

Science Shop



S T E M

Teaching Learning Material



VIKRAM A SARABHAI
COMMUNITY SCIENCE CENTRE

Maths Lab

Set of Mathematics TLM for Schools



Maths Lab package for Primary and Secondary schools contains set of mathematics teaching aids, which have been carefully selected based on the topics covered in the syllabus, from the point of view of making teaching process interesting and engaging. It includes user manual with a detailed description of each of the models and its use.

Maths lab package

- Helps students to have deeper understanding of the concepts
- Helps teachers to move from traditional chalk and talk to more collaborative approach
- Is ideal for setting up Maths Lab in school

Maths Lab Primary package contains

31 Teaching Aids, 35 Activities

Maths Lab Secondary package contains

40 Teaching Aids, 41 Activities



User Manuals available in English, Hindi, Gujarati



www.scienceshop.vascsc.org

Available @
VASCSC SCIENCE SHOP

94284 05408

A. Teaching Learning Material (TLM)

(Rates w.e.f. 1 July 2022)

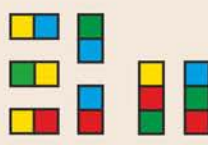
Sr. No.	Name of Item	Language	Subject	Level	Rate* ₹
1	Learn with Magnets	E/G/H	Physics	Std. 5-7	800
2	Reflection of Light	E/G/H	Physics	Std. 5-8	600
3	Play with Light	E/G	Physics	Std. 6+	800
4	Learn about Electricity	E/G	Physics	Std. 6-8	200
5	<i>Bal, Gati ane Yantra</i>	G	Physics	Std. 7+	350
6	Coupled Pendulum	E/G/H	Physics	Std. 6-8	900
7	Newton's Cradle	E/G/H	Physics	Std. 8+	400
8	Double Cone	E/G/H	Physics	Std. 8+	250
9	Learn Soldering	E/G	Physics	Std. 11+	840
10	Chem for Kids	E	Chemistry	Std. 2-4	800
11	Separation of Substances	E/G/H	Chemistry	Std. 5-7	210
12	Electrolysis of Water	E/G/H	Chemistry	Std. 6-8	800
13	Acid Base Experiments	E/G	Chemistry	Std. 6-10	500
14	Structure of Atom	E/G/H	Chemistry	Std. 7-9	800
15	My Science Lab	E/G	Science	Std. 6+	3000
16	Water Booster Model Rocketry Kit	E	Space Science	Std. 8-12	4200
17	Make a Chuck Glider	E	Aeronautics	Std. 6+	210
18	Learning Arduino - For Beginners	E	Electronics	Std. 6+	1200
19	Maths Lab - Preparatory Package	E/G	Mathematics	Std. 1-5	13500
20	Maths Lab - Primary Package	E/G/H	Mathematics	Std. 1-7	10500
21	Maths Lab - Secondary Package	E/G/H	Mathematics	Std. 8-12	12500
22	Spike Abacus	E/G	Mathematics	Std. 1+	500
23	Number Line	E/G	Mathematics	Std. 1+	270
24	Cuisenaire Strips	E/G/H	Mathematics	Std. 1+	330
25	Geometrical Solids	E/G/H	Mathematics	Std. 1-4	390
26	Tangram	E/G	Mathematics	Std. 2+	140
27	The Cardio Tangram	E/G	Mathematics	Std. 2+	125
28	The Egg Puzzle	E/G	Mathematics	Std. 2+	125
29	Two Congruent Right Triangles	E/G/H	Mathematics	Std. 2+	250
30	Diene's Block	E/G	Mathematics	Std. 2+	1400
31	Place Value Cards	E	Mathematics	Std. 2+	390
32	Parking Puzzle	E/G/H	Mathematics	Std. 3+	130
33	Bring the Cat Out	E/G/H	Mathematics	Std. 3+	150
34	Pentominoes	E/G	Mathematics	Std. 3+	150

