



Ministry of Education  
Government of India

75  
आज़ादी का  
अमृत महोत्सव

# NAS 2021

National Achievement Survey

STATE REPORT CARD

Assam





# NAS 2021

**National Achievement Survey**

## **State Report Card** **Assam**

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## NAS 2021

Class III, V, VIII and X

State Report Card: Assam

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Sri Aurobindo Marg, New Delhi 110016.

# About NAS

NAS is system level assessment i.e. it summarizes students achievement at National, State/UT and District levels.

The National Achievement Survey (NAS) is a national level large-scale assessment conducted to obtain information about the learning achievement of students of Classes 3, 5, 8 and 10 studying in State Govt. schools, Govt. Aided schools, Private Unaided and Central Govt. schools. NAS does not provide scores for individual student/school.

It is a national representative survey that provides a system level reflection on effectiveness of school education. NAS findings help compare the performance across the spectrum and across population which may serve as input to move in the desirable direction and areas for remedial interventions.

NAS is embedded in an extremely rich system of background variables. This survey correlates students performance with contextual variables. NAS is useful for educational planners and policy makers including researchers in understanding the interdependence of assessment, pedagogical process and learning outcomes.

NAS 2021 focused on competency-based assessment. It was conducted in Language, Mathematics & Environmental Studies for class 3 & 5; Language, Mathematics, Science & Social Science for class 8 and Modern Indian Language, Mathematics, Science, Social Science and English for class 10.

For effective monitoring and nation-wide coordination, a National Steering Committee was constituted by the Ministry. While the NCERT was entrusted with the task of development of Assessment Framework, the administration of NAS 2021 was entrusted to the CBSE. Grade-wise subject specific Learning Outcomes were identified by the NCERT for development of the items for assessment. Sampling being a crucial aspect of assessment, the NAS 2021 sampling design was intended to support the predefined objectives of the assessment. The sampling note on which the sample has been selected for NAS 2021 is also available on

the MoE website. The States, Districts and School level samples were based on UDISE+2019-20 data. Nearly, 3.4 million students from approximately 1.18 lakh schools were administered the survey. A dedicated Portal (<https://nas.education.gov.in>) was launched by the NIC with login access for functionaries and role-based functionality for managing resources, activity monitoring, reporting & documentation etc. Extensive training and capacity building was done for the field operatives using short and self-narrative videos in a blended mode. For a hassle-free and fair conduct of NAS, an integrated framework with operational salience was in place. The survey was conducted in a monitored environment.

Around 2 lakh Field Investigators (FIs), 1.24 lakh Observers, 36 State Nodal Officers, 733 District Level Coordinators and District Nodal Officers were engaged. Board Representatives were appointed for ensuring fair conduct of NAS. The pre-mapping of Test and background questionnaire tools using UDISE code, confidentiality at all stages, Just-in-Time delivery of papers in sealed trunks, school-specific packing for transit security, self-learning materials for functionaries in login, 3-tier supervision, machine-based random deployment, documentations in the form of control sheet, field note for FI and observer, district note and update on portal were some of the strategic arrangements that were in place for the smooth administration of NAS. Out of 733 targeted districts, the NAS-2021 was conducted in 720 districts on 12th November 2021 except some districts of Tamil Nadu and Andhra Pradesh due to natural calamity.

This report would help diagnose learning gaps and determine interventions necessary in education policies, teaching practices and learning. The synthesis of the results at the national level would prove to be a rich repository of evidence for developing and designing the future course of action for the Indian education system.



धर्मेन्द्र प्रधान  
धर्मेश्वर गुप्ता  
Dharmendra Pradhan



मंत्री  
शिक्षा; कौशल विकास  
और उद्यमशीलता  
भारत सरकार

**Minister**  
**Education; Skill Development**  
**& Entrepreneurship**  
**Government of India**



## MESSAGE

It is indeed a great opportunity to share the National Report of National Achievement Survey (NAS) 2021 as it will help States and UTs in identifying the gaps in learning outcomes and provide strong foundation to design and implement the outcome based interventions.

NAS 2021 reflects the overall health of the education system at the National, State and District level. As you are aware that despite various challenges faced during the pandemic of COVID-19, NAS was conducted on 12th November, 2021 across the country in collaboration with the States and UTs.

