. Description of the Item	1 set of Tangram shapes in yellow. The seven shapes have proportional sides and hence can be used to explore geometric concepts like symmetry and congruency and also teach fraction relationships and as puzzles in which all seven pieces must be put together to create various shapes.
4. Size	9 cm square
5. Material	EVA Foam – Ethylene Vinyl Acetate
6. Colour	Yellow
7. Print	N/A
8. Finish	Smooth
9. Quantity	1 set (7 pcs of tan).
10. Package	Ziploc plastic cover of 250 micron

Weighing Balance with Volume Measure



1. Serial No. of the	Item - 19
2. Title of the Item	**Weighing Balance with Volume Measure**
3. Description of the Item	The weighing balance made of plastic with 2 one liter volume measures, marked in milliliters are removable and made of clear plastic to see what is being weighed. It can be used to weigh solids and liquids and makes an excellent tool to understand the volume weight relationship
4. Size	Length 370 mm X width 110 mm X Height 135 mm
5. Material	Balance Body, Stand, Cap, Zero balance Components are moulded using Acrylo Butadene Styrene Volume Measure – Styrene Acrylo Nitrile
6. Colour	Balance Body – Green, Stand - Blue, Cap - Yellow Zero balance – Green Volume Measure –Natural
7. Print	Screen Printing done on side of the Volume Measure
8. Finish	Smooth with durable printing
9. Quantity	1 No.
10. Package	Carton Box - Length 360 mm X Width 140 mm X Height 140 mm

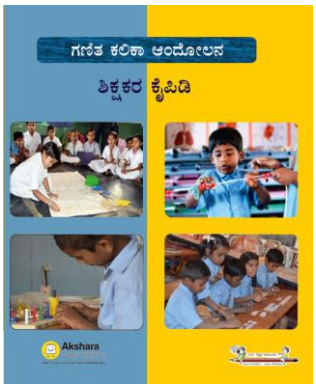
Carry Box

1. Serial No. of the	Item - 20
2. Title of the Item	**Carry Box**
3. Description of the Item	Carry Box made of extruded high strength polypropylene material strong enough to carry the Math Kit items and can be transported without damage to itself or its contents. It is capable of repeated use in the school. It is also splash proof. Two handles given on the sides for easy carriage.
4. Size	14.75 x 12 x 9 inches with provision for locking
5. Material	Extruded sheet of Polypropylene
6. Colour	White / Blue
7. Print	N/A
8. Finish	Rigid and smooth
9. Quantity	1 No.
10. Package	Math Kit items are packed in this box

Math concept cards

1. Serial No. of the materials	Item - 21
2. Name of the materials	Math concept cards
3. Description of the materials	A set of 10 cards containing illustration and short stories for familiarizing the terminologies related to math concepts. It also provides questions which encourages critical thinking among children. Kannada and Urdu cards will be distributed based on the medium of instructions in the schools.
4. Size	8 inches x 11 inches
5. Material	220 Grams per Square Metre Art Board.
6. Colour	White paper with black colour printing.
7. Print	Single color print on both side
8. Finish	Gloss lamination on both side
9. Qty	One set of 10 cards to each school. Kannada or Urdu cards depending on the medium of instruction.
10. Package	It will be packed along with the math kit

Ganitha Kalika Andolana Teacher's manual



1. Serial No. of the materials	Item - 22
2. Name of the materials	Ganitha Kalika Andolana Teacher's manual
3. Description of the materials	A 70 page book supplied for teachers providing guidelines on usage of the TLMs in the kit. It has one art board sheet to demonstrate the symmetrical shapes.
4. Size	8 inches x 11 inches
5. Material	• Cover page 220 Grams per Square Meter, gloss board with gloss lamination. • Inside Paper – 80 Grams per Square Meter, Maplitho Paper. • Die-punch - 1 page - 220 Grams per Square Meter, Art Board
6. Color	Multi-color - Cyan, Magenta, Yellow, and Key (black)
7. Print	Multi-colour printing.
8. Finish	Gloss lamination of cover page with perfect binding.
9. Qty	One manual per kit.
10. Package	NA