E = English, G = Gujarati, H = Hindi

*GST extra, as applicable

A. Teaching Learning Material (TLM)

Sr. No.	Name of Item	Language	Subject	Level	Rate* ₹
35	Make a Cube	E/G/H	Mathematics	Std. 3+	250
36	1 to 6 Number Game	E/G/H	Mathematics	Std. 3+	140
37	1 to 8 Number Game	E/G/H	Mathematics	Std. 3+	210
38	Fraction Strips	E/G/H	Mathematics	Std. 3-4	325
39	4 x 4 Colour Square Puzzle	E/G/H	Mathematics	Std. 4+	120
40	5 x 5 Colour Square Puzzle	E/G/H	Mathematics	Std. 4+	200
41	Pegboard Puzzle	E/G/H	Mathematics	Std. 5+	150
42	Crazy Cubes	E/G	Mathematics	Std. 5+	225
43	Dodecagon and Square	E/G/H	Mathematics	Std. 5+	225
44	Tower of Brahma	E/G/H	Mathematics	Std. 5+	175
45	Make a Square	E/G/H	Mathematics	Std. 5+	160
46	Soma Cube	E	Mathematics	Std. 5+	225
47	Number Shift	E/G	Mathematics	Std. 5+	130
48	Napier's Strips	E/G	Mathematics	Std. 5+	60
49	Sum of Angles of a Triangle	E/G/H	Mathematics	Std. 6+	140
50	$(a+b+c)^2$ Model	E/G/H	Mathematics	Std. 7+	300
51	$a^2 - b^2 = (a+b)(a-b)$ Model	E/G/H	Mathematics	Std. 7+	290
52	$(a+b)^2 - (a-b)^2 = 4ab$ Model	E/G/H	Mathematics	Std. 8+	290
53	$(a+b)^2 + (a-b)^2 = 2a^2 + 2b^2$ Model	E/G/H	Mathematics	Std. 8+	280
54	Pythagoras Theorem (Model - 1)	E/G/H	Mathematics	Std. 8+	325
55	Pythagoras Theorem (Model - 2)	E/G/H	Mathematics	Std. 8+	290
56	Fifteen Blocks Puzzle	E/G/H	Mathematics	Std. 8+	290
57	$(a+b)^3$ Model	E/G/H	Mathematics	Std. 8+	290
58	Hexagonal Section of a Cube	E/G/H	Mathematics	Std. 9+	475
59	$\sum n^2 = n(n+1)(2n+1)/6$	E/G/H	Mathematics	Std. 10+	400



B. Do It Yourself (DIY) TLM

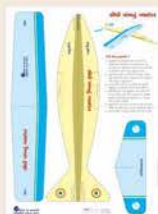
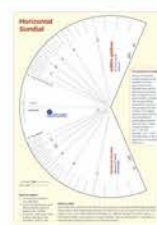
Sr. No.	Name of Item	Language	Subject	Level	Rate* ₹
60	Make a Magic Coin Box (25 Sets)	E/G	Physics	Std. 5+	650
61	Make a Pinhole Camera (50 Sets)	E/G/H	Physics	Std. 5-8	1100
62	Make a Periscope (50 Sets)	E/G/H	Physics	Std. 5-8	1100
63	Make a Lens Camera (25 Sets)	E/G/H	Physics	Std. 5-8	1000
64	Make a Kaleidoscope (25 Sets)	E/G/H	Physics	Std. 5-8	1000
65	DIY Optics Models (5 Models)	E/G/H	Physics	Std. 5-8	175
66	DIY Magic Science Models (3 Models)	E/G	Physics	Std. 5-8	175
67	Make a Toing-Froing Car (10 Sets)	E/G	Physics	Std. 6-7	400
68	Make a VR Box (10 Sets)	E/G/H	Physics	Std. 7+	1400
69	Make a VR Box (1 Set)	E/G/H	Physics	Std. 7+	150
70	Buckyball : The Magical Molecule (50 Nos.)	E	Chemistry	Std. 6+	400
71	Learn Phototropism (50 Nos.)	E/G	Biology	Std. 5+	550
72	<i>Sukshma Darshi Saranchano Shikho</i> (50 Nos.)	G	Biology	Std. 6+	550
73	Make Types of Adaptations Chart (50 Nos.)	E	Biology	Std. 6-7	400
74	Learn Camouflage Adaptations (50 Nos.)	E	Biology	Std. 6-7	400
75	Learn Nature Inspired Design (50 Nos.)	E	Biology	Std. 7+	550
76	Human Blood Circulatory System (25 Sets)	E/G	Biology	Std. 6-7	550
77	Make a Human Skeleton Model (50 Nos.)	E/G	Biology	Std. 6-8	800
78	Make an Ecological Pyramid (50 Nos.)	E/G	Biology	Std. 6-8	550
79	Make a Leaf Cube Model (50 Nos.)	E/G	Biology	Std. 6-8	550
80	Make a Soil Biodiversity Pyramid (50 Nos.)	E/G	Biology	Std. 6-8	300
81	Make a Bacteriophage Model (50 Nos.)	E/G	Biology	Std. 6-8	600
82	DIY Biology Models (5 Models)	E/G	Biology	Std. 6-8	125
83	Make a Communication Satellite Model (50 Sets)	E/G	Space Science	Std. 7+	650
84	Make a Model Rocket (50 Nos.)	E/G	Space Science	Std. 7+	550
85	DIY WB Rocket and Satellite Model (2 Models)	E/G	Space Science	Std. 7+	200
86	Make a Straight Wing Glider (50 Nos.)	E/G	Aeronautics	Std. 5-8	300
87	Make a Aero Wing Glider (50 Nos.)	E/G	Aeronautics	Std. 5-8	300
88	Make a Box Telescope (10 Sets)	E/G	Astronomy	Std. 6-8	1000
89	Make a Horizontal Sundial Model (50 Nos.)	E/G	Astronomy	Std. 6-8	300
90	Make a Circumpolar Constellation Dial (50 Nos.)	E/G	Astronomy	Std. 6-8	300
91	Make a Moon Phases Model (50 Nos.)	E/G	Astronomy	Std. 6-8	550
92	Astronomy Basics - DIY Pack (7 Items)	E/G	Astronomy	Std. 6-8	225
93	DIY Science Activity Box - 1	E	Science	Sr. KG-1	500

