



National Achievement Survey 2021

SHAMLI (PRABUDH NAGAR)
(UTTAR PRADESH)

DISTRICT REPORT CARD

About NAS

NAS is a 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 (Fls), 1.24 lakh Observers, 36 State Nodal Officers, 733 District Level Coordinators and Officers Nodal District engaged. were 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 ଧର୍ମେଦ୍ର ପ୍ରଧାନ Dharmendra Pradhan





मंत्री शिक्षा; कौशल विकास और उद्यमशीलता भारत सरकार

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 inidentifying 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



कौशल भारत, कुशल भारत





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 12th 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 21st 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.

(ANNPURNA DEVI)





अनीता करवल, मा.प्र.से सचिव

Anita Karwal, IAS Secretary



स्कूल शिक्षा और साक्षरता विभाग 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 12th 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 indepth 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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SHAMLI (PRABUDH NAGAR) (Uttar Pradesh)



Demographic profile of the district (Source: Census of India, 2011)

Total District Area

Total Population

Rural Population

Urban Population

Density of Population

Literacy Rate

Child Sex Ratio (0-6 Years)

Educational profile of the district (Source: UDISE+ 2020-21)

Total Number of Schools

1,431

Total Number of Teachers

7,452

State Govt. Schools

620

State Govt. Teachers

2,869

Govt. Aided Schools

47

Govt. Aided Teachers

485

Central Govt. Schools

Central Govt. Teachers

Private Un-aided Recognized Schools

763

Teachers In Private Un-aided Recognized Schools

4,091

NAS 2021 RESULTS FOR Class 3

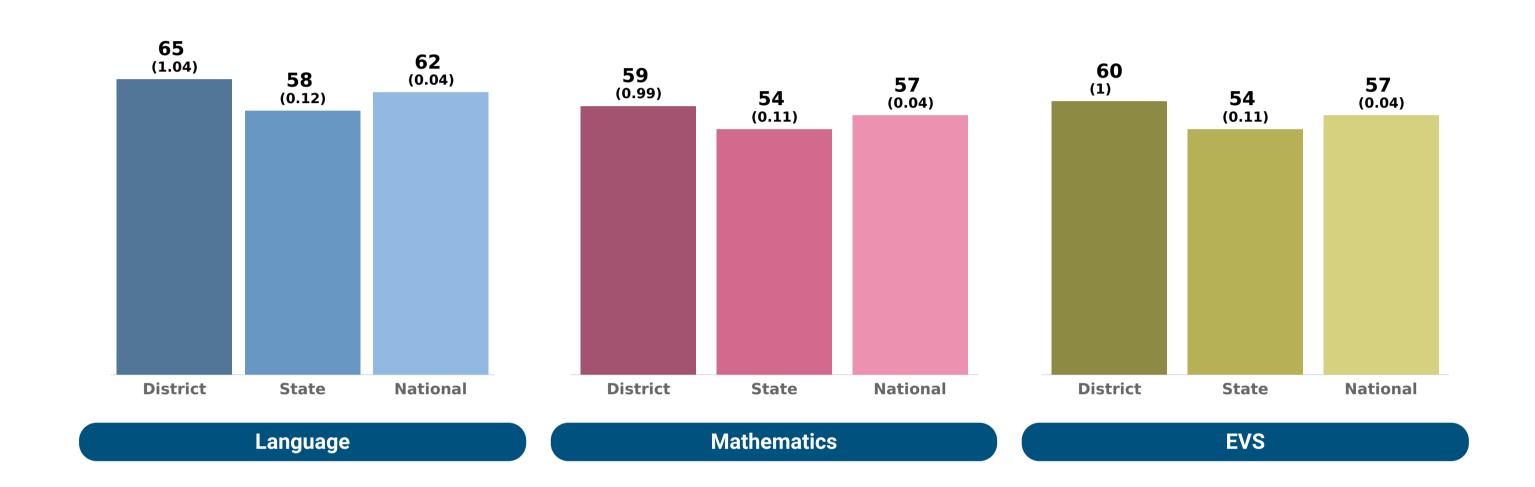


Total Participation



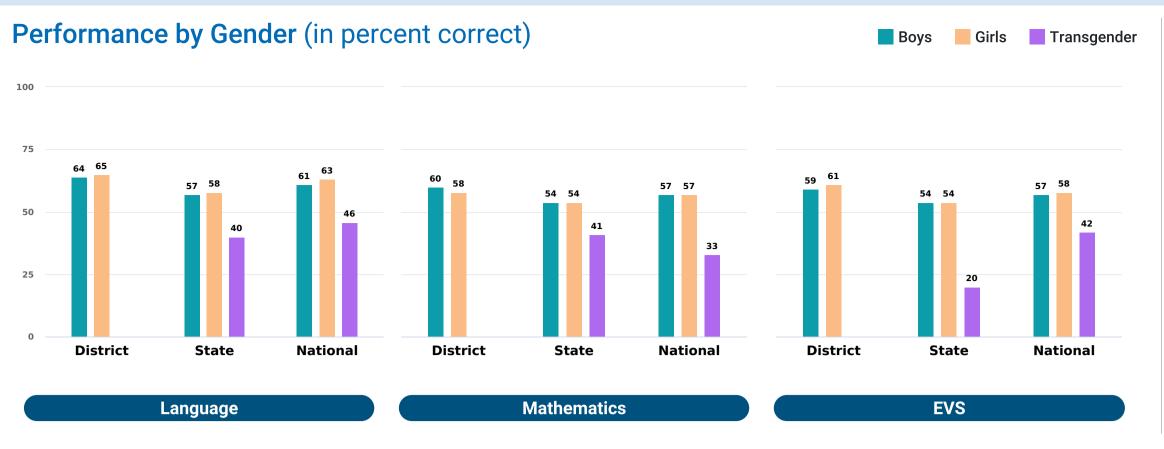
District Performance of Students vis-a-vis State and National

in percent correct (standard error)

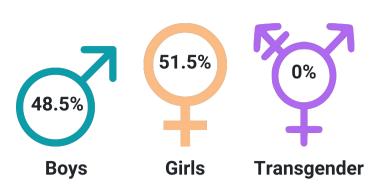


Percentage of Students by Performance Level

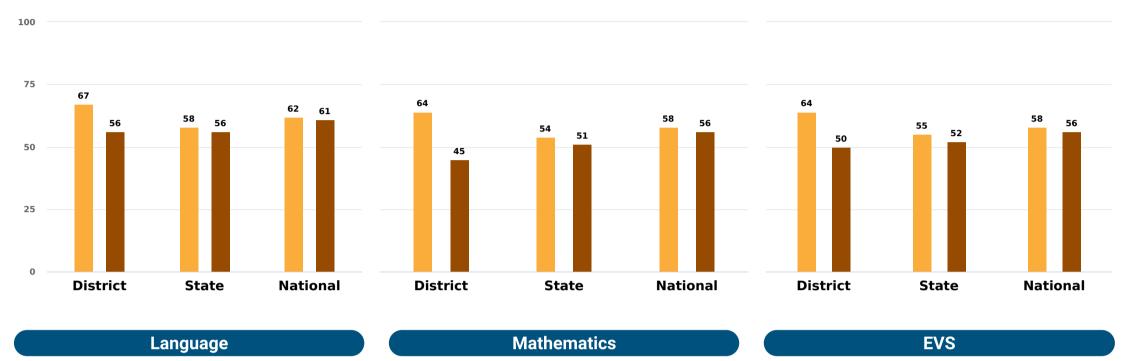
	Below basic	Basic	Proficient	Advanced
Language	25	34	23	19
Mathematics	22	31	31	16
EVS	24	25 38 13		
Below Basic	Learners at this level are at the early stages of development regarding the curriculum standards. They have not achieved the required knowledge and skill to be considered minimally successful regarding curriculum demands. They need guidance at every stage of learning. They need a lot of encouragement and support.			ording curriculum demands.
Basic	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.			
Proficient	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.			solve problems. They can ing with minimum guidance
Advanced	Advanced Learners at this level display exceptional mastery of the learning content as prescribed by the curriculum and beyon They are independent with high analytical, reflective and critical thinking. They can connect and integrate concept and ideas to create new knowledge/meaning and solve complex problems. They communicate information with thighest level of creativity and coherence as well as make sound judgements.			nect and integrate concepts
EVS - Environmental Studies				



Participation by Gender

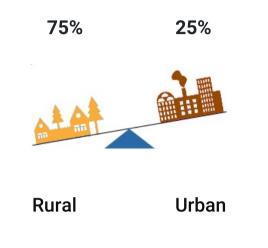




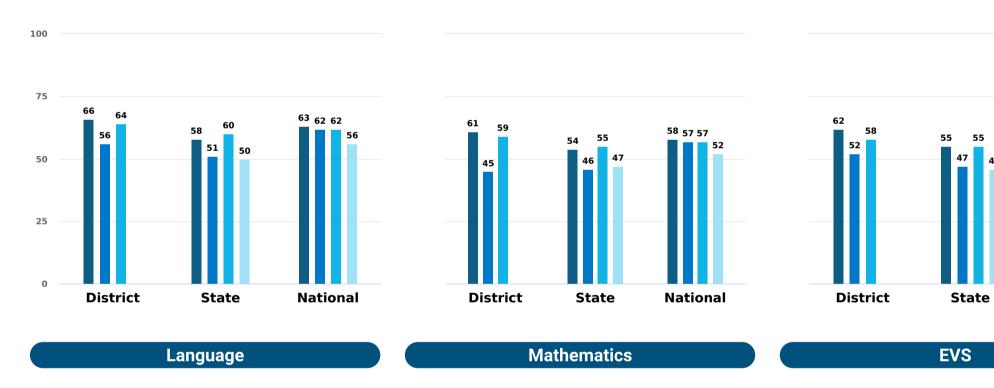


Participation by Location

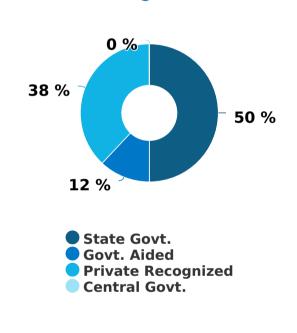
Urban



Performance by Management (in percent correct) ■ State Govt. ■ Govt. Aided ■ Private Recognized