The findings of the survey are crucial for understanding the achievement of student's learning outcomes and attainment of grade level competencies. Further, the data collected through this achievement survey will help to understand the impact of multi-faceted learning approach adopted during the pandemic and its effectiveness on children particularly from socio-economic disadvantageous background.

I am sure this report will guide education planners and policy makers including researchers to understand the grade-wise level of learning outcomes and pedagogical processes to induce improvement in the quality of education in the country.

I also take this opportunity to convey my best wishes and heartfelt gratitude to the stakeholders who were involved in this endeavor, especially all the children, parents and community members who had supported this survey and contributed towards its success.

  
(Dharmendra Pradhan)

सबको शिक्षा, अच्छी शिक्षा



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अन्नपूर्णा देवी  
ANNPURNA DEVI



सत्यमेव जयते

राज्य मंत्री  
शिक्षा मंत्रालय  
भारत सरकार  
MINISTER OF STATE  
FOR EDUCATION  
GOVERNMENT OF INDIA



## MESSAGE

I am glad to learn that the National Report of National Achievement Survey (NAS) 2021 based on assessment conducted for Classes III, V, VIII and X is being brought out. The feat of conducting the NAS 2021 throughout the nation on a single day on 12<sup>th</sup> November, 2021 is commendable. The data for NAS 2021 was collected from around 34 lakh children, more than 5 lakh teachers from 1,18,274 schools in 720 districts across the country. The objective of NAS 2021 is to evaluate children's progress and learning competencies as an indicator of the health of the education system, so as to take appropriate steps for remedial actions at different levels.

I am sure that the data generated in this survey will be fruitfully used in analyzing and understanding the education system of the country in a more effective way. Assessment of the students based on learning outcomes will equip them for the knowledge & skill requirements of the 21<sup>st</sup> century. This will help in achieving the goals envisaged in the NEP-2020 in their letter & spirit.

I hope that the report will be useful for policy planners, researchers and all other stakeholders in understanding students' learning levels and thereby improving the quality of school education in the entire country.

I convey my best wishes to the team in this endeavour.

*Annapurna Devi*  
(ANNPURNA DEVI)



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सचिव

Anita Karwal, IAS  
Secretary



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शिक्षा मंत्रालय  
भारत सरकार  
Department of School Education & Literacy  
Ministry of Education  
Government of India



### MESSAGE

We are happy to release the report of the National Achievement Survey (NAS) which was conducted throughout the nation on a single day for Classes 3, 5, 8 and 10 on 12<sup>th</sup> November, 2021. The data for NAS 2021 was collected from around 34 lakh children, more than 5 lakh teachers from 1,18,274 schools in 720 districts across the country. The conduct of NAS represents the systematic process of collecting data, starting from development of assessment framework tools, sampling, data analysis procedures and interpreting survey data.

Rather than assessing the children on rote memorization ability, NAS 2021 focused on assessing the competency-based skills, which focuses on children to develop the competencies to analyse, reason and communicate their ideas effectively and build their capacity for being a life-long learner. NAS 2021 reports will be effectively used in analyzing and understanding the education system of the country by focusing on the achievement of the students in various grades and through subject specific Learning Outcomes

To provide the insight into educational attainment at different levels, 37 detailed State Learning Reports and 720 District Report Cards are also being released along with the National Report. I expect that in-depth deliberations by the respective States, UTs and Districts on the survey findings will guide them to plan effectively for achieving the goals and improving quality of education in the country. I sincerely hope that these findings of the survey will provide guidance to the teachers, educational personnel at different levels and in particular, policy makers to take evidence driven steps for the overall improvement in the education system.

I extend my best wishes to the all the team members in this endeavor.