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*GST extra, as applicable

B. Do It Yourself (DIY) TLM

Sr. No.	Name of Item	Language	Subject	Level	Rate* ₹
94	DIY Science Activity Box - 2	E	Science	Std. 2-4	400
95	Hundreds Chart (50 Nos.)	E/G	Mathematics	Std. 1+	600
96	Two Congruent Right Angle Triangle (50 Nos.)	E/G	Mathematics	Std. 2+	800
97	Make Fraction Strips (50 Nos.)	E/G	Mathematics	Std. 3-4	550
98	Mathematical Envelope (50 Nos.)	E/G	Mathematics	Std. 5+	400
99	3D Shapes (Set of 3D Nets, 21 Shapes)	E/G	Mathematics	Std. 6+	300
100	3D Shapes (Any 1 Net, 50 Nos.)	E/G	Mathematics	Std. 6+	400
101	Make Pythagoras Theorem Model (50 Nos.)	E/G	Mathematics	Std. 6-8	550
102	Make $(a+b+c)^2$ Model (50 Nos.)	E/G	Mathematics	Std. 6-8	550
103	Make $(a+b)(c+d)$ Model (50 Nos.)	E/G	Mathematics	Std. 6-8	550
104	Make $(a+b)^2 - (a-b)^2$ Model (50 Nos.)	E/G	Mathematics	Std. 6-8	550
105	Make $(a+b)^2 + (a-b)^2$ Model (50 Nos.)	E/G	Mathematics	Std. 6-8	550
106	Make $a^2 - b^2$ Model (50 Nos.)	E/G	Mathematics	Std. 6-8	550
107	Make $a^3 + b^3$ Model (50 Nos.)	E/G	Mathematics	Std. 6-8	550
108	Make Angle Sum Property Model (50 Nos.)	E/G	Mathematics	Std. 6-8	550
109	Make Area Formulas Model (50 Nos.)	E/G	Mathematics	Std. 6-8	650
110	Make Volume of Cone & Cylinder Model (50 Nos.)	E/G	Mathematics	Std. 6-8	550
111	DIY Mathematical Models (15 Models)	E/G	Mathematics	Std. 6-8	175
112	DIY Stem Learning Pack - 1	E/G	Science	Std. 1-5	200
113	DIY Stem Learning Pack - 2	E/G	Science	Std. 6+	200