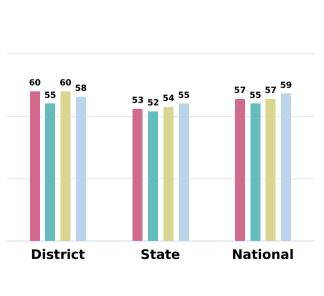


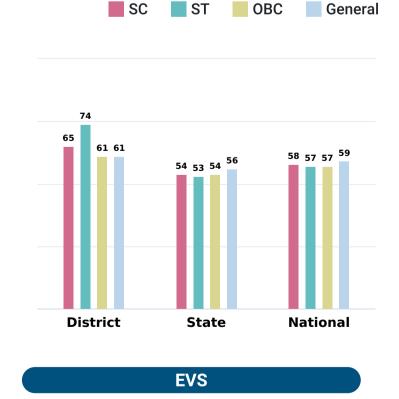
Participation by Management



Performance by Social Group (in percent correct)

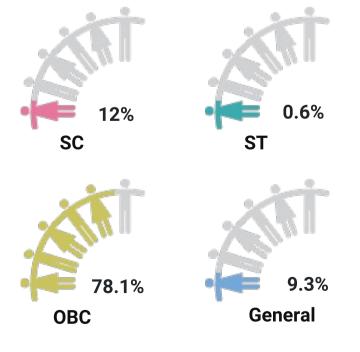






National

Participation by Social Group



LO Code	Learning Outcomes for Class 3	District Average Performance	State Average Performance	National Average Performance
	Language			
L304	Reads small texts with comprehension i.e., identifies main ideas, details,sequence and draws conclusions	66	60	64
L312	Reads printed scripts on the classroom walls: poems, posters, charts etc.	62	54	58
	Mathematics			
M301	Reads and writes numbers up to 999 using place value	46 🔔	41 🚣	45 🔔
M302	Compares numbers up to 999 based on their place values	69	66	70
M303	Solves simple daily life problems using addition and subtraction of three digit numbers with and without regrouping	58	50	53
M304	Constructs and uses the multiplication facts (up till 10) in daily life situations	64	60	61
M305	Analyses and applies an appropriate number operation in the situation/ context	58	51	53
M306	Explains the meaning of division facts by equal grouping/sharing and finds it by repeated subtraction	55	45 🔔	47 🔔
M309	Identifies and makes 2D-shapes by paper folding. paper cutting on the dot grid, using straight lines etc.	50	41 🔔	43 🔔
M311	Fills a given region leaving no gaps using a tile of a given shape	54	53	56
M312	Estimates and measures length and distance using standard units like centimeters or meters & identifies relationships	54	47 🔔	50
M317	Reads the time correctly to the hour using a clock/watch	72	68	71
M318	Extends patterns in simple shapes and numbers	59	52	56
M319	Records data using tally marks, represents pictorially and draws	54	47 🔔	53
	EVS			
EVS302	Identifies simple features (e.g. movement, at places found/ kept, eating habits, sounds) of animals and birds in the immediate surroundings.	64	56	62
EVS303	Identifies relationships with and among family members	55	49 🔔	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	66	62	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.	62	51	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)	68	61	63
EVS309	Identifies directions, location of objects/places in simple maps using signs/symbols/ verbally	62	60	66
EVS310	Guesses properties, estimates quantities of materials/activities in daily life and verifies using symbols/non-standard units	68	64	67
EVS311	Records observations, experiences, information on objects/activities/places visited in different ways and predicts patterns etc	58	52	54
EVS313	Observes rules in games (local, indoor, outdoor)	46 🔔	39 🛕	43 🛕
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	59	63

Average performance less than 50 percent

What students have to say

99%

Students like to go to school

93%

Students use same language at home as medium of instruction in the class

97%

Students could understand, what teachers teach in the class

75%

Students go out and play during games period

57%

Students have access to digital devices in the school

42%

Students have internet connectivity at home

68%

Student get parental support for their educational achievement

What teachers have to say

53%

Teachers have adequate instructional material and supplies

64%

Teachers have adequate work space

38%

Teachers say that they are overloaded with the work

26%

Teachers have responded that the school building needs significant repair

5%

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

5%

Teachers have responded that there are inadequate toilet facilities in school

51%

Teachers participated in professional development program

73%

Teachers have responded that the parents take interest in school activities

99%

Teachers know the protocol for COVID symptoms reporting

100%

Measures to be taken for wellbeing of children and school staff

99%

Teachers are aware of school reopening guidelines

What head teachers have to say

78%

of head teachers responded that schools have adequate qualified teaching staff

52%

of head teachers responded that schools have adequate supporting staff

37%

of head teachers responded that schools have adequate audio visual resources

47%

of head teachers responded that schools have adequate library resources

95%

of head teachers responded that schools participate in sports activities

NAS 2021 RESULTS FOR Class 5

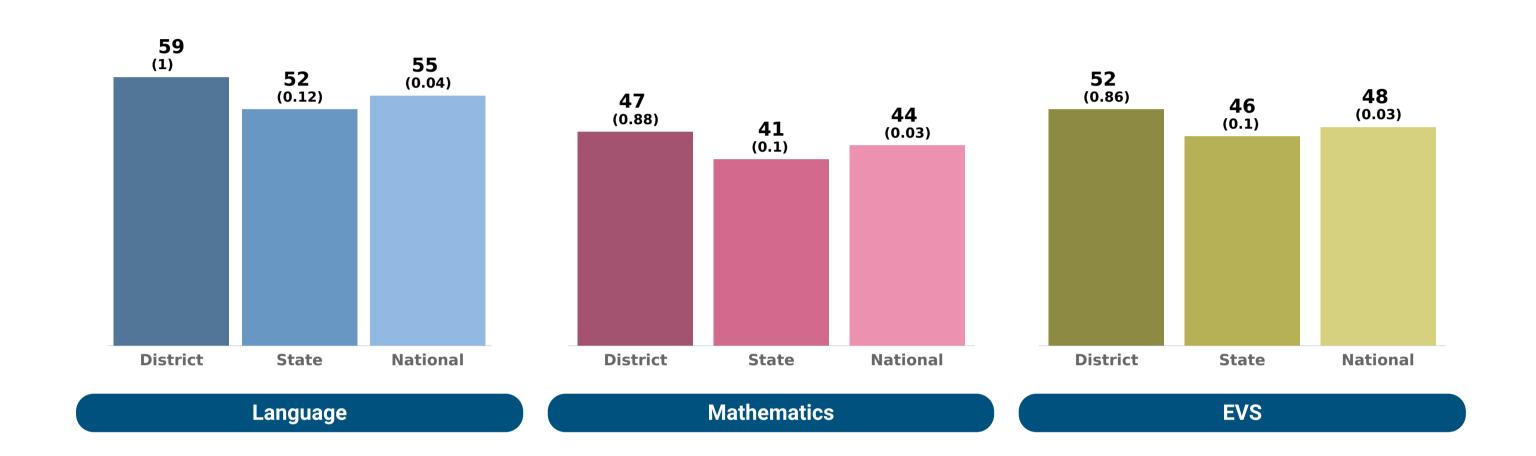


Total Participation



District Performance of Students vis-a-vis State and National

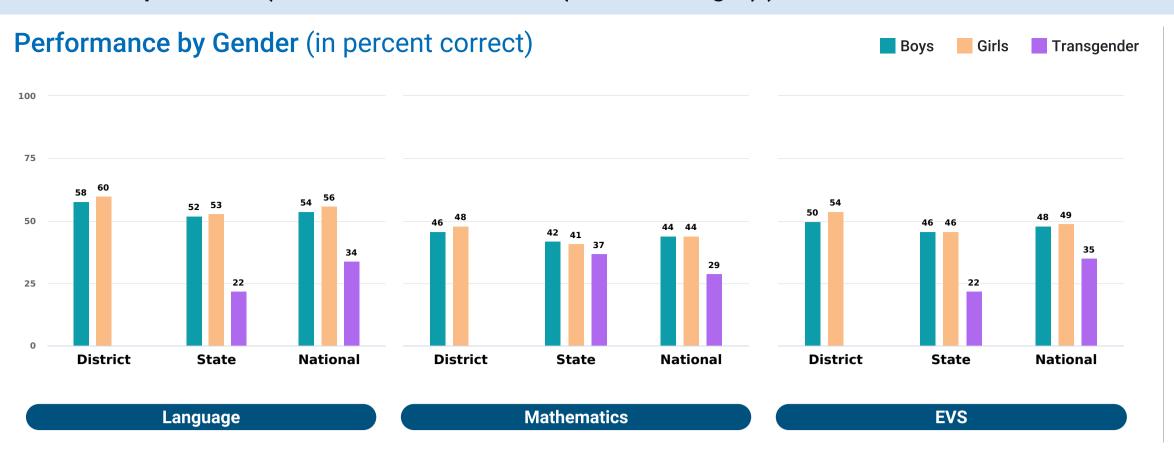
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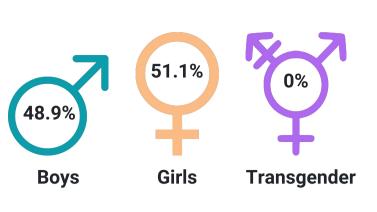
Percentage of Students by Performance Level