  
(Anita Karwal)

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# Highlights

## Demographic and educational profile of the State/UT



**78,438 km<sup>2</sup>**  
Area of Assam



**3,12,05,576**  
Population



**397 per km<sup>2</sup>**  
Density of the population



**72.2%**  
Literacy Rate



**962 girls per 1000 boys**  
Child sex ratio (0-6 Years)

## PARTICIPATION OF CLASS 3, 5, 8 AND 10

NUMBER OF SCHOOLS



**5,995**

NUMBER OF TEACHERS

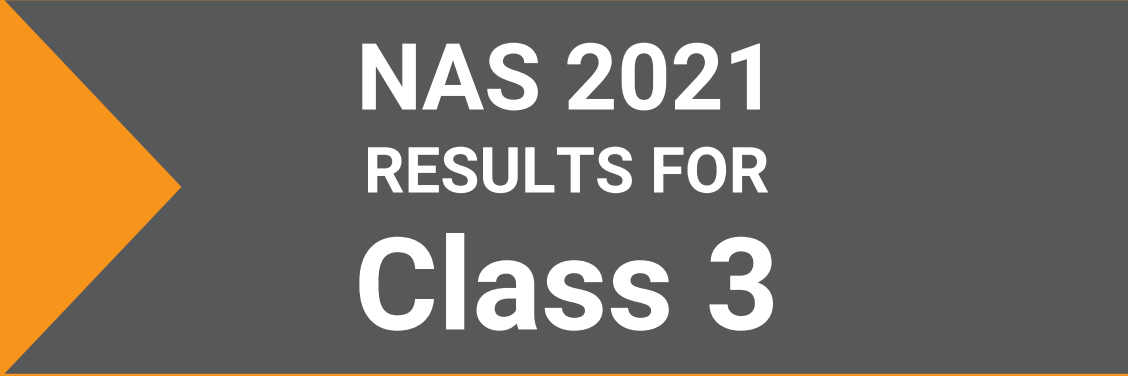


**27,582**

NUMBER OF STUDENTS

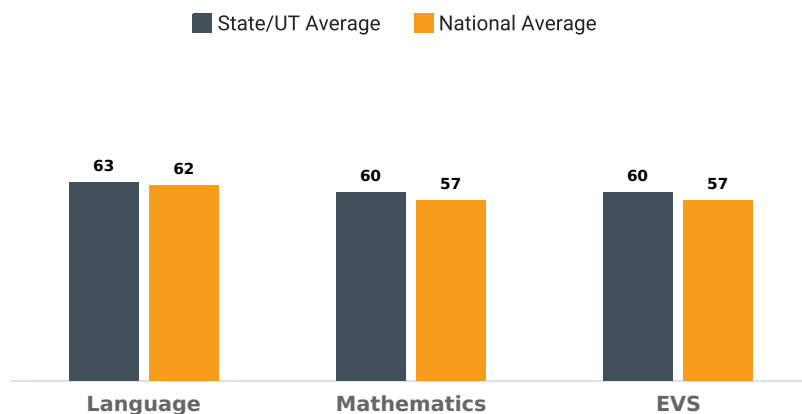


**1,70,191**



**NAS 2021**  
**RESULTS FOR**  
**Class 3**

### Performance of Students in Different Subjects (in percentages)

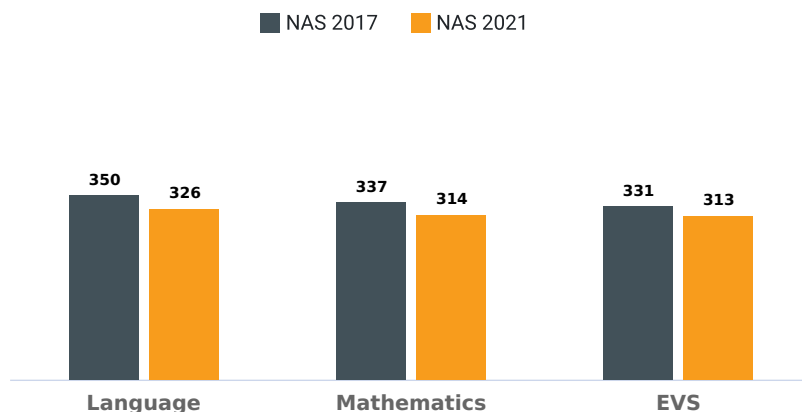


### Percentages of Students by Performance Level

	BELOW BASIC	BASIC	PROFICIENT	ADVANCED
Language	28	30	28	13
Mathematics	20	32	33	15
EVS	19	32	36	13
	Learners at this level are at the early stages of development regarding the curriculum standards. They have not achieved the required knowledge and skill to be considered minimally successful regarding curriculum demands. They need guidance at every stage of learning. They need a lot of encouragement and support.	Learners at this level demonstrate a minimum level of knowledge and skills related to the curricular demands. They can follow simple instructions and apply simple rules to achieve the expected performance. They have ideas but lack coherence. They can solve problems using simple logic, and also express themselves using simple language. They need enough guidance at various stages of learning.	Learners at this level have acquired most of the learning outcomes and skills required by the curriculum. They can work independently with minimum supervision. They have a systematic methodology to solve problems. They can communicate their ideas clearly. They can also connect different ideas and create meaning with minimum guidance and supervision. They can analyze situations and interpret information for application in new situations. Efforts are required to bring all learners to attain the proficient level and above.	