

Scheme to Identify and Capture Scientific Temperament among Students through Knowledge and Awareness Mapping Platform (KAMP)

INTRODUCTION

Council of Scientific and Industrial Research National Institute of Science, Technology and Development Studies (CSIR-NISTADS) is one of the constituent laboratories of CSIR, Department of Scientific & Industrial Research, Government of India - National Institute of science, Technology and Development Studies (NISTADS), has launched knowledge and Awareness Mapping platform-National Assessment for Scientific Temperament & Aptitude (KAMP-NASTA) in knowledge alliance with an industrial partner M/s Nysa Communications Pvt. Ltd. with an attempt to harness the creative and innovative talents of school children.

Knowledge and Awareness Mapping Platform is an International intellect E-based assessment platform to evaluate cognizance of 21st century skills, awareness and knowledge of Science, Technology & Humanities among students.

OBJECTIVES

1. To help students identify their awareness and aptitude for Science, Technology and Humanities.
2. To create awareness among students in emerging technologies like Robotics, Internet of Things (IOT), Artificial Intelligence (AI) etc.
3. To infuse a healthy competitive spirit through rewards, based on performance levels.
4. Track student progress through a dynamic system.
5. To create an performance index for all the participating schools.

In view of growing pace and complexity of knowledge system in the present times, it has been realized that there is a critical need to quantitatively assess the awareness and knowledge of students on various subjects regularly and objectively. Thus, KAMP has been initiated to identify and promote gifted and talented students of class 5th to 12th in the field of Science, Technology and Humanities across India. Based on the algorithm and design developed by CSIR-NISTADS, KAMP would support in identifying the talent at primitive stage and nurturing them in their areas of strength. The outcome of the KAMP will provide a comprehensive assessment report not only to the young students but also to schools, teachers and parents.

1. COMPONENTS & FINANCIAL PATTERN

KAMP-NASTA (2019-20) comprises of following components/variants:

a. NASTA-NOVA:

CLASS	SECTION	NO. OF QUESTIONS	TOTAL MARKS
5th to 12th (90 minutes)	Science	15	90
	Social Science	15	90
	Mathematics	15	90
	Digital Literacy	10	60
	Aptitude/Reasoning	5	30
	Grand Total	60	360

- Questions will be 40% from the current class syllabus and 60% from the previous class syllabus. 30% questions of paper will assess the awareness of the students on Science, Social Science, Mathematics and Digital Literacy, 40% questions will assess knowledge level and 30% Higher Order Thinking Skills (HOTS).
- **Paper Language:** English, Hindi or other Regional Languages
- **Eligibility:** All students of State Board Schools
- **Registration Fee:**
 - Self-Financed Schools: Rs. 300/- per student
 - Govt./Govt. Aided Schools: Rs. 200/- per student

b. NASTA-RIGEL

PAPER 1:

CLASS	SECTION	NO. OF QUESTIONS	TOTAL MARKS
5th to 12th (90 minutes)	Science	30	180
	EVS/Social Science	30	180
	Grand Total	60	360

PAPER 2:

CLASS	SECTION	NO. OF QUESTIONS	TOTAL MARKS
5th to 12th (90 minutes)	Mathematics	30	180
	Digital Literacy	25	150
	Aptitude/Reasoning	5	30
	Grand Total	60	360

- Questions will be 40% from the current class syllabus and 60% from the previous class syllabus. 30% questions of paper 2 will assess the awareness of the students on Mathematics and Digital Literacy, 40% questions will assess knowledge level and 30% Higher Order Thinking Skills (HOTS).
- **Paper Language:** English, Hindi or other Regional Languages
- **Eligibility:** All students of CBSE/ICSE Board Schools
- **Registration Fee:**
 - Self-Financed Schools: Rs. 400/- per student
 - Govt./Govt. Aided Schools: Rs. 300/- per student

c. NASTA-UNICORN

PAPER 1:

CLASS	SECTION	NO. OF QUESTIONS	TOTAL MARKS
5th to 12th (90 minutes)	Science	60	90
	Grand Total	60	90

