

Developing Scientific outlook in children.

What is Sunday Science School?

Sunday Science School has developed an Academic year-based program for students to explore Science by doing it and thereby enrich their knowledge sphere. The concept is promoted and nurtured by people, who are active for over 20 years, in development of products and content for "Hands-On Science" for children.

The program is based on experiential learning, which fosters an environment of accelerated learning through self-discovery and participation.

Our attempt is to give children Science Activities to engage them intellectually and physically. The goal is not necessarily to create Scientist but to create civilized citizens with scientific outlook, who apply their Brain to the problems and use scientific approach to find solution.



- Science Exposition at the end of the program.
- Students' presentation skill improvement.

Exploring Magnets



Children will know different types of magnets, their properties, lines of force, induction, electro-magnetism, repulsive force between poles, use of compass, magnetic effect of electricity

- ▶ Study of different magnets, their poles
- ▶ Inducing magnetism
- ▶ Make a floating compass
- ▶ Electricity deflects magnetic needle
- ▶ Make an electromagnet
- ▶ Jumping ring



- ☞ Sunday Science School - Level 1 is a 'hands-on' Activity program of about 20+ sessions of 2 hours each.
 - ☞ Students studying in 6th to 9th std can enroll for this program.
 - ☞ Different topics in science are discussed and students perform activities based on these topics.
 - ☞ All models and experimentation material is given on 'take-home' basis. This Creates a small Lab at home.
- Endless benefits...**
- ☞ Develops scientific outlook
 - ☞ Enhances brain function & episodic memory.
 - ☞ Heightens appreciation of how science works.
 - ☞ Enhances understanding of scientific concepts.
 - ☞ Builds fine motor skills.

We also offer different types of day-long Hands-On Science workshops, year long syllabus mapped activities for CBSC / state schools & more...

Sunday Science School

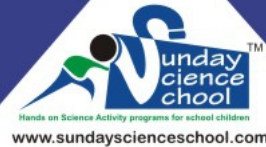


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9 States
 70+ Centers
 35,000+ Students
 have already
 experienced it...



Sunday Science School

Level 1
 For Std 6 to 9

Every
 Sunday
 2 Hours



ACTIVITIES AND TOPICS IN 20 SESSIONS

● Energy

The projects on different energy conversions are done by students. Students also do simple activities to understand concepts, like, force, motion, gravity, velocity, forms of energy etc.,

- ▶ Hydraulic Arm - Pressure and force
- ▶ Make a Solar powered car
- ▶ Understanding Energy
- ▶ Hydroelectricity - Electricity generation
- ▶ Kinetic / Potential energy (Come back jar)
- ▶ Newton's laws, force, friction, gravity



● Biology

- ▶ Understand microscope
- ▶ Dissection of a flower
- ▶ Microscopic observation
- ▶ Observing crystals
- ▶ Paper model to know Human internal organs
- ▶ Making of working lungs model
- ▶ Making paper skeleton and its study

Parents are also invited for session of Microscopic Observations.



● Weather

Students learn to record weather parameters. They develop simple tools for this purpose. This develops habit of scientific data recording.

- ▶ Rain gauge
- ▶ Wind vane
- ▶ Anemometer
- ▶ Cloud cards
- ▶ Nephoscope
- ▶ Tornado formation
- ▶ Temperature Recording
- ▶ Humidity measurement
- ▶ Barometer
- ▶ Recording weather data



● Electricity

Students perform experiments in Electrolytes, make a cell using lemons, make salt battery. Understand how electrons flow and know about basics of Electricity.

- ▶ Electricity from lemon
- ▶ Experiments on static charges
- ▶ Make a ElectroSCOPE
- ▶ Charging & discharging of a ElectroSCOPE
- ▶ Simple circuit
- ▶ Ohm's Law
- ▶ Use of Carbon Resistor
- ▶ Short circuit
- ▶ Circuit using switch
- ▶ Cells in series/parrallel
- ▶ 2 switch 1 bulb
- ▶ Bulbs in series/parrallel
- ▶ Rheostat
- ▶ Potential Difference
- ▶ Resistance of Nichrome



● Chemistry

We encourage children to perform chemical reactions in our presence. This is useful to develop interest in the subject.

- ▶ Testing materials with Litmus papers
- ▶ Acid-Base titration
- ▶ Colour changing activity
- ▶ Disappearing Ink
- ▶ Exothermic reaction
- ▶ Endothermic reaction
- ▶ Nitrogen Dioxide preparation
- ▶ Chemical equilibrium
- ▶ Polymer formation
- ▶ Chromatography
- ▶ Magic with filtration
- ▶ Making a Daniel Cell



● Archimedes' Principle

Children will understand buoyancy, relationship between weight of displaced fluid and buoyant force, measuring volume of irregular shapes, density of objects, Archimedes' principle etc.

- ▶ Mathematical methods to find density
- ▶ Making of Hydrometer
- ▶ Density, volume using displaced fluid method
- ▶ Calculating buoyant force
- ▶ Application of Archimedes' principle