C. Exhibition Panels / Charts / Flash Cards

Sr. No.	Name of Item	Language	Subject	Level	Rate* ₹
114	Periodic Table Chart (23" x 36")	E	Chemistry	Std. 9+	30
115	Chemical Elements on the Cards	E	Chemistry	Std. 9+	280
116	Microscopic Structures (Set of 52 charts)	E	Biology	Std. 8+	700
117	<i>Shukshmadarshi Sanrachnao</i> (Set of 52 charts)	G	Biology	Std. 8+	700
118	Astronomy Charts (Set of 10 charts, 18" x 25")	E	Astronomy	Std. 7+	280
119	Science Gallery (Set of 30 charts, 18" x 25")	E	Science	Std. 5-12	750
120	Vignan Pradarshan (Set of 42 charts, 18" x 25")	G	Science	Std. 5-12	1200
121	Science Gallery (Any 5 charts, 18" x 25")	E/G	Science	Std. 5-12	150
122	Great Mathematicians of the World (Set of 26 charts)	E	Mathematics	Std. 5-10	400
123	<i>Vishvana Mahan Ganitshastriyo</i> (Set of 26 charts)	G	Mathematics	Std. 5-10	400
124	Joy of Mathematics Puzzle Cards (Set of 30 cards)	E	Mathematics	Std. 5-10	90
125	Our Birds Chart	E	Environment	All	30



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D. Publications

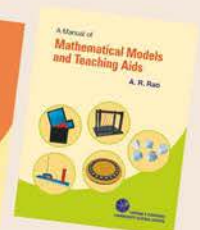
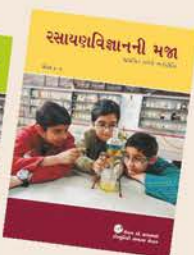
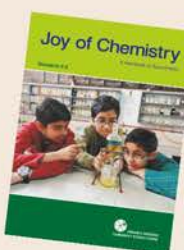
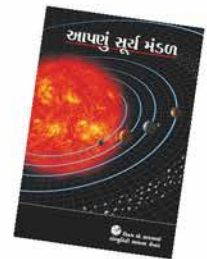
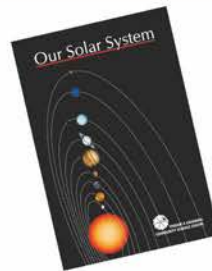
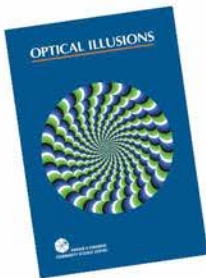
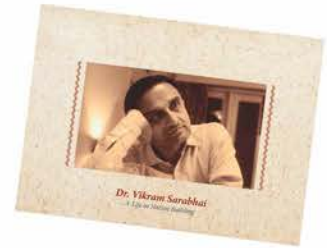
Sr. No.	Name of Item	Language	Subject	Level	Rate* ₹
126	Simple Machines	E	Physics	Std. 5-7	35
127	Our Solar System	E	Physics	Std. 5-10	60
128	Why the Sky is Blue?	E	Physics	Std. 7+	20
129	Joy of Chemistry	E	Chemistry	Std. 6-8	90
130	Brain Sharpeners	E	Mathematics	Std. 7+	120
131	Mathematical Models & Teaching Aids	E	Mathematics	Educators	150
132	Water Booster Model Rocketry Handbook	E	Space Science	Std. 8-12	30
133	Single Stage Model Rocketry Handbook	E	Space Science	Std. 8-12	50
134	Ultrasonic and IR Sensor	E	Electronics	Std. 8-12	60
135	'Joy of Learning' Teachers Manual - 1	E	Science	Std. 3-5	95
136	'Joy of Learning' Teachers Manual - 2	E	Science	Std. 6-8	95
137	Optical Illusions	E	Science	Std. 5+	90
138	Fundamentals of 3D Printing and Designing	E	Science	Std. 8-12	50
139	Dr. Vikram Sarabhai - A Life in Nation Building	E	Science	All	100
140	Where's Away?	E	Environment	Std. 5+	60
141	Environmental Education Handbook	E	Environment	Std. 6-8	150
142	Energy Matters	E	Environment	Std. 6-10	120
143	Earth Charter and Gandhi	E	Environment	All	50
144	Green Games Manual	E	Environment	Educators	50
145	Garbage to Gardens	E	Environment	Educators	60
146	<i>Urja - Ek Parichay</i>	G	Physics	Std. 5+	40
147	<i>Saada Yantro</i>	G	Physics	Std. 5-7	35
148	<i>Aapnu Suryamandal</i>	G	Physics	Std. 5-10	50
149	<i>Akash Bhuru Sha Maate?</i>	G	Physics	Std. 7+	20
150	<i>Rasayanvignan Ni Maja</i>	G	Chemistry	Std. 6-8	90
151	<i>Paryavaran Ane Maaru Jeevan</i>	G	Biology	Std. 3+	40
152	<i>Covid-19 Vignan Parichay Pustika</i>	G	Biology	Std. 6+	40
153	<i>Covid-19 Vignan Pravrutti Pustika</i>	G	Biology	Std. 6+	10
154	<i>Gammat Saathe Vignan</i>	G	Science	Std. 3+	90
155	<i>Kaansa No Rankar</i>	G	Science	Std. 5+	30
156	<i>Drashtibhram - Ek Anokho Sangrah</i>	G	Science	Std. 5+	70
157	<i>Vaignanik Dr. Vikram Sarabhai</i>	G	Science	All	30
158	<i>Vignan Drashti - 1 yr subscription (6 issues)</i>	G	Science	Std. 5-7	240
159	<i>Vignan Drashti - Old Issues (Set of 6)</i>	G	Science	Std. 5-7	90