	Below basic	Basic	Proficient	Advanced
Language	16	37	35	12
Mathematics	26	45	24	5
EVS	25	37 30 7		
Below Basic	Learners at this level are at the early stages of development regarding the curriculum standards. They have no 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.			
Basic	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.			
Proficient	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.			
Advanced Learners at this level display exceptional mastery of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and beyon the property of the learning content as prescribed by the curriculum and the property of the learning content as prescribed by the curriculum and the prescribed by the curriculum an			ect and integrate concepts	

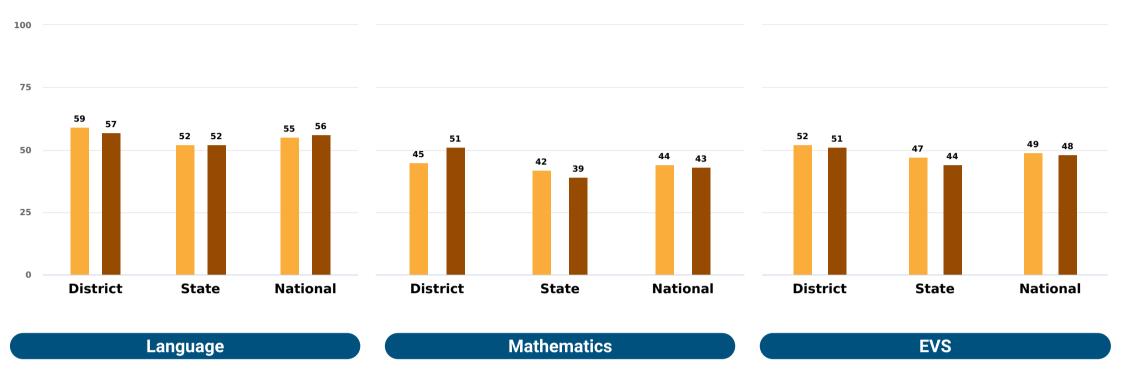
^{*} EVS - Environmental Studies



Participation by Gender

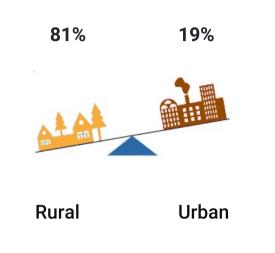


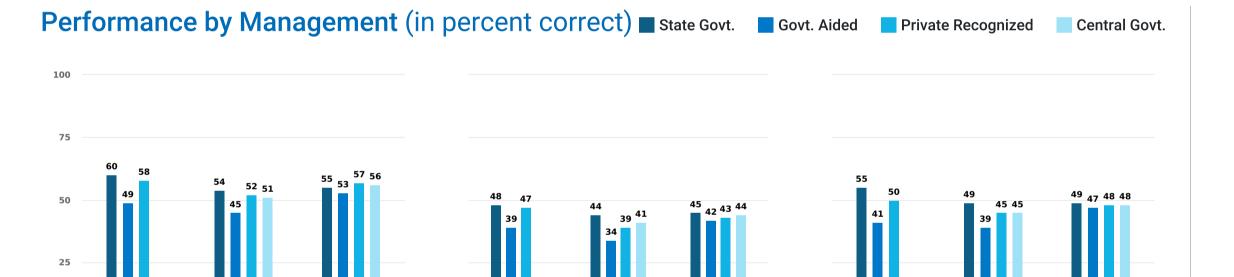




Participation by Location

Urban





State

Mathematics

National

District

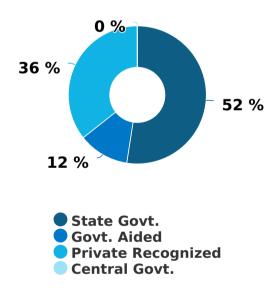
State

EVS

National

District

Participation by Management



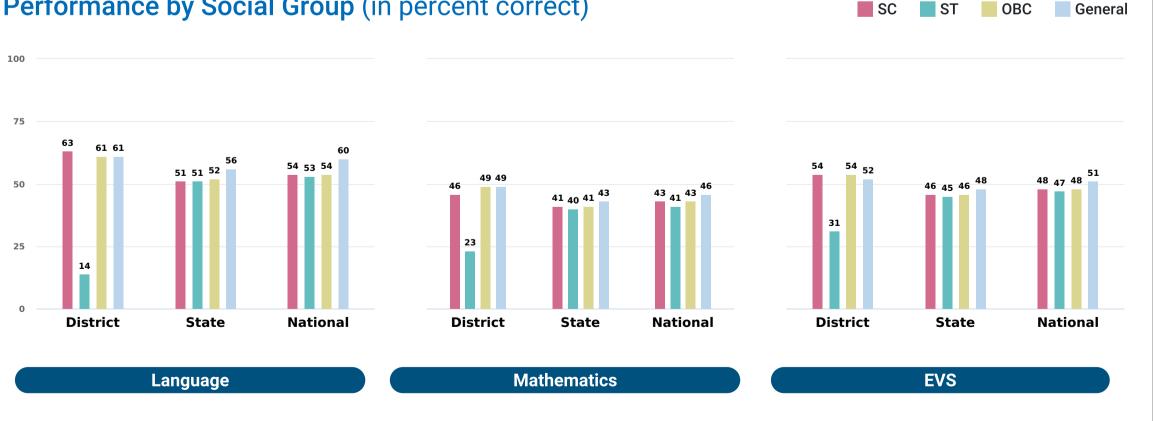
Performance by Social Group (in percent correct)

National

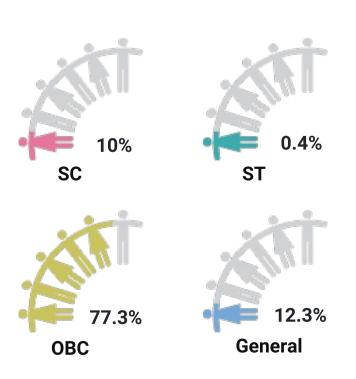
State

Language

District



Participation by Social Group



LO Code	Learning Outcomes for Class 5	District Average Performance	State Average Performance	National Average Performance
	Language			
L508	Reads text with comprehension, locates details and sequence of events	59	52	55
	Mathematics			
M401	Applies operations of numbers in daily life situations	48 🔔	41 🔔	45 🔔
M412	Explores the area and perimeter of simple geometrical shapes (triangle, rectangle, square) in terms of given shape as a unit	36 🛕	34 🗘	36 🛕
M418	Calculates time intervals/duration of familiar daily life events by using forward or backward counting/addition and subtraction	54	44 🗘	47 🔔
M421	Represent the collected information in tables and bar graphs and draws inferences from these	41 🛕	38 🗘	42 🔔
M501	Reads and writes numbers bigger than 1000 being used in her/his surroundings	55	50	55
M504	Estimates sum. difference, product and quotient of numbers and verifies the same using different strategies like using standard algorithms or breaking a number and then using operation	49 🛕	43 🛕	46 🔔
M505	Finds the number corresponding to part of a collection	56	51	55
M506	Identifies and forms equivalent fractions of a given fraction	43 🔔	37 🔔	38 🔔
M508	Converts fractions into decimals and vice versa	51	42 🔔	43 🔔
M509	Classifies angles into right angle, acute angle, obtuse angle and represents the same by drawing and tracing	51	46 🔔	48 🔔
M512	Relates different commonly used larger and smaller units of length, weight and volume and converts larger units to smaller units and vice versa	47 🗘	37 🗘	38 🔔
M513	Estimates the volume of a solid body in known units.	42 🔥	40 🔔	41 🔔
M514	Applies the four fundamental arithmetic operations in solving problems involving money, length, mass, capacity and time intervals	45 🛕	42 🔔	43 🔔
M515	Identifies the pattern in triangular numbers and square number	51	44 🗘	46 🔔
M516	Collects data related to various daily life situations. represents it in tabular form and as bar graphs and interprets it	47 🗘	40 🔔	46 🔔
	EVS			
EVS403	Identifies relationship with and among family members in extended family	51	46 🗘	50
EVS410	Records observations/experiences/information for objects, activities, phenomena, places visited in different ways and predicts patterns and activities/ phenomena	55	48 🗘	50
EVS501	Explains the super senses and unusual features (sight, smell, hear, sleep, sound, etc.) of animals and their responses to light, sound, food etc.	49 🛕	44 🔔	45 🔔
EVS503	Describes the interdependence among animals, plants and humans	52	46 🔔	50
EVS504	Explains the role and functions of different institutions in daily life (Bank, Panchayat, cooperatives. police station, etc.)	58	47 🔔	48 🔔
EVS505	Establishes linkages among terrain, climate, resources (food, water, shelter, livelihood) and cultural life. (e.g. life in distant/difficult areas like hot/cold deserts)	53	45 🔔	48 🔔
EVS506	Groups objects, materials, activities for features/properties such as shape, taste, color , texture, sound, traits etc.	54	48 🔔	48 🔔
EVS507	Traces the changes in practices, customs, techniques of past and present through coins, paintings, monuments, museum etc. and interacting with elders	52	48 🔔	47 🔔