Learners at this level display exceptional mastery of the learning content as prescribed by the curriculum and beyond. They are independent with high analytical, reflective and critical thinking. They can connect and integrate concepts and ideas to create new knowledge/meaning and solve complex problems. They communicate information with the highest level of creativity and coherence as well as make sound judgements.

(Note: Decimal figures in the data set has been rounded up to whole numbers and hence may not add up to 100)

### Performance of Students in NAS 2017 and NAS 2021 (in scaled scores out of 500)

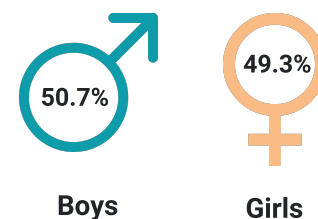


\* EVS - Environmental Studies

### Performance by Gender

SUBJECT		Percentage correct answer		Percentage of children			
				At basic and below basic level		At proficient and advance level	
		Boys	Girls	Boys	Girls	Boys	Girls
Language	State	62	64	60	57	40	43
	National	61	63	63	60	37	40
Mathematics	State	60	61	53	51	47	49
	National	57	57	58	57	42	43
EVS	State	59	62	53	49	47	51
	National	57	58	57	55	43	45

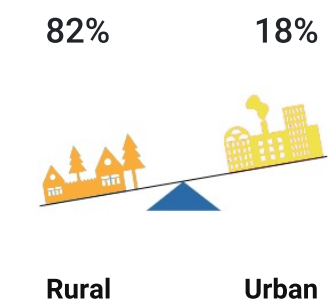
### Participation by Gender



### Performance by Location

SUBJECT		Performance of students (percentage correct answer)		Percentage of children			
				At basic and below basic level		At proficient and advance level	
		Rural	Urban	Rural	Urban	Rural	Urban
Language	State	64	60	57	62	43	38
	National	62	61	61	62	39	38
Mathematics	State	62	55	49	64	51	36
	National	58	56	56	61	44	39
EVS	State	61	56	49	59	51	41
	National	58	56	55	58	45	42

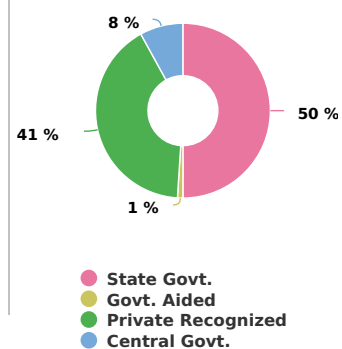
### Participation by Location



### Performance by Management

SUBJECT		Percentage correct answer				Percentage of children							
						At basic and below basic level				At proficient and advance level			
		State	Aided	Private	Central	State	Aided	Private	Central	State	Aided	Private	Central
Language	State	64	59	65	52	57	69	56	74	43	31	44	26
	National	63	62	62	56	60	60	61	70	40	40	39	30
Mathematics	State	62	52	60	49	48	69	54	74	52	31	46	26
	National	58	57	57	52	55	57	58	69	45	43	42	31
EVS	State	62	54	61	50	48	68	52	68	52	32	48	32
	National	58	58	57	52	53	54	58	66	47	46	42	34