PAPER 2:

CLASS	SECTION	NO. OF QUESTIONS	TOTAL MARKS
5th to 12th (90 minutes)	Social Science	60	90
	Grand Total	60	90

PAPER 3:

CLASS	SECTION	NO. OF QUESTIONS	TOTAL MARKS
5th to 12th (90 minutes)	Mathematics	60	90
	Grand Total	60	90

PAPER 4:

CLASS	SECTION	NO. OF QUESTIONS	TOTAL MARKS
5th to 12th (90 minutes)	Digital Literacy	40	60
	Aptitude/Reasoning	20	30
	Grand Total	60	90

- Questions will be 40% from the current class syllabus and 60% from the previous class syllabus. 30% questions of paper 2 will assess the awareness of the students on Mathematics and Digital Literacy, 40% questions will assess knowledge level and 30% Higher Order Thinking Skills (HOTS).
- **Paper Language:** English, Hindi or other Regional Languages
- **Eligibility:** Other International Boards
- **Registration Fee:**
 - Self-Financed Schools: Rs. 600/- per student
 - Govt./Govt. Aided Schools: Rs. 500/- per student

2. PATTERN OF FUNDING AND OTHER CONDITIONS:

Self-Financed/Private Schools:

Participation fee for Self-Financed Schools shall be borne by students and shall be deposited by the school or student. After deducting Rs. 30/- per student (towards expenditure for conducting examination in their school premises), school has to pay total registration fee (through online (Net Banking or Card Payments) or by generating payment deposit slip through school panel to pay through bank Transfer (RTGS/NEFT).

Government/Govt. Aided Schools:

Participation fee for Govt./Govt. aided schools under MHRD/Central Govt./State Govt./Minorities Institutions etc. shall be borne and paid by respective Education Board/Department/school.

Concern Education boards/departments are requested to direct the Principals of schools under your jurisdiction, to encourage students from classes 5th to 12th to enrol online for the above said assessment through KAMP website <https://www.kamp.res.in>

3. IMPLEMENTATION GUIDELINES

The implementation of KAMP will be held in schools in following manner:

SCHOOL ENROLLMENT

List of participating schools and students will be shared with KAMP Operations & Coordination Office. The details will be uploaded by KAMP on portal <https://www.kamp.res.in>

KAMP – NODAL OFFICER

KAMP-NODAL OFFICER (School Principal is Preferable) details will be shared while sending the list of participating schools and students with KAMP officials. KAMP Nodal Officer will be the Single Point of Contact (SPOC) for coordination with KAMP Officials and implementation of KAMP in the School.

STUDENT REGISTRATION

Students will be registered by KAMP officials at the time of school registration. The student login credentials will be shared on their registered email id.

REGISTRATION FEE

As per selected assessment variant (as described in pt. 1), consolidated fee of nominated students shall be paid by the concerned Education Board/Department/School/Student through KAMP Portal <https://www.kamp.res.in>

ASSESSMENT/IMPLEMENTATION DETAILS

Preparation tips for students, Syllabus for NASTA, Sample Questions, Exam Conduction Guidelines, Assessment Pattern details can be accessed through <https://www.kamp.res.in> Examination material will be delivered directly to school closer to the date of examination.

ASSESSMENT REPORT

Assessment Report will be posted to schools and also available online. All participants will receive a comprehensive assessment report with an advisory report. School Assessment Report will be available with the comparative analysis with schools in their region and at other States.

AWARDS, VISITS & CERTIFICATES

Post Assessment, National level, State Level and District Level Awards will be announced. Also selected students will get an opportunity to visit National/International, Science and Technology Institutions. The Awards will be given by Eminent luminaries of the Nation. Details of awards are available on KAMP Portal.

KAMP – JUNIOR SCIENTIST CLUB (K-JSC)

Kamp- Junior Scientist Clubs will be formed in each district. Each participating school and student will become members of KAMP-JSC.