Average performance less than 50 percent

LO Code	Learning Outcomes for Class 5	District Average Performance	State Average Performance	National Average Performance
EVS508	Guesses (properties, conditions of phenomena), estimates spatial quantities (distance, area, volume, weight etc.) and time in simple standard units and verifies using simple tools/set ups	50	47 🔔	48 🗘
EVS509	Records observations/experiences/information in an organized manner (e.g. in tables/sketches/bar graphs/pie charts) and predicts patterns in activities/phenomena (e.g. floating, sinking, mixing, evaporation, germination, spoilage) to establish relation between cause and effect.	57	50	55
EVS510	Identifies signs, directions, location of different objects/landmarks of a locality / place visited in maps and predicts directions w.r.t. positions at different places for a location	47 🗘	42 🔔	45 🗘
EVS512	Voices opinions on issues observed/experienced and relates practices/happenings to larger issues of society	62	50	54
EVS513	Suggests ways for hygiene, health, managing waste. disaster/emergency situations and protecting/saving resources	33 🛕	33 🛕	35 🚣

Average performance less than 50 percent

What students have to say

100%

Students like to go to school

94%

Students use same language at home as medium of instruction in the class

100%

Students could understand, what teachers teach in the class

79%

Students go out and play during games period

64%

Students have access to digital devices in the school

61%

Students have internet connectivity at home

69%

Student get parental support for their educational achievement

What teachers have to say

44%

Teachers have adequate instructional material and supplies

54%

Teachers have adequate work space

41%

Teachers say that they are overloaded with the work

21%

Teachers have responded that the school building needs significant repair

11%

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

13%

Teachers have responded that there are inadequate toilet facilities in school

52%

Teachers participated in professional development program

82%

Teachers have responded that the parents take interest in school activities

99%

Teachers know the protocol for COVID symptoms reporting

99%

Measures to be taken for wellbeing of children and school staff

100%

Teachers are aware of school reopening guidelines

What head teachers have to say

78%

of head teachers responded that schools have adequate qualified teaching staff

52%

of head teachers responded that schools have adequate supporting staff

37%

of head teachers responded that schools have adequate audio visual resources

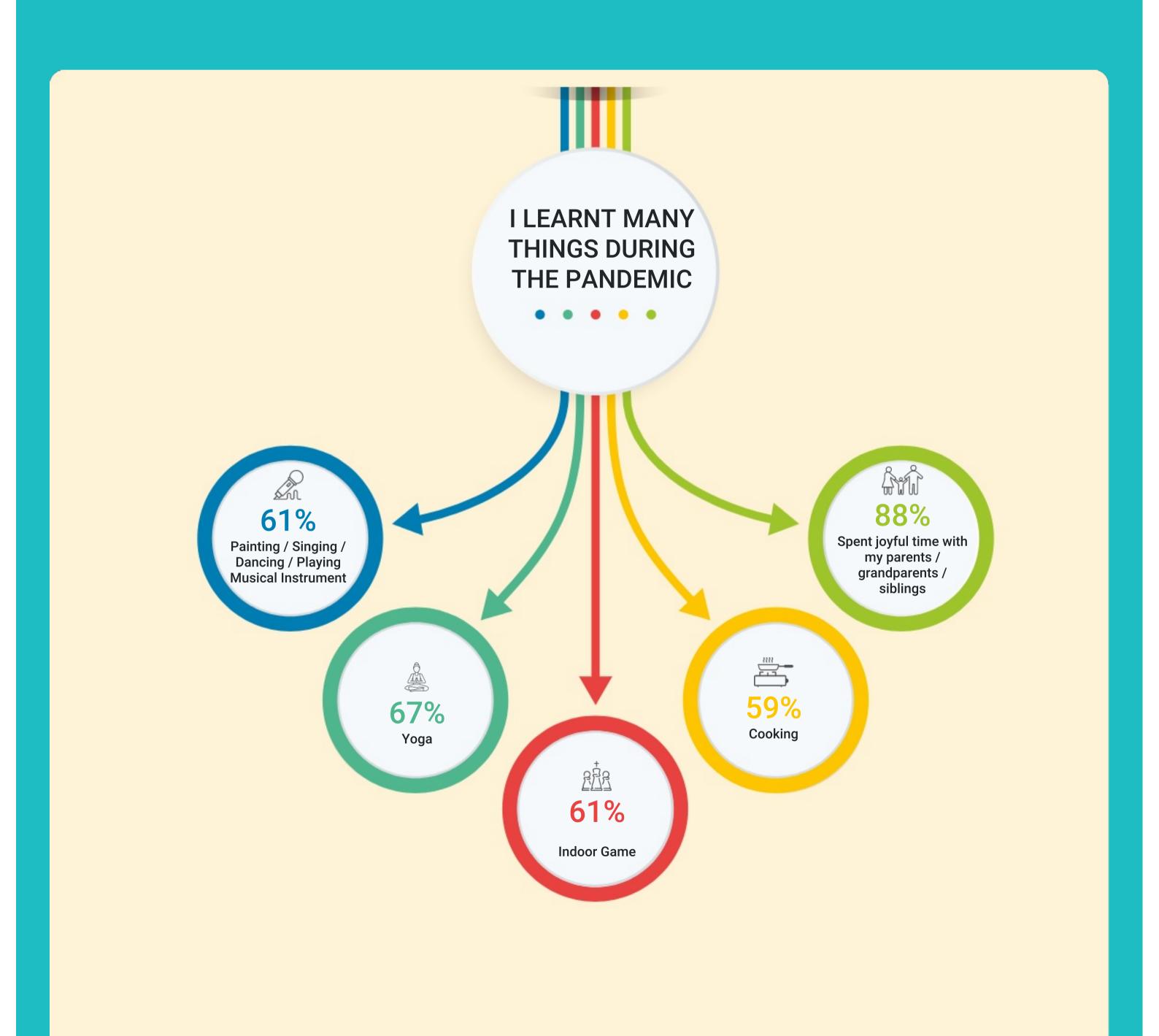
47%

of head teachers responded that schools have adequate library resources

95%

of head teachers responded that schools participate in sports activities

NAS 2021 RESULTS FOR Class 8

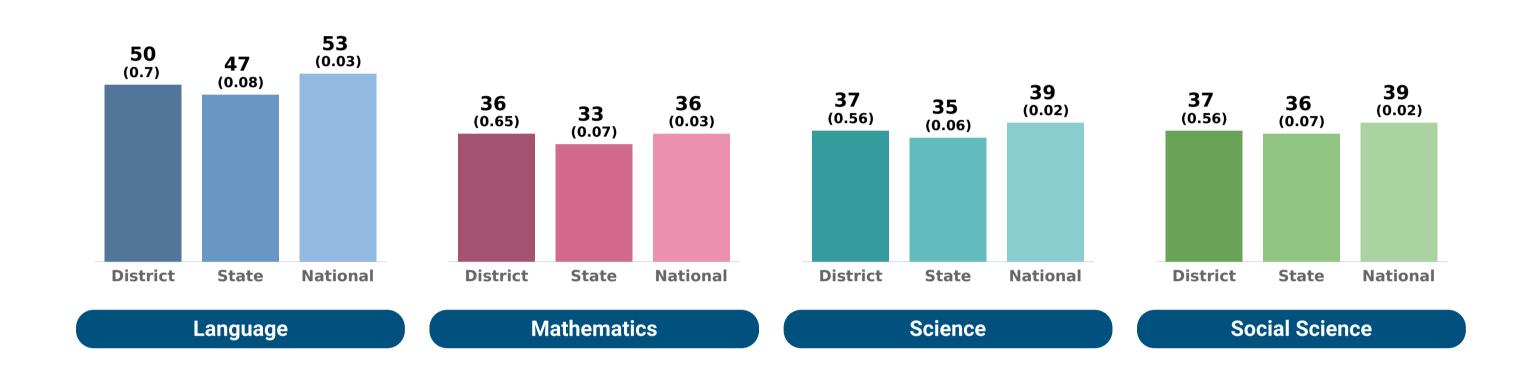


Total Participation



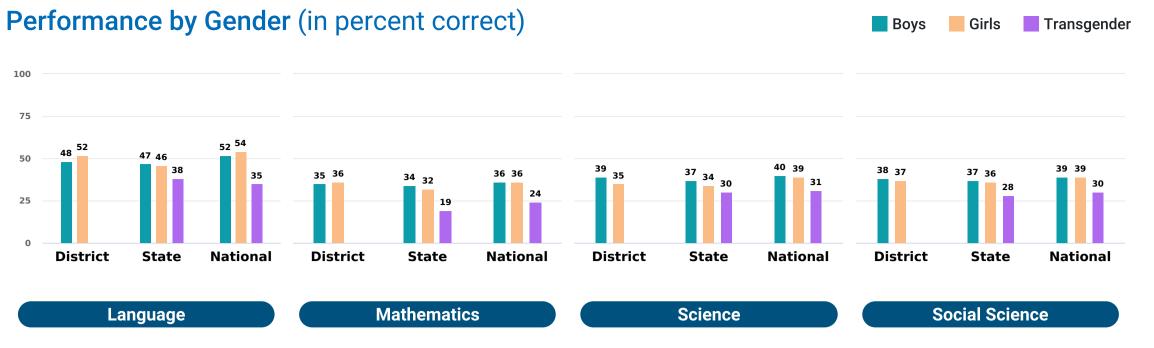
District Performance of Students vis-a-vis State and National

in percent correct (standard error)

