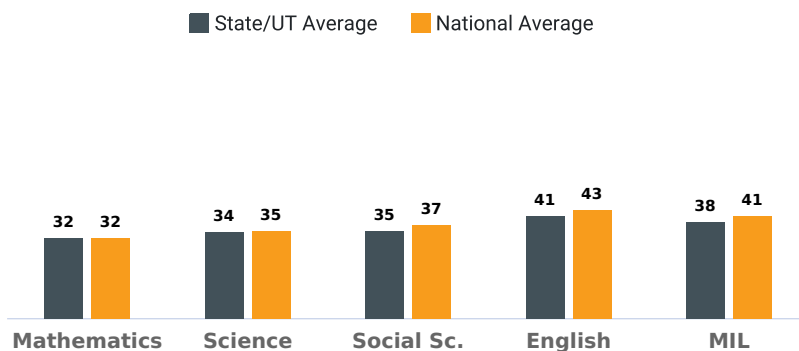




**NAS 2021**  
**RESULTS FOR**  
**Class 10**

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

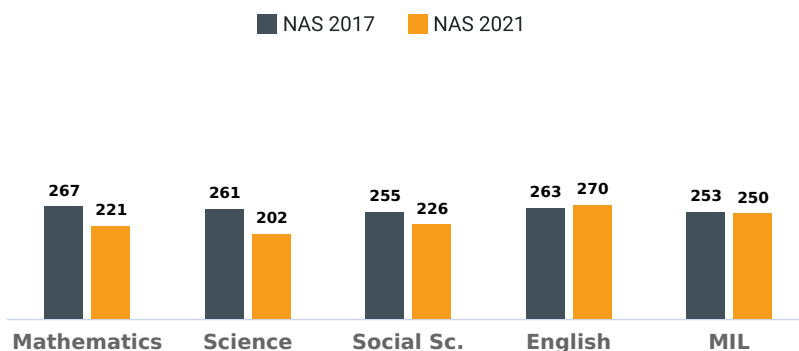


### Percentages of Students by Performance Level

	BELOW BASIC	BASIC	PROFICIENT	ADVANCED
Mathematics	30	45	19	5
Science	76	16	7	1
Social Science	65	24	10	1
English	27	19	38	15
MIL	62	32	6	0
	<p>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.</p>	<p>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.</p>	<p>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.</p>	<p>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.</p>

(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)

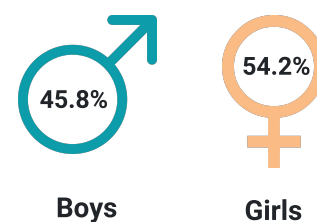


\* MIL - Modern Indian Language

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
Mathematics	State	32	32	76	76	24	24
	National	33	32	76	79	24	21
Science	State	35	34	91	93	9	7
	National	35	35	91	92	9	8
Social Science	State	36	35	88	89	12	11
	National	38	37	85	86	15	14
English	State	41	40	45	47	55	53
	National	43	43	41	40	59	60
MIL	State	38	39	94	94	6	6
	National	41	42	90	89	10	11

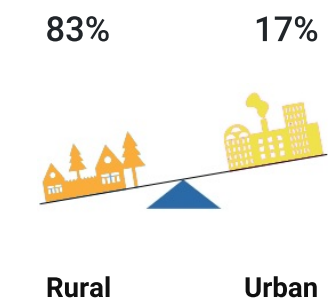
Participation by Gender



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
Mathematics	State	32	34	76	73	24	27
	National	32	33	78	76	22	24
Science	State	33	38	94	85	6	15
	National	34	37	93	88	7	12
Social Science	State	34	41	91	78	9	22
	National	36	40	88	80	12	20
English	State	39	51	50	31	50	69
	National	39	50	47	29	53	71
MIL	State	38	42	95	89	5	11
	National	40	44	91	86	9	14

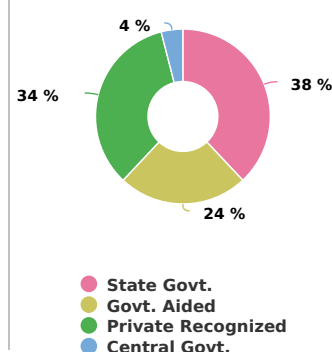
Participation by Location



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
Mathematics	State	31	29	35	36	78	82	69	63	22	18	31	37
	National	32	29	34	36	78	87	74	66	22	13	26	34
Science	State	32	29	40	43	95	98	82	78	5	2	18	22
	National	34	32	37	41	93	98	87	81	7	2	13	19
Social Science	State	33	30	42	50	94	97	76	60	6	3	24	40
	National	35	34	40	44	89	93	79	71	11	7	21	29
English	State	36	32	54	62	53	64	25	11	47	36	75	89
	National	39	37	50	54	47	49	31	24	53	51	69	76
MIL	State	38	33	42	44	95	98	89	84	5	2	11	16
	National	39	40	43	45	92	92	87	81	8	8	13	19