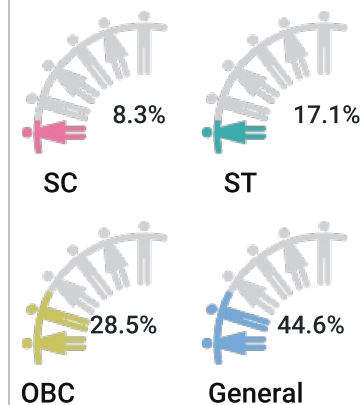
### Participation by Management



### Performance by Social Group

SUBJECT		Percentage correct answer				Percentage of children							
						At basic and below basic level				At proficient and advance level			
		SC	ST	OBC	General	SC	ST	OBC	General	SC	ST	OBC	General
Language	State	66	60	64	64	52	63	57	57	48	37	43	43
	National	62	61	62	64	61	65	62	57	39	35	38	43
Mathematics	State	63	56	60	62	49	60	53	48	51	40	47	52
	National	57	55	57	59	57	62	57	56	43	38	43	44
EVS	State	63	58	61	62	45	56	50	48	55	44	50	52
	National	58	57	57	59	55	58	56	54	45	42	44	46

### Participation by Social Group



## Overall Achievement Score

**National Average**  
(Percentage)

**59.0**

S.No.	District Name	Mean (Percentages)	Percentage of children at basic and below basic level	Percentage of children at proficient and advance level
1	CHARAIDEO	70.9	38.3	61.7
2	HAILAKANDI	70.3	38.0	62.0
3	NALBARI	69.0	40.4	59.6
4	MORIGAON	69.0	39.8	60.2
5	MAJULI	68.6	42.7	57.3
6	BARPETA	68.2	42.6	57.4
7	BONGAIGAON	68.1	42.9	57.1
8	DHEMAJI	67.1	45.8	54.2
9	JORHAT	66.6	44.8	55.2
10	SIBSAGAR	66.3	45.2	54.8
11	CACHAR	65.4	46.2	53.8
12	GOALPARA	64.8	48.3	51.7
13	DHUBRI	64.8	45.3	54.7
14	UDALGURI	64.1	47.7	52.3
15	SOUTH SALMARA-MANKACHAR	63.8	50.7	49.3
16	DIMA HASAO	63.0	52.4	47.6
17	GOLAGHAT	62.4	52.9	47.1
18	BAKSA	62.2	51.5	48.5

S.No.	District Name	Mean (Percentages)	Percentage of children at basic and below basic level	Percentage of children at proficient and advance level
19	TINSUKIA	61.7	54.8	45.2
20	BISWANATH	60.5	57.5	42.5
21	KOKRAJHAR	60.2	56.5	43.5
22	NAGAON	59.7	56.4	43.6
23	HOJAI	59.2	54.8	45.2
24	KAMRUP-RURAL	59.2	56.3	43.7
25	SONITPUR	58.7	57.9	42.1
26	KARIMGANJ	58.3	56.0	44.0
27	LAKHIMPUR	57.3	62.4	37.6
28	DIBRUGARH	54.8	61.4	38.6
29	DARRANG	54.2	65.5	34.5
30	KAMRUP-METRO	54.2	66.9	33.1
31	WEST KARBI ANGLONG	53.2	70.2	29.8
32	CHIRANG	51.2	68.7	31.3
33	KARBI ANGLONG	45.5	80.6	19.4
	State/UT Average	61.2	52.8	47.2

### What students have to say

**99%**

Students like to go to school

**75%**

Students use home language as medium of instruction in the class

**69%**

CWSN students get facilities from school

**98%**

Students could understand, what teachers teach in the class

**73%**

Students get parental support for their educational achievement

### What teachers have to say

**18%**

Teachers have adequate instructional material and supplies

**35%**

Teachers have adequate work space

**27%**

Teachers say that they are overloaded with the work

**43%**

Teachers have responded that the school building needs major repair

**28%**

Teachers have responded that there is lack of drinking water facilities in school