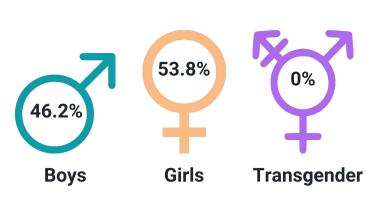


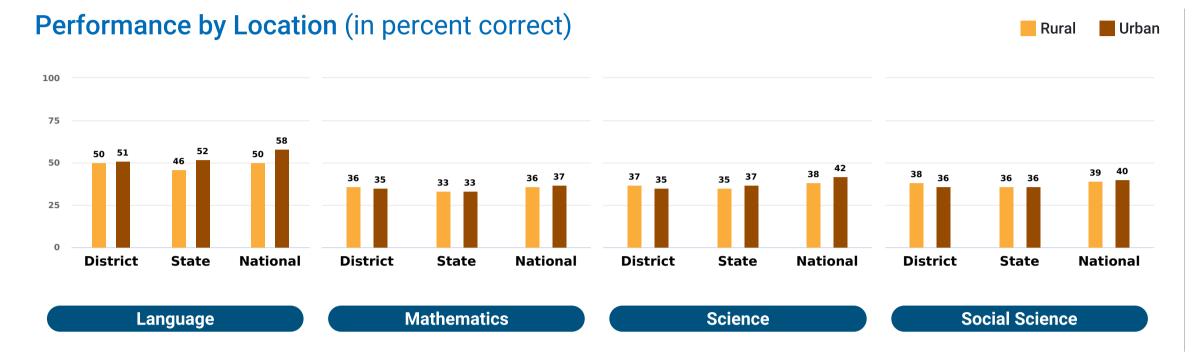
Percentage of Students by Performance Level

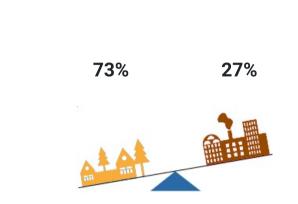
		Below basic	Basic	Proficient	Advanced
Language		24	47	19	10
Mathematics		28	44	21	7
Science		41	37	15	6
Social Science		43	44	8	4
Below Basic	Learners at this level are at the early stages of development regarding the curriculum standards. They have not achieved the required knowledge and skill to be considered minimally successful regarding curriculum demands. They need guidance at every stage of learning. They need a lot of encouragement and support.				
Basic	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.				
Proficient	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.				
Advanced Learners at this level display exceptional mastery of the learning content as prescribed by the curriculum and began and ideas to create new knowledge/meaning and solve complex problems. They communicate information with highest level of creativity and coherence as well as make sound judgements.			ect and integrate concepts		



