

Anemometer

Watch the cups turn with the breeze and compare their rotation to see how wind speed changes.

Concepts covered

Wind speed

Air movement

Energy transfer



Setting
Outdoor



Size
**10 feet high;
18 inch blades**



Maintenance
Every 3 years



Price
₹27,000

Newton's Cradle

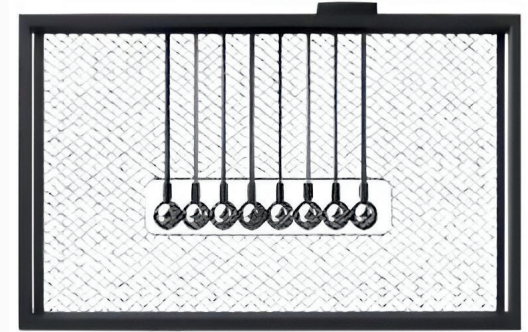
Lift and release one or more balls and watch the motion travel through the cradle.

Concepts covered

Momentum

Collisions

Transfer of motion



Setting
Indoor / Outdoor



Size
24 x 24 x 15 inch



Maintenance
Very low



Price
₹57,000

Defying Gravity

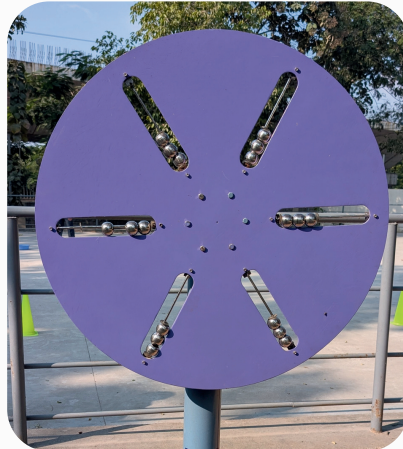
Set the disc spinning and observe how the spinning motion affects the movement of the objects on it.

Concepts covered

Rotation

Inertia

Circular motion



Setting
Indoor / Outdoor



Size
**4 feet high; 2
feet diameter**



Maintenance
Every 3 years



Price
₹40,000

Double-Ended Cone

Release the cone and watch it appear to roll uphill, then investigate how its shape and centre of mass affect what you see.

Concepts covered

Centre of mass

Balance

Gravity



Setting
Indoor / Outdoor



Size
2 x 2 x 7 feet



Maintenance
Very low



Price
₹52,000

Chair of Nails

Sit or press against the bed of nails and observe how the force is spread across many contact points.

Concepts covered

Pressure

Force distribution

Surface area



Setting
Indoor / Outdoor



Size
18 x 18 x 38 inch



Maintenance
Very low



Price
₹40,000

Moment of Inertia

Compare how objects with different mass distributions respond to rotation and notice which are easier or harder to turn.



Concepts covered

Moment of inertia

Rotation

Angular momentum



Setting
Indoor / Outdoor



Size
2 x 3 x 10 feet



Maintenance
Very low



Price
₹75,000

Metal Gongs

Strike the different metal plates and compare the sounds and vibrations they produce.



Concepts covered

Vibration

Sound

Material properties



Setting
Outdoor



Size
4 x 12 feet



Maintenance
Very low



Price
₹65,000

Resonance Pipes

Make the pipes resonate and compare how their different lengths affect the sound you hear.



Concepts covered

Vibration

Sound

Resonance



Setting
Indoor / Outdoor



Size
Frame of 5 x 4 x 3 feet; Pipe lengths of 3, 3.5 and 4 feet;



Maintenance
Very low



Price
₹30,000

Striped Mirrors

Look through the striped mirrors and move around to see how reflected and transmitted light change what you can see.

Concepts covered

Reflection

Light transmission

Line of sight



Setting
Indoor / Outdoor



Size
2 x 6 feet



Maintenance
Very low



Price
₹40,000

3D Funnel Optical Illusion Disc

Spin the patterned disc and watch a flat pattern appear to form a three-dimensional funnel.

Concepts covered

Visual perception

Persistence of vision

Motion



Setting
Indoor / Outdoor



Size
4 feet high; 18 inch diameter



Maintenance
Every 3 years



Price
₹30,000

Black & White Circular Optical Illusion Disc

Spin the black-and-white pattern and observe how the moving design changes what you perceive.

Concepts covered

Visual perception

Persistence of vision

Motion



Setting
Indoor / Outdoor



Size
4 feet high; 18 inch diameter



Maintenance
Every 3 years



Price
₹30,000

Colourful Circular Optical Illusion Disc

Spin the coloured pattern and observe how the colours appear to blend or change as the disc moves.

Concepts covered

Colour perception

Persistence of vision

Motion



Setting
Indoor / Outdoor



Size
4 feet high; 18 inch diameter



Maintenance
Every 3 years



Price
₹30,000

13 · Light

Infinity Well

Look into the well and observe reflections repeating into the distance, creating the appearance of an endless space.

Concepts covered

- Reflection
- Multiple reflections
- Visual depth



Setting
Indoor



Size
12 inch diameter;
20 inch height



Maintenance
Every 18 months



Price
₹40,000

14 · Light

Multiple Reflections

Change the angle between the mirrors and observe how the number of visible reflections changes.

Concepts covered

- Reflection
- Multiple reflections
- Angles



Setting
Indoor / Outdoor



Size
30 inch height;
2 ft diameter



Maintenance
Very low



Price
₹26,000

15 · Light & Heat

Planck's Constant

Touch and compare differently coloured surfaces to discover which surfaces become hotter.

Concepts covered

- Colour
- Light absorption
- Heat



Setting
Outdoor



Size
2.5 x 3 x 8 feet



Maintenance
Very low



Price
₹27,500

16 · Light

Invisible Statues

Move around the installation and discover how changing your viewpoint can make parts of the statue appear or disappear.

Concepts covered

- Perspective
- Viewpoint
- Visual perception



Setting
Outdoor



Size
30 x 20 x 10
inch



Maintenance
Very low



Price
₹65,000

Periscope

Turn the viewing mechanism and use the mirrors to see objects that are not directly in your line of sight.

Concepts covered

- Reflection
- Multiple reflections
- Line of sight



Setting
Outdoor



Size
10 x 1.5 x 1.25 feet



Maintenance
Very low



Price
₹76,000

Pythagoras Theorem

Rearrange the pieces and compare their areas to discover the relationship between the three sides of a right-angled triangle.

Concepts covered

- Right-angled triangles
- Area
- Geometric relationships



Setting
Indoor / Outdoor



Size
3 ft x 3 ft x 3t



Maintenance
Very low



Price
₹50,000