



MARATHI VIDNYAN PARISHAD

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Program Guide

(Marathi Vidnyan Parishad has been mentioned as MVP in an abbreviated form.)

1.0 Science Clubs and Nature Study

When students do things with their own hands they remember them life long, get attracted to science and develop a scientific temper.

- 20 students of standard 7 and 8 each. Club activity is for 2 hours per week.
- There are two types of membership. Schools can choose any one they like,
- Only guide book is provided to run the club (Fees: Rs.100/-).
- Guide book + guidance by our volunteer twice a year (Rs.500/-)
- In a book, a curriculum to run the science club is provided which includes short biography of few scientists, material for science news board, puzzles, and information on 1 km trail for developing observation power. Teachers will be trained to conduct science club activities.
- MVP awards participation certificate to students.

2.0 Visit to MVP

School students ranging from 40 to 60 in number visit MVP between 11 am to 3.30 pm and carry out following activities.

- Get information on ecology, water, energy, health and land with the help of wall papers.
- Terrace gardening and botanical gardening based on school curriculum
- Water samples, human body.
- Students carry out 10 simple experiments with their own hands.
- Personal development, science puzzles making science toys, playing science games.
- Students bring their own lunch boxes.
- Fees Rs.25/-.

3.0 Science Experiment Fair

Students like to do things with their own hands. They continue doing them at their homes. Science principles taught in the school are clarified by carrying out experiments, besides having fun.

- Help needed from the schools: 3 to 4 class rooms, depending upon size. Fees collected from students Rs. 50/- each.

- Twenty-five experiments are set up in 3 to 4 class rooms. From the information card put on the experiment table, students read instructions and carry out experiments. They are asked to find out conclusions and answers based on their observations. MVP volunteers guide the students and help them in case of difficulties.
- One hundred students are admitted in a batch, 2 per table. Time allotted is 3.5 hours.

4.0 Continuous Education Cell

- So as to overcome the daily life problems like replacing electrical fuse, water tap washer, etc., students are exposed to these things. They also get information on land, water health, ecology, birds, trees, etc..
- Forty students are admitted in a batch. Fees: Rs.30/- per student.
- Help from school: Bring students to MVP at a pre-determined date, 2 to 3 classes of 40 students each.
- MVP volunteers help students through out the course of the cell.

5.0 Mathematics Made Easy

- Students find maths the most difficult subject. Our aim is to create an interest and remove fear from this topic.
- Different mathematical operations are demonstrated with the help of experiments. In this workshop of 3 to 3.5 hours, fun in mathematics is displayed in finding out area, volume, Eulers formula, puzzles, etc.
- A batch of 60 students is admitted. Fees charged is Rs. 25/- per student.

6.0 Science Toy Making

- Things available in the surroundings are picked up to make toys. Students are taught how to make toys.
- Twenty toys are taught in 2 days time. Fees Rs.200/-.
- There is a workshop of one day duration as well in which 10 to 12 toys are taught. Fees Rs.25/-.
- Students at two levels are admitted. a) 3rd to 6th standard, b) 7th to 10th standard
- Normally this workshop is conducted when the school is off during summer or winter.

7.0 Friendship With Science

- This is a week long workshop, generally carried out during holidays.
- Students enrolled in 6th to 9th standard are admitted.
- Fees Rs.400/-.
- Four lectures on current problems in India such as population, AIDS, water scarcity, and energy problem. Younger age individuals are asked to conduct these sessions (between age group 25 to 30) so that students can relate to them and ask questions fearlessly.

- Forty experiments based on water, energy, health, land, ecology are performed by the students by using household waste material.
- Students are taken on an overnight field visit for observation of sky, water bodies, flora and fauna.