Participation by Gender



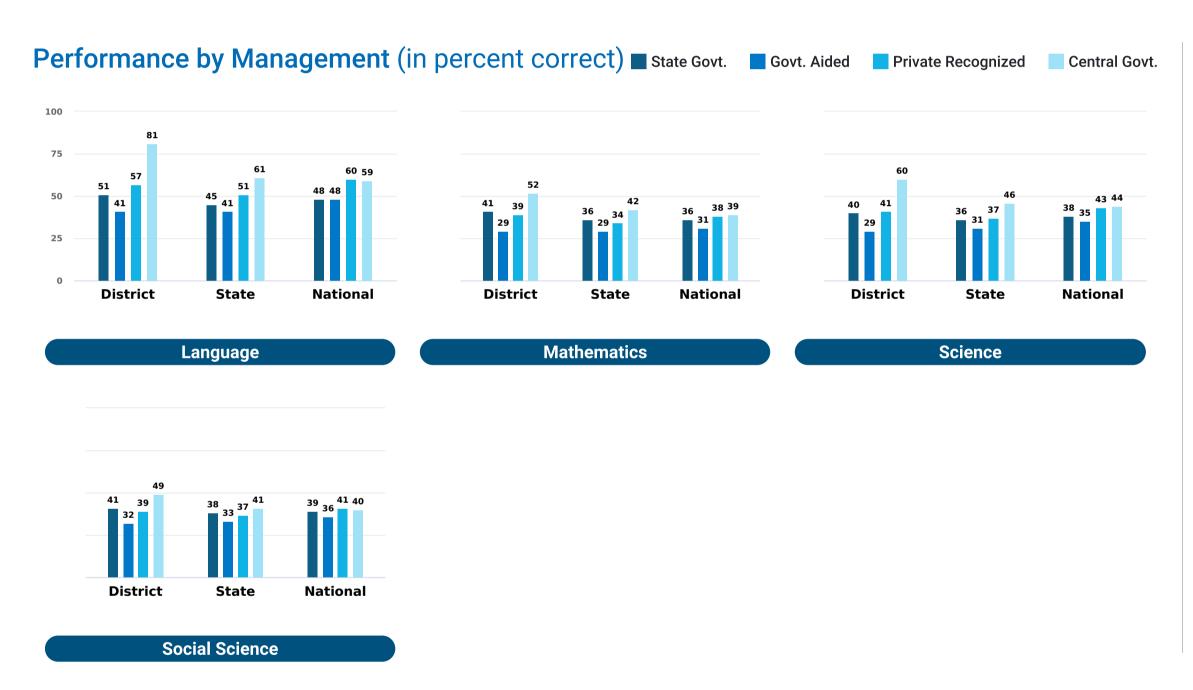


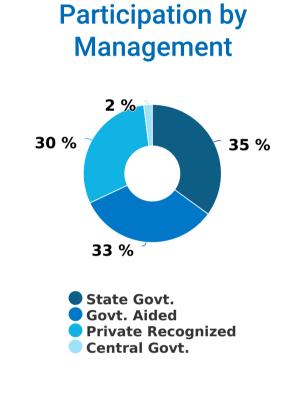


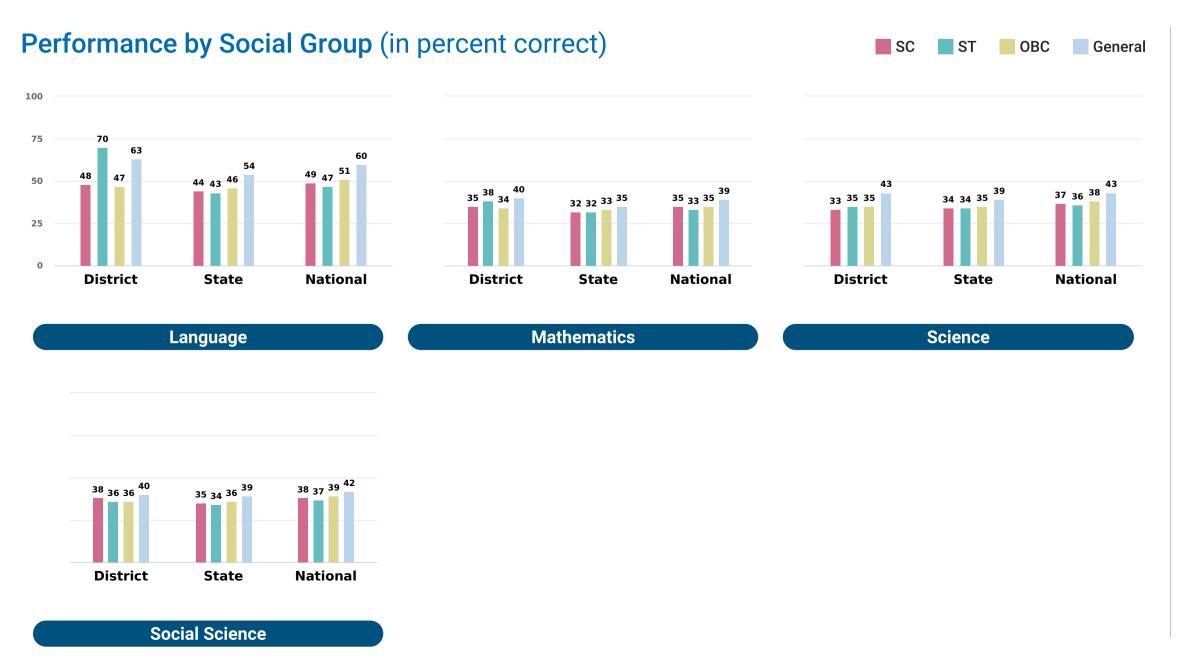
Urban

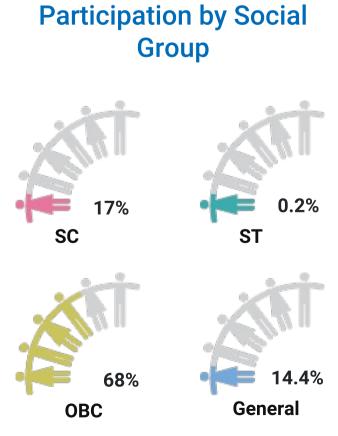
Rural

Participation by Location









LO Code	Learning Outcomes for Class 8	District Average Performance	State Average Performance	National Average Performance
	Language		1	
L813	Read textual/non-textual materials with comprehension and identifies the details, characters, main idea and sequence of ideas and events while reading	50	47 🔔	53
	Mathematics			
M601	Solves problems involving large numbers by applying appropriate operations	45 🔔	47 🗘	49 🛕
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	47 🗘	43 🔥	48 🗘
M620	Finds out the perimeter and area of rectangular objects in the surroundings like floor of the class room, surfaces of a chalk box etc.	29 🛕	28 🗘	29 🛕
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	39 🛕	36 🗘	41 🛕
M702	Interprets the division and multiplication of fractions	39 🛕	34 🛕	34 🛕
M705	Solves problems related to daily life situations involving rational numbers	23 🛕	22 🛕	23 🛕
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	26 🛕	29 🛕	28 🛕
M707	Adds/subtracts algebraic expressions	38 🛕	35 🛕	38 🗘
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	27 🛕	28 🛕	30 🛕
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	32 🛕	31 🛕	34 🗘
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	43 🛕	39 🔥	43 🔥
M721	Interprets data using bar graph such as consumption of electricity is more in winters than summer	34 🛕	29 🛕	37 🛕
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	34 🔔	31 🛕	34 🛕
M802	Finds rational numbers between two given rational numbers	40 🛕	35 🛕	40 🔔
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	47 🛕	41 🛕	43 🛕
M804	Finds squares,cubes,square roots and cube roots of numbers using different methods	34 🛕	33 🛕	34 🗘
M808	Uses various algebric identities in solving problem of daily life.	42 🗘	38 🔥	42 🛕
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	35 🛕	34 🗘	39 🛕
M818	Find surface area and volume of cuboidal and cylindrical object	32 🛕	27 🛕	30 🛕
M819	Draws and interprets bar charts and pie charts	28 🔔	25 🛕	30 🛕
	Science			
SCI703		35 🛕	34 🛕	39 🛕
	Conducts simple investigation to seek answers to queries	32 🛕	33 🛕	37 🛕
SCI705	Relates processes and phenomenon with causes	44 🗘	44 🗘	45 🗘
SCI708	Measures and calculates e.g temperature; pulse rate; speed of moving objects; time period of a simple pendulum, etc.	40 🛕	40 🗘	43 🛕
SCI710	Plots and interprets graphs	34 🔔	30 🛕	35 🛕
SCI711	Constructs models using materials from surroundings and explains their working	23 🔔	22 🔔	26 🔔
SCI801	Differentiates materials, organism and processes	42 🔔	40 🔔	46 🔔
SCI804	Relates processes and phenomenon with causes	29 🛕	30 🛕	34 🗘

LO Code	Learning Outcomes for Class 8	District Average Performance		State Average Performance	National Average Performance
SCI805	Explains processes and phenomenon	34	1	30 🛕	36 🔔
SCI807	Measures angles of incidence and reflection, etc.	33 🎍	1	31 🛕	34 🔔
SCI811	Applies learning of scientific concepts in day-to-day life	43	!	41 🛕	45 🔔
SCI813	Makes efforts to protect environment	41	!	40 🔔	44 🔔
	Social Science				
SST605	Identifies latitudes and longitudes, e.g., poles, equator, tropics, States /Ws of India and other neighboring countries on globe and the world map	38	1	37 🔥	40 🔔
SST610	Locates important historical sites, places on an outline map of India.	25 🎍	1	24 🛕	26 🔔
SST625	Describes the functioning of rural and urban local government bodies in sectors like health and education	40 4	1	35 🔥	35 🔔
SST703	Explains preventive actions to be undertaken in the event of disasters	38 🎍	1	35 🛕	46 🔔
SST704	Describes formation of landforms due to various factors	38 🗸	1	40 🔔	44 🔔
SST722	Explains the significance of equality in democracy	37	1	37 🛕	39 🛕
SST726	Describes the process of election to the legislative assembly	40 4	1	41 🛕	42 🔔
SST731	Explains the functioning of media with appropriate examples from newspapers	53		52	56
SST733	Differentiates between different kinds of markets	32	1	36 🛕	38 🔔
SST734	Traces how goods travel through various market places	40 🗸	1	39 🛕	41 🔔
SST802	Describes major crops, types of farming and agricultural practices in her/his own areaistate	40 🗸	1	40 🔔	39 🔔
SST805	Locates distribution of important minerals e.g. coal and mineral oil on the world map	29	!	26 🛕	28 🔔
SST807	Justifies judicious use of natural resources	34	!	34 🛕	37 🔔
SST809	Draws interrelationship between types of farming and development in different regions of the world	36	1	32 🛕	36 🔔
SST810	Distinguishes the modern period from the medieval and the ancient periods through the use of sources	28	1	29 🛕	28 🔔
SST815	Explains the origin, nature and spread of the revolt of 1857 and the lessons learned from it.	30 🗸	1	31 🛕	33 🔔
SST816	Analyses the decline of pre-existing urban centers and handicraft industries and the development of new urban centers and industries in India during the colonial period	26	1	21 🛕	27 🔔
SST818	Analyses the issues related to caste, women, widow remarriage, child marriage, social reforms and the laws and policies of colonial administration towards these issues	41	1	42 🔔	44 🔔
SST823	Applies the knowledge of the Fundamental Rights to find out about their violation. protection and promotion in a given situation	24	1	22 🛕	29 🔔
SST827	Describes the process of making a taw. (e.g. Domestic Violence Act, RTI Act, RTE Act)	30 🗸	1	33 🔥	36 🔔
SST831	Identifies the role of Government in providing public facilities such as water, sanitation, road, electricity etc, and recognizes their availability	38 🗸	1	39 🔥	37 🔔
SST833	Draws bar diagram to show population of different countries/India/states	58		50	61