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
Mathematics	State	31	29	31	34	79	83	78	71	21	17	22	29
	National	31	29	32	35	81	85	79	72	19	15	21	28
Science	State	33	32	34	35	94	96	93	90	6	4	7	10
	National	33	32	34	38	93	96	93	86	7	4	7	14
Social Science	State	34	35	36	36	91	92	89	88	9	8	11	12
	National	35	34	36	41	89	92	88	76	11	8	12	24
English	State	39	41	41	41	50	45	45	46	50	55	55	54
	National	39	38	41	51	47	51	44	28	53	49	56	72
MIL	State	38	36	39	39	95	96	93	93	5	4	7	7
	National	39	37	41	45	92	95	91	84	8	5	9	16

Participation by Social Group



## Overall Achievement Score

**National Average**  
(Percentage)

**37.8**

S.No.	District Name	Mean (Percentages)	Percentage of children at basic and below basic level	Percentage of children at proficient and advance level
1	KAMRUP-METRO	47.1	59.7	40.3
2	NALBARI	41.8	70.9	29.1
3	SIBSAGAR	41.1	71.7	28.3
4	DIMA HASAO	39.5	73.0	27.0
5	JORHAT	39.4	73.4	26.6
6	HOJAI	38.7	74.2	25.8
7	KOKRAJHAR	37.8	78.2	21.8
8	KAMRUP-RURAL	37.6	77.9	22.1
9	BARPETA	37.5	76.1	23.9
10	DHEMAJI	37.5	76.9	23.1
11	DIBRUGARH	37.2	78.1	21.9
12	GOLAGHAT	36.6	79.6	20.4
13	BAKSA	36.1	79.0	21.0
14	DARRANG	36.1	80.9	19.1

S.No.	District Name	Mean (Percentages)	Percentage of children at basic and below basic level	Percentage of children at proficient and advance level
15	CHARAIDEO	36.3	81.2	18.8
16	MORIGAON	36.1	79.0	21.0
17	SONITPUR	35.9	79.1	20.9
18	SOUTH SALMARA-MANKACHAR	35.8	80.7	19.3
19	HAILAKANDI	35.7	78.2	21.8
20	TINSUKIA	35.3	82.7	17.3
21	MAJULI	35.3	82.2	17.8
22	BISWANATH	35.0	81.8	18.2
23	KARBI ANGLONG	35.0	81.2	18.8
24	NAGAON	34.6	82.1	17.9
25	GOALPARA	34.6	81.4	18.6
26	DHUBRI	34.4	81.3	18.7
27	BONGAIGAON	34.1	83.3	16.7
28	WEST KARBI ANGLONG	33.9	82.2	17.8
29	UDALGURI	33.8	84.2	15.8
30	KARIMGANJ	33.6	84.5	15.5
31	LAKHIMPUR	33.0	85.1	14.9
32	CHIRANG	32.4	86.7	13.3
33	CACHAR	30.0	89.5	10.5
	State/UT Average	36.2	79.3	20.7

## What students have to say

**97%**

Students like to go to school

**69%**

Students use home language as medium of instruction in the class

**74%**

CWSN students get facilities from school

**96%**

Students could understand, what teachers teach in the class

**73%**

Students get parental support for their educational achievement

## What teachers have to say

**13%**

Teachers have adequate instructional material and supplies

**30%**

Teachers have adequate work space

**27%**

Teachers say that they are overloaded with the work

**54%**

Teachers have responded that the school building needs major repair

**41%**

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

**39%**

Teachers have responded that there are inadequate toilet facilities in school

**38%**

Teachers participated in professional development program

**92%**

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%**

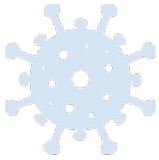
of head teachers responded that schools have adequate audio visual resources

**24%**

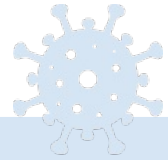
of head teachers responded that schools have adequate library resources

**98%**

of head teachers responded that schools participate in sports activities



## Learning At Home During The Pandemic



I learnt many things :

