

Thrust Areas in STEM Demonstration

Science, Technology, Engineering and Mathematics (STEM) demonstrations comprising of:

Science fairs & melas, exhibitions, mobile science exhibitions, lecture-demonstrations, interactive media, visits to S&T establishments, hands-on-STEM activities, and so on. These events, whether stationary or mobile, serve to utilize the expertise of resource persons trained/being trained by NCSTC in various aspects on activities.

- ❖ Different kinds of demonstration on a variety of themes on STEM (Science, Technology, Engineering and Mathematics), environmental themes, health, science behind miracles, vermi-composting (Support to capacity building module aiming at scientific awareness and exposure on composting, vermin-composting, micro-organism, etc.. includes hands – on activities). Science in toys; including areas like economic zoology, economic botany, ethno-botany, ethno- zoology, etc.
- ❖ Puppetry – watch a show, script a dialogue (eg. 10 exchanges in 10 minutes of Galileo talks to Class 9 students), puppet making...
- ❖ Student activity stalls - Solve a puzzle, mathematical games/activities, ask a good question, 10 minute design/redesign, spot the odd one, draw a future, quizzes, painting, etc.
- ❖ Skits and Street plays, eg. Nukkad natak, on proposed themes as in the stalls
- ❖ They should expose a large number of people to (i) S&T issues, (ii) S&T in daily life, (iii) S&T at cutting edge.
- ❖ **Scientific Career Options:** They serve to expose students to the scientific concepts at the cutting edge, India's capabilities, their career choices, and motivate students to take up a career in science.
- ❖ **Industrial Visits/ visits to S&T establishments:** They expose a large number of students (normally 13 to 18 years of age), and teachers to technologies in their vicinity. such visits also motivate them to learn the science related to the technologies, and take up careers in S&T Inspire students to design and redesign their environment/surroundings.