Average performance less than 50 percent

What students have to say

79%

Students like to go to school

69%

Students use same language at home as medium of instruction in the class

79%

Students could understand, what teachers teach in the class

50%

Students go out and play during games period

60%

Students have access to digital devices in the school

44%

Students have internet connectivity at home

69%

Student get parental support for their educational achievement

What teachers have to say

45%

Teachers have adequate instructional material and supplies

74%

Teachers have adequate work space

36%

Teachers say that they are overloaded with the work

17%

Teachers have responded that the school building needs significant repair

7%

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

7%

Teachers have responded that there are inadequate toilet facilities in school

38%

Teachers participated in professional development program

76%

Teachers have responded that the parents take interest in school activities

99%

Teachers know the protocol for COVID symptoms reporting

99%

Measures to be taken for wellbeing of children and school staff

100%

Teachers are aware of school reopening guidelines

What head teachers have to say

78%

of head teachers responded that schools have adequate qualified teaching staff

52%

of head teachers responded that schools have adequate supporting staff

37%

of head teachers responded that schools have adequate audio visual resources

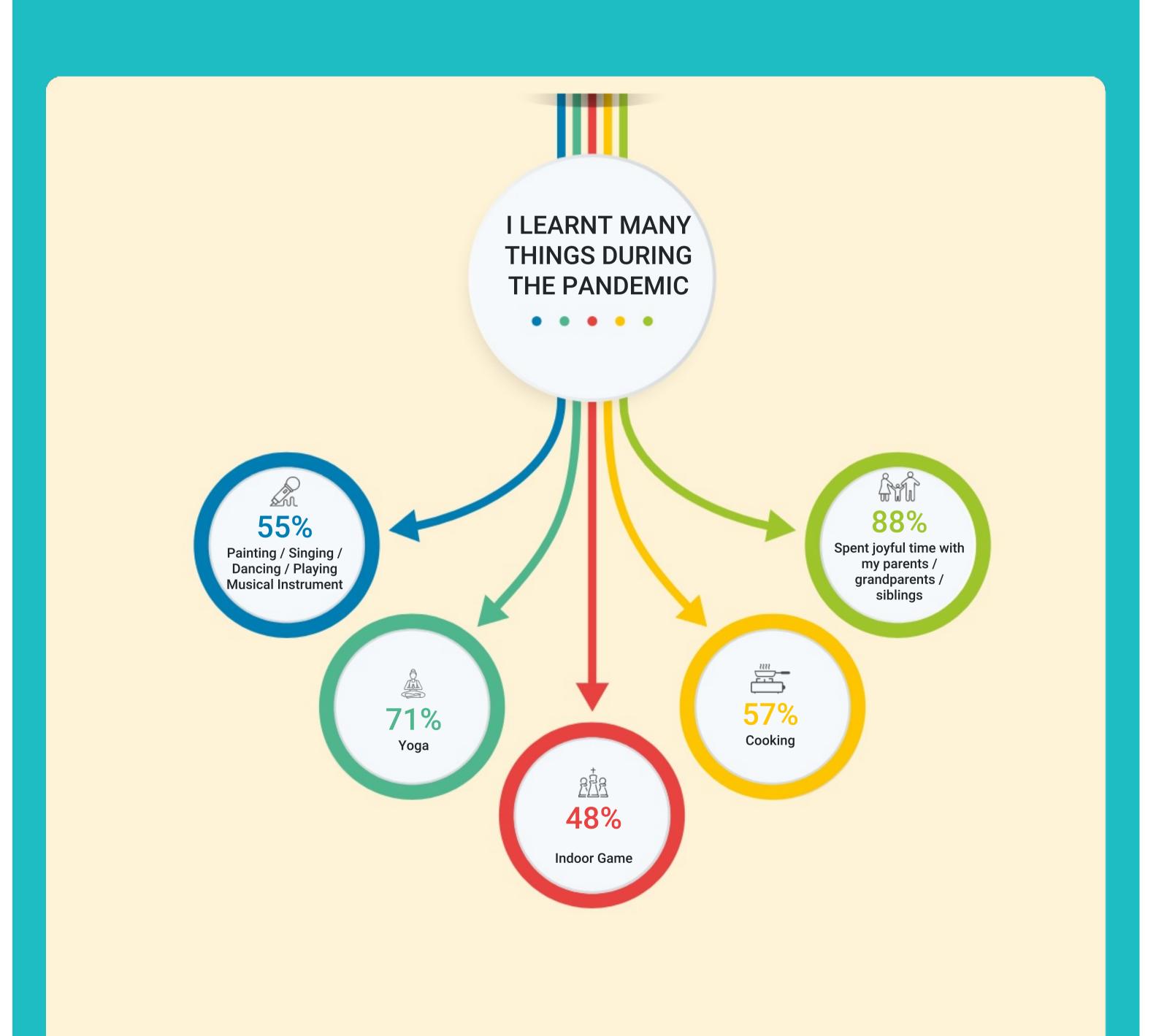
47%

of head teachers responded that schools have adequate library resources

95%

of head teachers responded that schools participate in sports activities

NAS 2021 RESULTS FOR Class 10

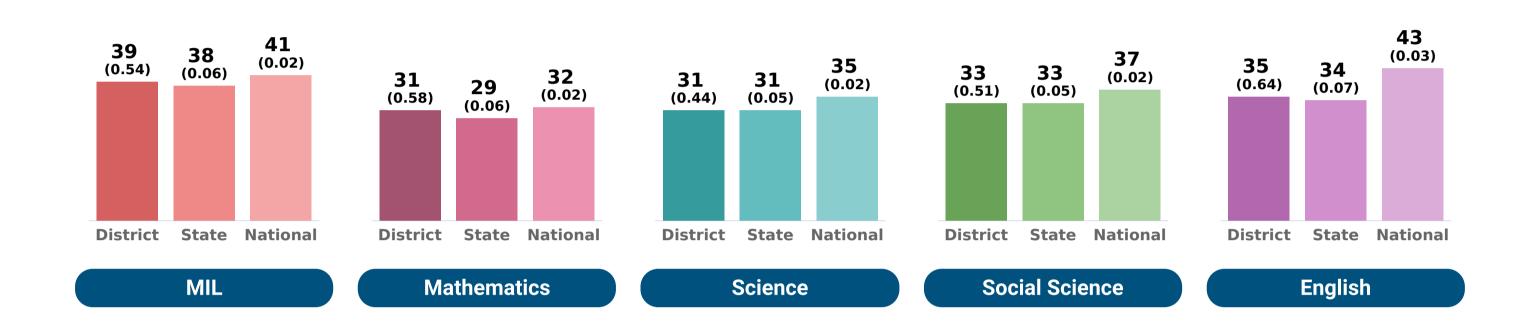


Total Participation



District Performance of Students vis-a-vis State and National

in percent correct (standard error)



Percentage of Students by Performance Level

	Below basic	Basic	Proficient	Advanced
MIL	59	33	7	0
Mathematics	36	47	11	6
Science	84	12	3	0
Social Science	75	16	7	3
English	34	23	36	7

Below Basic

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.

Basic

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.

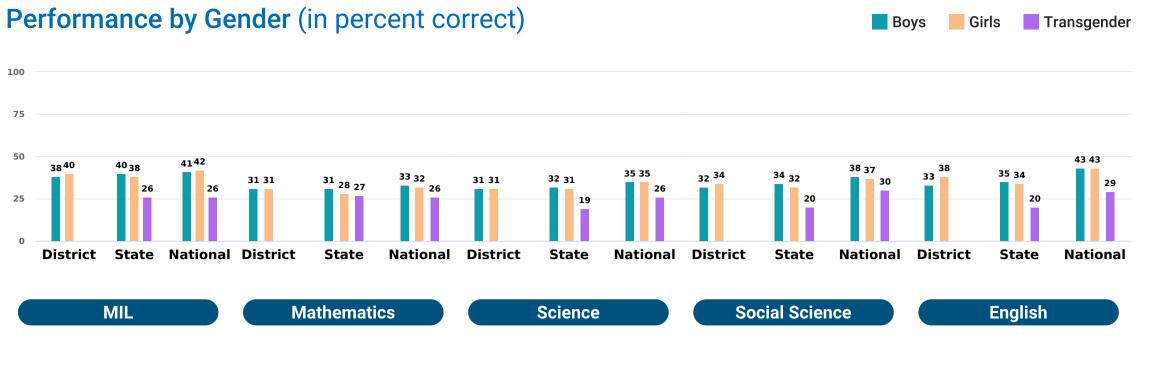
Proficient

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.

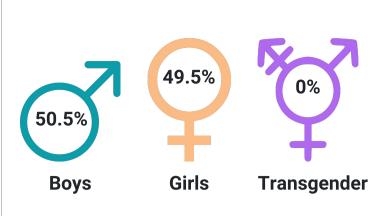
Advanced

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.

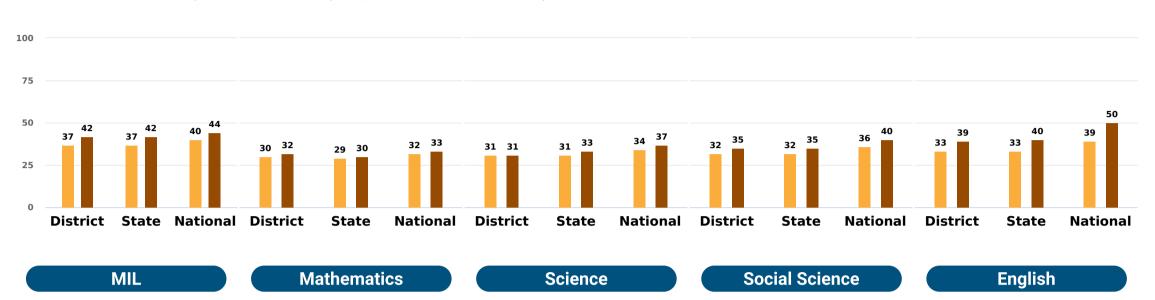
^{*} MIL - Modern Indian Language



Participation by Gender

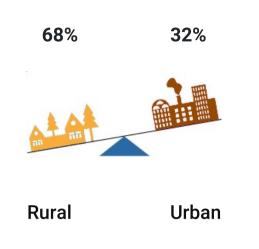




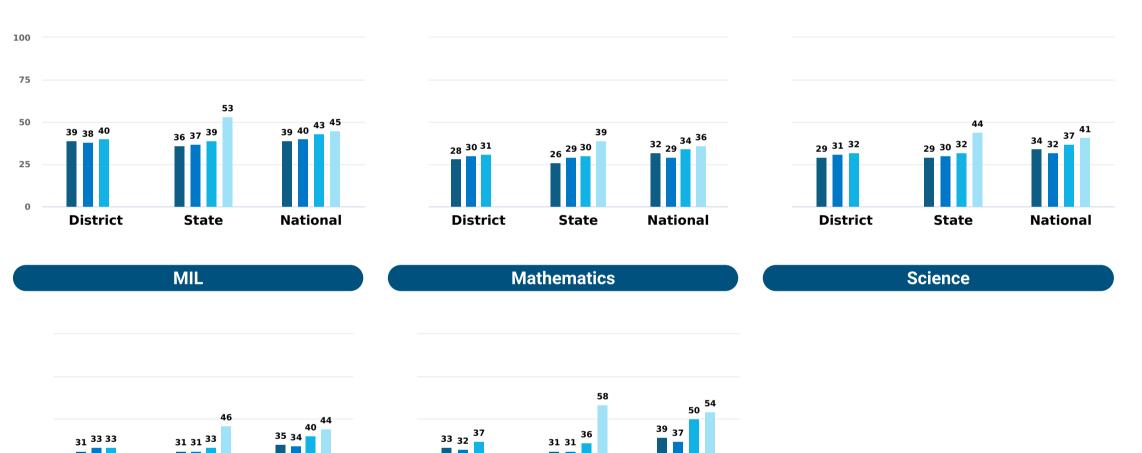


Participation by Location

Urban



Performance by Management (in percent correct) ■ State Govt. ■ Govt. Aided ■ Private Recognized ■ Central Govt.