Painting

Singing

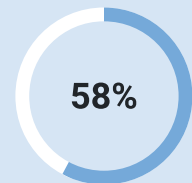
Cooking

Indoor Game

Yoga

Playing Musical Instrument

Spent joyful time with my parents / grandparents / siblings



69%  
Learning from  
pandemic

34%  
Obstacles to  
learning in  
pandemic

## Experiences During Pandemic

37%

No Digital Device at Home

89%

Follow the Covid-19 hygiene protocols

99%

Understand the protocols for COVID symptom reporting

99%

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

48%

Experienced worry, anxiety and fear during pandemic

35%

Happy being by myself at home

99%

Know about the school reopening guidelines



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

LO Code	Learning Outcomes for Class 10	State Average Performance	National Average Performance
<b>Mathematics</b>			
M1001	Generalises properties of numbers and relations among them studied earlier to evolve results, such as, Euclid's division algorithm, Fundamental Theorem of Arithmetic and applies them to solve problems related to real life contexts.	38	40
M1002	Develops a relationship between algebraic and graphical methods of finding the zeroes of a polynomial.	33	32
M1003	Finds solutions of pairs of linear equations in two variables using graphical and different algebraic methods.	35	30
M1004	Demonstrates strategies of finding roots and determining the nature of roots of a quadratic equation.	39	36
M1005	Develops strategies to apply the concept of A.P. to daily life situations. Works out ways to differentiate between congruent and similar figures.	35	37
M1006	Establishes properties for similarity of two triangles logically using different geometric criteria established earlier such as, Basic Proportionality Theorem, etc.	30	32
M1007	Derives formulae to establish relations for geometrical shapes in the context of a coordinate plane, such as, finding the distance between two given points, to determine the coordinates of a point between any two given points, to find the area of a triangle etc.	28	28
M1008	Determines all trigonometric ratios with respect to a given acute angle (of a right triangle) and uses them in solving problems in daily life contexts like finding heights of different structures or distance from them.	34	33
M1009	Derives proofs of theorems related to the tangents of circles.	37	36
M1010	Examines the steps of geometrical constructions and reason out each step	20	21
M1011	Finds surface areas and volumes of objects in the surroundings by visualising them as a combination of different solids like cylinder and a cone, cylinder and a hemisphere, combination of different cubes, etc.	31	35
M1012	Calculates mean, median and mode for different sets of data related with real life contexts.	26	27
<b>Science</b>			
SCI1001	Differentiates materials, objects, organisms, phenomena, and processes, based on, properties and characteristics.	36	37
SCI1002	Classifies materials, objects, organisms, phenomena, and processes, based on properties and characteristics.	33	36
SCI1003	Relates processes and phenomena with causes and effects	40	40
SCI1004	Explains processes and phenomena.	34	36
SCI1005	Analyses and interprets data, graphs, and figures	30	30
SCI1006	Calculates using the data given	27	28
SCI1007	Uses scientific conventions to represent units of various quantities, symbols, formulae, and equations.	40	38
SCI1008	Applies learning to hypothetical situations	33	33
SCI1009	Applies scientific concepts in daily life and solving problems	35	36
SCI1010	Derives formulae, equations, and laws	29	28

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

LO Code	Learning Outcomes for Class 10	State Average Performance	National Average Performance
MIL			
MIL1011	पाठ्यवस्तु में शामिल रचनाओं के अतिरिक्त अन्य कविता, कहानी, एकांकी को पढ़ते-लिखते और मंचन करते हैं।	38	41
Social Science			
SST1001	Recognises and retrieves facts, figures, and narrate processes.	33	34
SST1002	Classifies and compares events, facts, data, and figures.	34	37
SST1003	Explains cause and effect relationship between phenomena, events, and their occurrence.	34	36
SST1004	Analyses and evaluates information.	32	33
SST1005	Interprets: Maps, texts, symbols, cartoons, photographs, posters, newspaper clippings, climatic regions, changes in maps brought out by various treaties in Europe, sea and land links of the trade from India to West Asia, South East Asia and other parts of the world, pie and bar diagrams related to gross domestic product, production in different sectors and industries, employment and population in India	36	42
SST1006	Draws interlinkages within Social Science.	24	27
SST1007	Identifies assumptions, biases, prejudices, or stereotypes about various aspects.	55	51
SST1008	Demonstrates inquisitiveness, enquiry.	45	45
SST1009	Constructs views, arguments, and ideas on the basis of collected or given information.	25	28
SST1010	Extrapolates and predicts events and phenomena.	36	35
SST1011	Illustrates decision making/problem solving skills.	46	45
SST1012	Shows sensitivity and appreciation skills.	33	37
English			
E1007	Reads, comprehends and responds to complex texts independently.	41	43