**24%**

Teachers have responded that there are inadequate toilet facilities in school

**34%**

Teachers participated in professional development program

**91%**

Teachers have responded that the parents take interest in school activities

### What head teachers have to say

**61%**

of head teachers responded that schools have adequate qualified teaching staff

**53%**

of head teachers responded that schools have adequate supporting staff

**16%**

of head teachers responded that schools have adequate audio visual resources

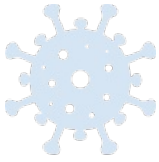
**24%**

of head teachers responded that schools have adequate library resources

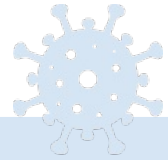
**98%**

of head teachers responded that schools participate in sports activities





## Learning At Home During The Pandemic



I learnt many things :

Painting

Singing

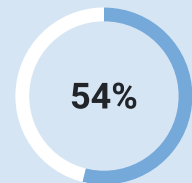
Cooking

Indoor Game

Yoga

Playing Musical Instrument

Spent joyful time with my parents / grandparents / siblings



60%  
Learning from  
pandemic

39%  
Obstacles to  
learning in  
pandemic

## Experiences During Pandemic

44%

No Digital Device at Home

87%

Follow the Covid-19 hygiene protocols

99%

Understand the protocols for COVID symptom reporting

98%

Aware of the measures to be taken for wellbeing of the children and school staff

40%

Experienced worry, anxiety and fear during pandemic




31%

Happy being by myself at home

98%

Know about the school reopening guidelines

## Performance of the State/UT in Achieving Learning Outcomes (LOs)

LO Code	Learning Outcomes for Class 3	State Average Performance	National Average Performance
Language			
L304	Reads small texts with comprehension i.e., identifies main ideas, details, sequence and draws conclusions	65	64
L312	Reads printed scripts on the classroom walls: poems, posters, charts etc.	60	58
Mathematics			
M301	Reads and writes numbers up to 999 using place value	48 	45 
M302	Compares numbers up to 999 based on their place values	73	70
M303	Solves simple daily life problems using addition and subtraction of three digit numbers with and without regrouping	57	53
M304	Constructs and uses the multiplication facts (up till 10) in daily life situations	65	61
M305	Analyses and applies an appropriate number operation in the situation/ context	56	53
M306	Explains the meaning of division facts by equal grouping/sharing and finds it by repeated subtraction	53	47 
M309	Identifies and makes 2D-shapes by paper folding. paper cutting on the dot grid, using straight lines etc.	47 	43 
M311	Fills a given region leaving no gaps using a tile of a given shape	61	56
M312	Estimates and measures length and distance using standard units like centimeters or meters & identifies relationships	54	50
M317	Reads the time correctly to the hour using a clock/watch	73	71
M318	Extends patterns in simple shapes and numbers	59	56
M319	Records data using tally marks, represents pictorially and draws	53	53

 Average performance less than 50 percent

## Performance of the State/UT in Achieving Learning Outcomes (LOs)

LO Code	Learning Outcomes for Class 3	State Average Performance	National Average Performance
EVS			
EVS302	Identifies simple features (e.g. movement, at places found/ kept, eating habits, sounds) of animals and birds in the immediate surroundings.	67	62
EVS303	Identifies relationships with and among family members	53	51
EVS304	Identifies objects, signs (vessels, stoves, transport, means of communication, transport, signboards etc.), places (types of houses/shelters, bus stand, petrol pump etc.) activities (works people do, cooking processes, etc.) at home/school/ neighborhoods	68	65
EVS305	Describes need of food for people of different age groups, animals/birds, availability of food and water and use of water at home and surroundings.	54	52
EVS307	Groups objects, birds, animals, features, activities according to differences/ similarities using different senses. (e.g. appearance/place of living/ food/ movement/ likes-dislikes/ any other features)	66	63
EVS309	Identifies directions, location of objects/places in simple maps using signs/symbols/ verbally	67	66
EVS310	Guesses properties, estimates quantities of materials/activities in daily life and verifies using symbols/non-standard units	71	67
EVS311	Records observations, experiences, information on objects/activities/places visited in different ways and predicts patterns etc	57	54
EVS313	Observes rules in games (local, indoor, outdoor)	<b>46</b> ⚠️	<b>43</b> ⚠️
EVS314	Voices opinion on good/bad touch , stereotypes for tasks/play/food in family w.r.t gender, misuse/wastage of food and water in family and school.	65	63

⚠️ Average performance less than 50 percent