

Rashtriya Avishkar Abhiyan



A programme to focus on making learning of Science & Mathematics a joyful and meaningful activity for school students and connecting school based knowledge to life outside the school



Objectives

- To enable children to become motivated and engaged in Science, Mathematics and Technology (SMT) through observation, experimentation, inference drawing, model building, rational reasoning, testability etc.
- To create curiosity, excitement and exploration among school children in Science, Mathematics and Technology.
- To create a culture of thinking, inventing, tinkering and doing to promote enquiry based learning in Schools.
- To achieve learning levels appropriate to the class of study in Science and Mathematics.
- To encourage and nurture schools to be incubators of Innovation.

Programme Outreach

- Targets students in the age group of 6 - 18 years
- Span across MHRD's schematic interventions of Sarva Shiksha Abhiyan & Rashtriya Madhyamik Shiksha Abhiyan
- Coverage of schools to include Government elementary schools, Kasturba Gandhi Balika Vidyalayas, Kendriya Vidyalayas, Jawahar Navodaya Vidyalayas
- Convergence with schemes of Department of Higher Education to encourage Science, Mathematics & Technology.
- Coordinate efforts with programmes of the Ministry of Culture (Science Museums) and Department of Science and Technology

Major Interventions

- Systemic improvements in the School System
- Initiatives to encourage Science, Mathematics through alternative strategies,

Focussing on

Teachers

Students

Effective
classroom
transaction

School
Science
facilities

Communities

Systemic improvements in the School System

- Teacher recruitment and teacher preparation
- Strengthening of Maths and Science labs in schools
- Provision of teaching learning material
- Use of technology in science and maths teaching
- Development of resource material
- Strengthening Teacher Support Institutions
- Effective classroom transactions and assessment

Initiatives to encourage Science, Mathematics through alternative strategies

- School Mentoring by Institutions of Higher Education
- Promotion of Maths and Science Teacher Circles
- Nurturing Students Clubs on Maths, Science and Technology
- Increased outreach of the programmes of the Science Museums and activities of Deptt. of Science and Technology
- Participation of students in inter school, district, state, national level Science and Maths competitions/ Olympiads
- Visit to Scientific research hubs, science museums, factories; innovation hubs; organising science and maths fairs.
- Community- Sensitisation & Engagement

Management and Funding (National level)

- National Level Steering Committee- co-chaired by Secretary (School Education & Literacy) and Secretary (Higher Education).
- To monitor implementation of activities every 6 months.
- Coordinate, converge and harmonize funds under GoI programmes, Industry Associations, civil society contributions.

Management and Funding (State level)

- State level Steering Committee – chaired by Education Secretary
- To roll out and institutionalize the activities under Rashtriya Avishkar Abhiyan
- To monitor implementation of activities every 3 months
- Expand coverage in a systematic manner to ensure participation of all government and government aided schools
- Recognition to students, teachers, schools for encouragement
- Documentation and evaluation of different practices, models.
- Funding of activities through SSA and RMSA and other collaborative activities with Institutions of Higher Education, Industry, civil society

Funding for RAA Activities in 2015-16

Under SSA

Rs. 33.38 Cr. approved under Innovation head for implementing innovative activities for Science and Maths

Rs. 98.57 Cr. approved for focused trainings of Science and Maths teachers in upper primary classes

Rs.6.57Cr. approved for teaching –learning materials/activities under LEP for upper primary classes

Under RMSA

Rs. 124.78 Cr approved for teacher training for Science and Maths; strengthening science labs at schools; science exhibitions for improving learning of Science and Maths.

Monitoring and Milestones

Year	Coverage of schools for Mentoring Institutions	Science/ Maths clubs	Children's Science Congress	Maths & Science Olympiads at District/ State/ National level
2015-16	Pilot Year: 100 Govt. Schools, 10% of all KV and JNV Schools.	-	-	-
2016-17	5% of all Govt. schools Sr. Sec; Sec; Elem; Primary	50% of schools in column 2	50% of schools in column 2	Children from 25% of schools in column 2
2017-18	25% of all Govt. schools Sr. Sec; Sec; Elem; Primary.	”	”	”
2018-19	50% of all Govt. schools Sr. Sec; Sec; Elem; Primary	”	”	”
2019-20	100% of all Govt. schools Sr. Sec; Sec; Elem; Primary	”	”	”

Way Forward

- State (SSA/RMSA) to identify nodal officer for RAA.
- Nodal officers in Institutions of Higher Education.
- State Level Steering Committee.
- Identification of Pilot schools for mentoring.
- Sharing of existing (RAA) practices by IHE and Schools.
- SSA/RMSA and IHE to plan activities for pilot schools and other districts for 2015-16 onwards.
- National level guidelines for specific components of RAA for eg Science and Maths clubs.
- Regional / State level workshops for IHE, SSA and RMSA.
- Sharing of best practices, activities undertaken by States/UT's.
- Documentation of initiatives implemented by States/UT's.

Thank you