Average performance less than 50 percent

## Achievement in Association with Contextual Variable

<b>A</b>	Gender		
<b>B</b>	School Location		
<b>C</b>	Management - Govt.		
<b>D</b>	Management - Govt. Aided		
<b>E</b>	Management - Private		
<b>F</b>	Management - Central Govt.		
<b>G</b>	Social Group - SC		
<b>H</b>	Social Group - ST		
<b>I</b>	Social Group - OBC		
<b>J</b>	Social Group - General		

<span style="color: red;">■</span>	Positive Difference
<span style="color: orange;">■</span>	Negative Difference
<span style="color: lightgrey;">■</span>	Difference is not Significant
<span style="color: darkgrey;">■</span>	Missing Value

		A	B	C	D	E	F	G	H	I	J
<b>Class 3</b>	Learning during COVID	■	■	■	■	■	■	■	■	■	■
	School environment	■	■	■	■	■	■	■	■	■	■
	Teaching tools and techniques	■	■	■	■	■	■	■	■	■	■
	Student counselling and coaching	■	■	■	■	■	■	■	■	■	■
	Infrastructure	■	■	■	■	■	■	■	■	■	■
	Pedagogical support	■	■	■	■	■	■	■	■	■	■
<b>Class 5</b>	Learning during COVID	■	■	■	■	■	■	■	■	■	■
	School environment	■	■	■	■	■	■	■	■	■	■
	Teaching tools and techniques	■	■	■	■	■	■	■	■	■	■
	Student counselling and coaching	■	■	■	■	■	■	■	■	■	■
	Infrastructure	■	■	■	■	■	■	■	■	■	■
	Pedagogical support	■	■	■	■	■	■	■	■	■	■
<b>Class 8</b>	Learning during COVID	■	■	■	■	■	■	■	■	■	■
	School environment	■	■	■	■	■	■	■	■	■	■
	Teaching tools and techniques	■	■	■	■	■	■	■	■	■	■
	Student counselling and coaching	■	■	■	■	■	■	■	■	■	■
	Infrastructure	■	■	■	■	■	■	■	■	■	■
	Pedagogical support	■	■	■	■	■	■	■	■	■	■
<b>Class 10</b>	Learning during COVID	■	■	■	■	■	■	■	■	■	■
	School environment	■	■	■	■	■	■	■	■	■	■
	Teaching tools and techniques	■	■	■	■	■	■	■	■	■	■
	Student counselling and coaching	■	■	■	■	■	■	■	■	■	■
	Infrastructure	■	■	■	■	■	■	■	■	■	■
	Pedagogical support	■	■	■	■	■	■	■	■	■	■

# NAS 2021 Team

National Steering Committee (NAS-2021)	
Chairman	Dr. Vineet Joshi, IAS, Chairman, CBSE w.e.f. 15.02.2022
	Shri Manoj Ahuja, IAS, Chairperson, CBSE upto 14.02.2022
Member	Shri Maneesh Garg, IAS, Joint Secretary, DoSEL, Ministry of Education
Member	Prof. (Dr.) Dinesh Prasad Saklani, Director, NCERT w.e.f. 14.02.2022
	Prof. (Dr.) Sridhar Srivastava, Director, NCERT upto 13.02.2022
Member	Shri P K Banerjee, DDG (Stats) Ministry of Education upto 07.09.2021
	Shri V. Hedge, DDG (Stats) Ministry of Education w.e.f. 10.12.2021
Member	Shri Prem Singh, IAS, Adviser (HRD/Admn/GA/Accts.) (North Eastern States), NITI Aayog
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Member	Shri J. P. Pandey, Director, DoSEL, Ministry of Education
Member	Shri Manoj Kumar Srivastava, Director (PE) & Head NAS Cell, CBSE
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Member	Shri Ramachandra Rao Begur, Education Specialist, UNICEF

Sub-Committee - Data Analysis, Reporting and Dissemination	
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Member	Prof. (Dr.) Sridhar Srivastava, Joint Director
Member Secretary	Prof. (Dr.) Indrani Bhaduri, Head, ESD & Head NAS Cell, NCERT
Member	Shri J.P. Pandey, Director, DoSEL, Min. of Education
Member	Shri P K Banerjee, DDG (Stats) Ministry of Education upto 09.12.2021
	Shri V. Hedge, DDG (Stats) Ministry of Education w.e.f. 10.12.2021
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Member	Shri Saba Akhtar, Scientist-F, NIC
Member	Shri Ganesh Nigam, Education Specialist, UNICEF

# NAS 2021 Team

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Ministry of Education		

Sh. Dalbir Singh, Under Secretary

Sh. Pratham Sagar (ASO)

Sh. Atiqur Rahman, YP

Central Board of Secondary Education (CBSE)		
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Ms. Mamta Khanna (PPS)

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