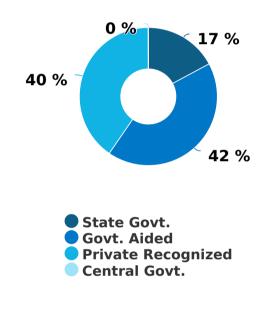
State

English

National

District

Participation by Management



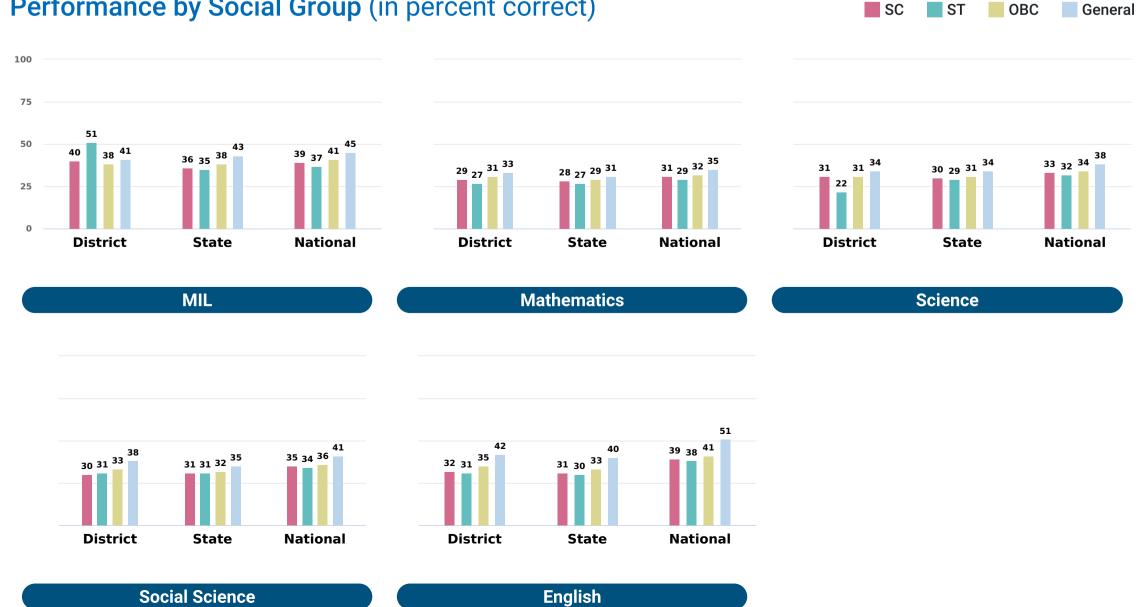
Performance by Social Group (in percent correct)

National

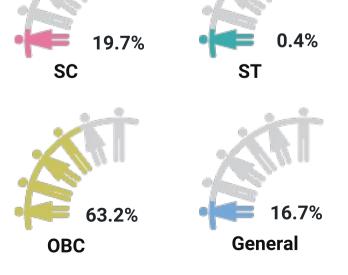
State

Social Science

District



Participation by Social Group



LO Code	Learning Outcomes for Class 10	District Average Performance	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।	39 🛕	38 🗘	41 🔔
	Mathematics			
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.	36 ▲	38 🗘	40 🔔
M1002	Develops a relationship between algebraic and graphical methods of finding the zeroes of a polynomial.	31 🗘	30 🚣	32 🔔
M1003	Finds solutions of pairs of linear equations in two variables using graphical and different algebraic methods.	29 🔔	26 🔔	30 🚣
M1004	Demonstrates strategies of finding roots and determining the nature of roots of a quadratic equation.	36 ▲	34 🚣	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.	33 🛕	30 🚣	37 🔔
M1006	Establishes properties for similarity of two triangles logically using different geometric criteria established earlier such as, Basic Proportionality Theorem, etc.	29 🛕	29 🔔	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.	29 🔔	26 🔔	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.	36 ▲	32 🛕	33 🛕
M1009	Derives proofs of theorems related to the tangents of circles.	34 🚣	33 🔔	36 🔔
M1010	Examines the steps of geometrical constructions and reason out each step	18 🚣	19 🚣	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.	36 🗘	34 🗘	35 🛕
M1012	Calculates mean, median and mode for different sets of data related with real life contexts.	25 🔔	25 🔔	27 🔔
	Science			
SCI1001	Differentiates materials, objects, organisms, phenomena, and processes, based on, properties and characteristics.	32 🛕	34 🗘	37 🗘
SCI1002	Classifies materials, objects, organisms, phenomena, and processes, based on properties and characteristics.	32 🛕	34 🗘	36 🛕
SCI1003	Relates processes and phenomena with causes and effects	34 🗘	33 🛕	40 🚣
SCI1004	Explains processes and phenomena.	32 🔔	31 🔔	36 🔔
SCI1005	Analyses and interprets data, graphs, and figures	32 🛕	29 🔔	30 🛕
SCI1006	Calculates using the data given	27 🔔	27 🔔	28 🔔
SCI1007	Uses scientific conventions to represent units of various quantities, symbols, formulae, and equations.	35 🔔	35 🔔	38 🛕
SCI1008	Applies learning to hypothetical situations	27 🔔	29 🔔	33 🛕
SCI1009	Applies scientific concepts in daily life and solving problems	34 🗘	32 🗘	36 🗘
SCI1010	Derives formulae, equations, and laws	27 🔔	25 🔔	28 🔔

! Average performance less than 50 percent

LO Code	Learning Outcomes for Class 10	District Average Performance	State Average Performance	National Average Performance
	Social Science			
SST1001	Recognises and retrieves facts, figures, and narrate processes.	29 🔔	30 🔔	34 🔔
SST1002	Classifies and compares events, facts, data, and figures.	33 🛕	30 🗘	37 🔔
SST1003	Explains cause and effect relationship between phenomena, events, and their occurrence.	33 🛕	33 🗘	36 🔔
SST1004	Analyses and evaluates information.	33 🛕	31 🔔	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 ▲	37 🗘	42 🚹
SST1006	Draws interlinkages within Social Science.	22 🗘	25 🔔	27 🔔
SST1007	Identifies assumptions, biases, prejudices, or stereotypes about various aspects.	45 🔔	45 🔔	51
SST1008	Demonstrates inquisitiveness, enquiry.	41 🚣	39 🛕	45 🔔
SST1009	Constructs views, arguments, and ideas on the basis of collected or given information.	27 🔔	23 🔔	28 🔔
SST1010	Extrapolates and predicts events and phenomena.	26 🔔	28 🔔	35 🔔
SST1011	Illustrates decision making/problem solving skills.	38 🚣	38 🔔	45 🔔
SST1012	Shows sensitivity and appreciation skills.	32 🔔	31 🔔	37 🔔
	English			
E1007	Reads, comprehends and responds to complex texts independently.	35 🛕	34 🔔	43 🔔

Average performance less than 50 percent

What students have to say

99%

Students like to go to school

89%

Students use same language at home as medium of instruction in the class

98%

Students could understand, what teachers teach in the class

45%

Students go out and play during games period

74%

Students have access to digital devices in the school

79%

Students of class 10 have laboratory facility in school

54%

Students have internet connectivity at home

85%

Student get parental support for their educational achievement

What teachers have to say

41%

Teachers have adequate instructional material and supplies

77%

Teachers have adequate work space

43%

Teachers say that they are overloaded with the work

16%

Teachers have responded that the school building needs significant repair

11%

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

9%

Teachers have responded that there are inadequate toilet facilities in school

27%

Teachers participated in professional development program

89%

Teachers have responded that the parents take interest in school activities

100%

Teachers know the protocol for COVID symptoms reporting

99%

Measures to be taken for wellbeing of children and school staff

100%

Teachers are aware of school reopening guidelines

What head teachers have to say

78%

of head teachers responded that schools have adequate qualified teaching staff

52%

of head teachers responded that schools have adequate supporting staff

37%

of head teachers responded that schools have adequate audio visual resources

47%

of head teachers responded that schools have adequate library resources

95%

of head teachers responded that schools participate in sports activities

NAS 2021 Team

National Ste	ering Committee (NAS-2021)
Chairman	Dr. Vineet Joshi, IAS, Chairman, CBSE w.e.f. 15.02.2022
Cilalillali	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
Member	Prof. (Dr.) Sridhar Srivastava, Director, NCERT upto 13.02.2022
Member	Shri P K Banerjee, DDG (Stats) Ministry of Education upto 07.09.2021
Member	Shri V. Hedge, DDG (Stats) Ministry of Education w.e.f. 10.12.2021
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Member	Prof. (Dr.) Indrani Bhaduri, Head, ESD & Head NAS Cell, NCERT
Member	Shri J. P. Pandey, Director, DoSEL, Ministry of Education
Member	Shri Manoj Kumar Srivastava, Director (PE) & Head NAS Cell, CBSE
Member	Shri Saba Akhtar, Scientist-F, NIC
Member	Shri Ramachandra Rao Begur, Education Specialist, UNICEF

Sub-Committee - Data Analysis, Reporting and Dissemination		
Chairman	Prof. (Dr.) Dinesh Prasad Saklani, Director, NCERT w.e.f. 14.02.2022	
Chairman	Prof. (Dr.) Sridhar Srivastava, Director, NCERT upto 13.02.2022	
Member	Prof. (Dr.) Sridhar Srivastava, Joint Director	
Member Secertary	Prof. (Dr.) Indrani Bhaduri, Head, ESD & Head NAS Cell, NCERT	
Member	Shri J.P. Pandey, Director, DoSEL, Min. of Education	
Mombor	Shri P K Banerjee, DDG (Stats) Ministry of Education upto 09.12.2021	
Member	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

National Pro	ject Coordinators
NCERT	CBSE
Prof. (Dr.) Indrani Bhaduri, Head, ESD & Head NAS Cell, NCERT	Shri Manoj Kumar Srivastava, Director (PE) & Head NAS Cell, CBSE

	Project Team	
	Ministry of Education	
Sh. Dalbir Singh, Under Secretary	Sh. Pratham Sagar (ASO)	Sh. Atiqur Rahman, YP
	Central Board of Secondary Education (CBSF	≣)
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Sh. Sourav Chopra	Ms. Pooja Nagpal	Sh. Aditya Sharma





Key Organizations











