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Primary STEM kit

50+ Engaging learning activities for Class III, IV & V

5 Sets of material for each activity.

With detailed user manuals













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Primary STEM kit

Class III



Shapes & Puzzles



Measurements



Animation toys



Birds

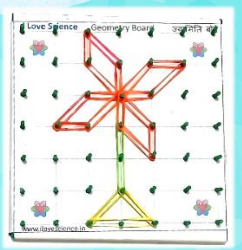


Plants & Food

S. No.	Topic	Activities
Maths		
1	Shapes and puzzles:	Develop interest in geometrical shapes. 1. Patterns using plastic stencil, 2. Circle maker. 3. Tangram puzzle, 4. Jigsaw puzzle.
2	Calculations & measurements (III):	5. Base-10 blocks to do addition and subtraction. 6. Multiplication by sticks. 7. Learn to measure distances using an inch tape. 8. Make a height measurement chart.
EVS/STEM		
3	Animation toys (Moving images)	Understand persistence of vision and scientific concept of animated movies. 9. Merging two images one as in “Parrot in the cage”. 10. A running boy flipbook. 11. Make a Zoetrope to make animated movie.
4	Birds, beaks and claws	12. Assemble 3 types of bird beaks to understand their shape and function. 13. Use different types of bird claws to understand their function. (Perching bird, Talons, Wading bord) 14. Make a flying action parrot.
5	Plants & Food	15. Identify which food items come from which part of plant. 16. Plant care board game. 17. Plant cycle puzzle 18. Seed germination activity with different types of seeds.

Primary STEM kit

Class IV



Geoboard & 3D shapes



Measurements



Gravity toys



Energy toys



Water filtration

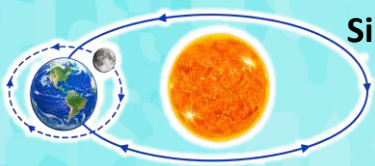
S. No.	Topic	Activities
Maths		
1	Geoboard & 3D shapes:	1. Make your own Geoboard and make various geometrical shapes from rubber bands. 2. Touch and feel understanding of different angles in various geometrical shapes. 3. Assemble your own 3D shapes like Cube, Pyramid, Cylinder etc.
2	Calculations & measurements (IV):	4. Make your abacus to do addition and subtraction. 5. Make Fractions to understand them. 6. Make a clock to read time. 7. Make a working model of a weighing scale,
EVS/STEM		
3	Gravity toys	Make toys which help understand concepts gravity. 8. A working parachute toy, 9. Tumbling toy 10. Balancing toy,
4	Energy toys	Make toys that work on concept of energy stored in rubber band or by stretching or bending things. 11. Balloon powered car. 12. Catapult. 13. A paper cone arrow.
5	Water filtration	Assemble a 4-stage water filter to understand different techniques for water filtration using: 14. Filtration using pebbles and sand. 15. Sedimentation, decantation 16. Using filter paper.

Primary STEM kit

Class V



Maths patterns



Sun & Moon



Sink or float



Simple machines



Money calculations



States of matter

S. No.	Topic	Activities
Maths		
1	Mathematical patterns	1. Make a reusable magnetic calendar to observe number patterns. 2. Make Tessellation patterns.
2	Money calculations	3. Money related calculations using toy currency notes. 4. Learn to make simple bills as done by shops. 5. Learn money transactions when we do shopping.
EVS/STEM		
3	Simple Machines	Understand working concept of simple machines 6. Lever 7. Pulley 8. Inclined plane 9. Wheel & Axle 10. Gears.
4	Sink or Float (Density)	Understand the concept of density, and floating objects. 11. Make a boat with rubber foam. 12. Make a metallic boat (ship) 13. Make a plastic boat that floats between oil & water. 14. Make a bottle diver to understand how a toy can float or sink like a submarine.
5	Sun and moon	Make a model of Sun Earth and moon to visualize 15. How day and night are formed, How one day, one month and one year are formed and how Lunar and Solar eclipse happen with relative movement of earth, moon and Sun. 16. Make a flipbook to study phases of moon.
6	States of matter	Activities to understand properties of Solid-Liquid and Gas. 17. Compression in gases using a syringe. 18. Surface tension in liquids by making soap bubbles. 19. Make solid shapes from POP powder to understand non reversible chemical change in matter.

5 sets of material for all activities. Except for Water filter 3 sets, Plastic boat 2 sets, States of matter 3 sets.
Other accessories like scissors, glue and tape are also included.