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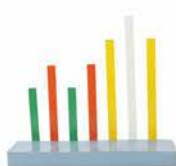
D. Publications

Sr. No.	Name of Item	Language	Subject	Level	Rate* ₹
160	'Shikhvano Anand' Teachers Manual - 1	G	Science	Std. 3-5	95
161	'Shikhvano Anand' Teachers Manual - 2	G	Science	Std. 6-8	95
162	'Shikhvano Anand' Teachers Manual - 3	G	Science	Std. 9-11	120
163	Buddhi Kaso	G	Mathematics	Std. 7+	120
164	Ganitik Model ane Shaikshanik Sadhano	G	Mathematics	Educators	150
165	Prakruti Parichay (Pakshi Nirikshan, Shreni 1 - 4)	G	Environment	All	540
166	Ganitiya Model Tatha Shaikshanik Sadhan	H	Mathematics	Educators	150
167	Brain Sharpeners in Hindi	H	Mathematics	Std. 7+	120
168	Standhari Parichay Pustika	H	Environment	Std. 6+	90
169	Vanaspati Nirikshan Pustika	H	Environment	Std. 6+	90



E. Interactive Exhibits & Exhibitions

Sr. No.	Name of Item	Language	Subject	Level	Rate* ₹
170	Angle Between Mirrors	E/G/H	Physics	Std. 5-7	1200
171	Giant Yo-Yo	E/G/H	Physics	Std. 5-7	1400
172	Phenakistoscope	E/G/H	Physics	Std. 5-7	2500
173	Lever Model (Large, Metal frame)	E/G/H	Physics	Std. 6-8	3000
174	Lens Camera	E/G/H	Physics	Std. 6-8	5000
175	Giant Periscope (With display stand)	E/G/H	Physics	Std. 6-8	13800
176	Giant Periscope (Without display stand)	E/G/H	Physics	Std. 6-8	8700
177	Double Periscope	E/G/H	Physics	Std. 6-8	4500
178	Newton's Cradle (Large)	E/G/H	Physics	Std. 6-10	3500
179	Centripetal Force	E/G/H	Physics	Std. 7-9	3500
180	Resonance Strips	E/G/H	Physics	Std. 8+	1000
181	Gravity Tower	E/G/H	Physics	Std. 8-10	1200
182	Double Cone (Large, Metal frame)	E/G/H	Physics	Std. 8-10	5000
183	Focault's Pendulum	E/G/H	Physics	Std. 8-10	900
184	Periodic Table - Panel (5' x 3.5')	E	Chemistry	Std. 9+	3500
185	Electron Energy Level	E/H	Chemistry	Std. 9+	4500
186	Annual Rings of a Tree (Large)	E/G/H	Biology	Std. 6+	1600
187	Human Blood Circulatory System (Flex, 10' x 12')	E/G/H	Biology	Std. 6-7	3000
188	Exhibition Panel (Any one, 2' x 3')	E/G/H	Science/Maths	Std. 5-12	600
189	Science Exhibition (Set of 30 Panels, 2' x 3' each)	E	Science	Std. 5-12	15750
190	Vignan Pradarshan (Set of 42 Panels, 2' x 3' each)	G	Science	Std. 5-12	22000
191	Number Line (Large Flex, 25' x 3')	E/G	Mathematics	Std. 1+	2700
192	Topology Puzzle	E/G/H	Mathematics	Std. 5+	1000
193	Brachistochrone	E/G/H	Mathematics	Std. 8+	3500
194	Height Measurement Chart - Panel (2' x 6' 3")	E/G/H	Mathematics	All	2500
195	Height Measurement Chart - Roll (2' x 6' 6")	E/G/H	Mathematics	All	1200
196	Display Stand for Write-ups of Exhibits (Acrylic)	-	-	-	250



* Interactive exhibits delivery schedule: Up to 3 months after receiving confirmation and payment, depending on the type, quantity and stock availability.