8.0 Science Laboratory

- Every student wants to perform experiments with his/her own hands but this is difficult in India because most schools cannot afford laboratories and classes in general are large in size (around 80 students each). By the exposure to science laboratory, students learn science better and enjoy working with their own hands.
- Students gain confidence of handling science apparatus, learn to make observations, learn how to note them down and find conclusions.
- Science laboratory is arranged for two levels. a) 5th to 7th standards, b) 8th to 10th standards.
- Fees: Rs.500/- per student

9.0 Gender Education

- In India, teachers or parents do not speak openly and frankly about gender education. However, early teenagers (12 to 15 year old) are curious about the mental and physical changes they experience. When proper scientific information is not provided, they read filthy or poorly written information in easily accessible books or websites. Overall, this situation results in several negative consequences.
- MVP has produced a slide show of 40 minutes (one for each gender) with a background commentary. After each show, students are encouraged to ask questions. Commonly asked questions and answers are made available to boys and girls in a book form at a very low cost (Rs.10/- or 15/-).
- Class fees of Rs.200/- is charged to a class of 40 teenagers plus travelling expenses.
- MVP has presented around 4000 shows over past 20 years reaching 400,000 individuals.

10.0 AIDS

- AIDS is rampant in India affecting about 20 % of India's population.
- To remove misconceptions on AIDS, MVP has produced a slide show of 40 minutes with background commentary. Twenty minutes are reserved for questions and answers.
Fees of Rs. 200/- is charged plus travelling expenses.

11.0 Gammat Jammatt (Dialogue)

- This is a “free” four page interactive bulletin for 7th to 10th standard students. The bulletin presents science information as well as do-it-yourself exercises. Eight issues

are published annually (no issues during March through June when students are busy with exams or they are out of school).

12.0 Balodyan

This programme is specially designed to suit students of first to third standards. Some experiments are performed along with introduction to trees, birds, musical instruments etc with importance of cleanliness and so on are taught with the help of discussion and stories. About 25 to 30 students are admitted in one batch. The duration is 2 to 3 hours each on two days. Fees: Rs. 100/- per students.

13.0 Concept Development Course

The said course is conducted for fifth to eight standard students throughout the year. Various means such as lect-demo, practicals, projects and so on are used to explain the different concepts of science to students as per curriculum. Fee for the full course ranges from Rs. 1000/- to Rs. 3500/-

14.0 Sky Gazing

One can see many stars and planets in the sky during the night. This programme acquaints people of any age group with the sky at a place outside Mumbai.

- Slide show, naked eye observation and observations through telescope.
- Programmes are arranged between October and May.
- Fees : Rs.60/-.

15.0 Solar Cooker and Solar Water Heater Making Workshops

- Energy is becoming dearer with the rising cost of crude oil. Solar energy is a good substitute and these equipments can be manufactured at a low cost.
- Each workshop is of two days duration
- No age bar on admission
- Fees Rs.200/- for solar cooker and Rs. 300/- for solar water heater.
- In every class, theory is explained and a group of eight students are taught to make the equipment with their own hands.
- Students test these equipments and consume food cooked in sun rays and experience water heated with sun rays.

16.0 City Farming

- Bio-degradable waste is generated every day in our houses. This waste can be recycled in city farming. Like any other farming, city farming needs sun light. Pots planted with fruits like guava, pomegranates, custard apples, figs; and vegetables like beans, ladies' fingers (okra), radish, sweet potato, onions, mormadica chorantia, white pumpkin and many leafy vegetables can be grown. Pots like broken buckets, leaky

- barrels, plastic bags can be used. Please keep in mind that we do not teach bonsai style of plantation. One can grow full-size fruits and vegetables using city farming methods.
- MVP conducts half-day training classes.
 - Fees: Rs.100/-.

17.0 Exhibitions

- MVP have 10 exhibitions (each having 30 to 50 exhibits) on following subjects:
 - a) Diet and Nutrition
 - b) Astronomy
 - c) Waves
 - d) Science in day-to-day life
 - e) Science and Mathematics
 - f) History of Science and technology
 - g) Water
 - h) Dr. C. V. Raman
 - i) Environment
 - j) Mithi River
- Schools and other institutions can borrow these exhibitions for a week at a nominal fee of Rs.300/-.
