Olympiad programs at HBCSE

Physics
Chemistry
Biology
Mathematics
Astronomy
Aims and Objectives of The Olympiads

- Build awareness of the subject among young minds
- Encourage students with good foundations in these subjects
- Pursue interest for further studies in the subjects
- Search for talent
- Develop interest for research careers
Stages of examinations and selection Process

Stage 1:
- National Standards Examinations
- regional examination (Math)

Stage 2: Indian National Olympiads

Stage 3: Training Camps

Stage 4: Pre-departure training

Stage 5: International Olympiads
Pattern of examination in the selection Process

Stage 1: Multiple choice questions
  – Part 1 and part 2

Stage 2: part 1 + part 2
  – (practical or subjective)

Stage 3: Training Camps
  – 5 tests + practical

Pre-departure training of selected students

International Olympiads
Eligibility

Age: from 14 to 18 years

Physics: From 9<sup>th</sup> Std. to 12<sup>th</sup> Std.
Chemistry: From 9<sup>th</sup> Std. to 12<sup>th</sup> Std.
Biology: From 9<sup>th</sup> Std. to 12<sup>th</sup> Std.
Mathematics: From 8<sup>th</sup> Std. to 12<sup>th</sup> Std.
Astronomy: From 8<sup>th</sup> Std. to 11<sup>th</sup> Std.
Syllabus

- No pre-designed textbooks
- Based on 12th standard CBSE textbooks
- Problem solving
- Lab-experiment component (basic sciences)
- Observational practical component
- Analysis of data (Astronomy)
You are tested for:

- Understanding of basic concepts in science
- Use of mathematics as a tool
- How you visualize problems
- Approach of solving problems
- Rationality in handling problems
- Clarity of thought
- Use of instruments
What you directly get?

- Medals and awards at each national level + international level
- Award from Infosys
- KVPY
- NIUS
- Nurture camps and projects with scientists, in India and abroad.
- Direct enrollment to BARC recruitment training program after graduation
What you get indirectly?

- Confidence
- Freedom of thought
- Freedom from textbook
- Rational approach towards career choices
- Your place in national level
- International acclaim
- Friends at national/international level
- Opportunity to work with scientists/institutions
- Know what is happening at the frontiers of science and technology
Whom to approach for Olympiads?

www.hbcse.tifr.res.in/olympiads
- Dr. R. M. Dharkar (coordinator, IAPT) for enrollment to NSEP, NSEC, NSEB, NSEA.
- Dr. Arvind Kumar, Centre Director HBCSE for regional mathematics Olympiad

National coordinators:
- For Physics, Chemistry, Biology: Prof. V. Singh (HBCSE)
- For Astronomy: Prof. M. N. Vahia (HBCSE, TIFR)
- For Mathematics: Prof. R. B. Bapat, (Indian Statistical Institute, New Delhi)

For more Information: HBCSE
- Shri Anand Ghaisas (Astronomy)
- Shri Mangesh Mastakar (Basic sciences and Mathematics)