Experiment Essentials...

Experiment, Explore, Enjoy!



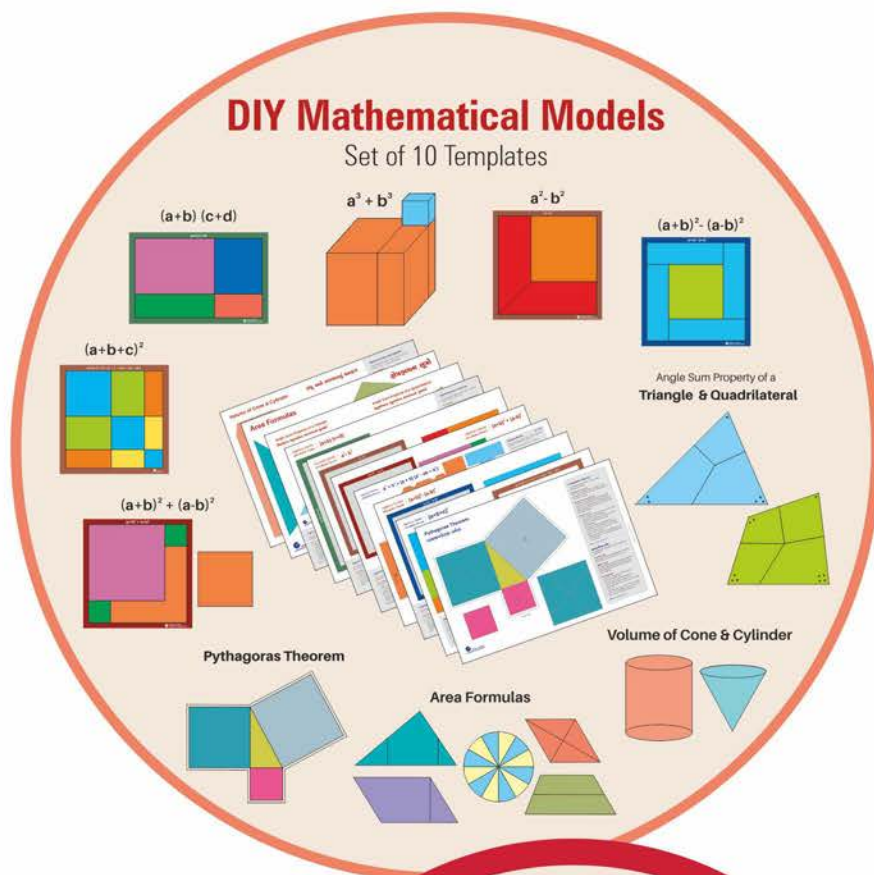
- 50+ Lab Items & User Guide Inside
- Suitable for Individual Use
- Useful for Curriculum-based Experiments
- Learn with Hands-on Experience
- Prepared by Science Educationists

or
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VASCSC SCIENCE SHOP

 94284 05408

Vikram A Sarabhai
Community Science Centre
 (VASCSC) is a pioneering institution, founded by Dr. Vikram Sarabhai in 1966. Its mandate is to stimulate interest, encourage and expose the principles of science and scientific method to the community. The Centre has developed a wide range of Teaching Learning Material (TLM), especially for teachers and students. The TLM develops curiosity and interest for learning science and mathematics by demonstrating fun aspect of these subjects. The TLM can be used in schools or homes and also make up exciting gift items.



Please note

- (1) All rates are ex-VASCSC, Ahmedabad.
- (2) Cost of packaging and courier will be extra @ 10% of the total bill amount.
- (3) GST shall be payable extra, as applicable.
- (4) Payment schedule - 100% advance.
- (5) Payment can be made by cash, bank transfer or DD/Cheque in favour of 'Vikram A Sarabhai Community Science Centre', payable at Ahmedabad.
- (6) Specify language requirement wherever necessary.
- (7) Material delivery subject to stock availability.
- (8) VASCSC reserves the right to change specifications and rates without prior notice.

Timings

Tuesday to Saturday
 9:30 am - 5:30 pm
 Sunday
 9:30 am - 1:00 pm
 Mondays closed

Order online

www.scienceshop.vascsc.org
 Some products on
www.amazon.in

Contact

Email: science.shop@vascsc.org
 Helpline: +91 9428405408
 (During office hours only)



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