



NAS 2017

NATIONAL ACHIEVEMENT SURVEY

Class : 3, 5 and 8

ASSAM

State Learning Report

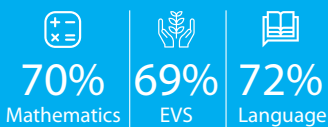


The National Achievement Survey (NAS) was conducted throughout the country on November 13, 2017 for Classes 3, 5 and 8 in government and government aided schools. The survey tools used multiple test booklets with 45 questions in Classes III and V and 60 questions in Class VIII in Mathematics, Language, Sciences and Social Sciences. The competency based test questions developed, reflected the Learning Outcomes developed by the NCERT which were recently incorporated in the RTE Act by the Government of India. Along with the test items, questionnaires pertaining to students, teachers and schools were also used.

The learning levels of 2.2 million students from 1,10,000 schools across 701 districts in all 36 States/UTs were assessed. The findings of the survey, will help guide education policy, planning and implementation at national, state, district and classroom levels for improving learning levels of children and bringing about qualitative improvements.

HIGHLIGHTS

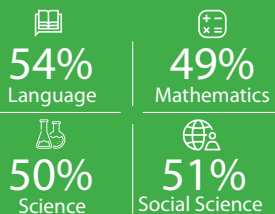
In Class 3, on an average, the correct responses to the subjects were as follows:



In Class 5, on an average, the correct responses to the subjects were as follows:



In Class 8, on an average, the correct responses to the subjects were as follows:



93%

Children could understand what the teacher says in the classroom.



43%

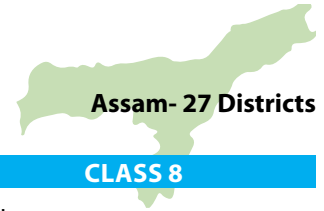
of the school buildings need significant repair.

Highest Performing Learning Outcomes

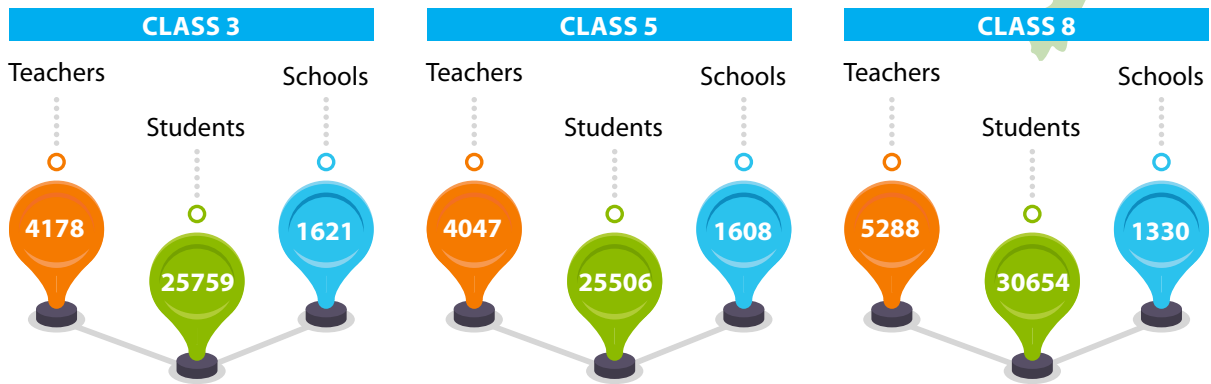
- **E314:** Voices opinion on good/bad touch, stereotypes for tasks/play/food in family w.r.t gender, misuse/wastage of food and water in family and school (75)
- **M302:** Compares numbers up to 999 based on their place values (76)
- **M317:** Reads the time correctly to the hour using a clock/watch (78)
- **M319:** Records data using tally marks, represents pictorially and draws conclusions (81)
- **M309:** Identifies and makes 2D-shapes by paper folding, paper cutting on the dot grid, using straight lines etc (82)

Lowest Performing Learning Outcomes

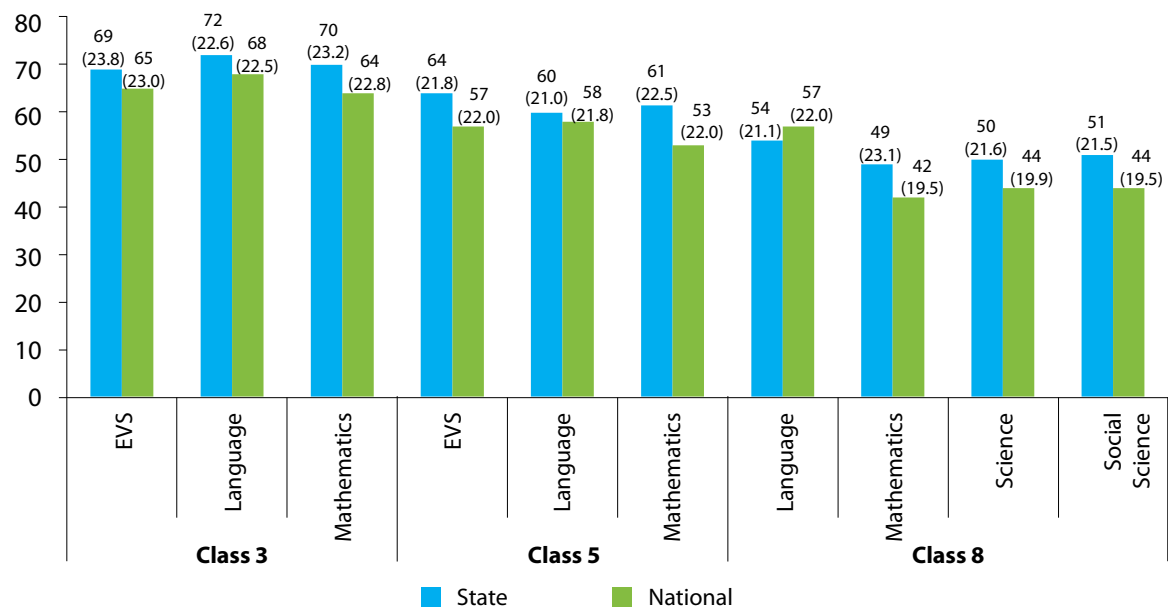
- **E505:** Establishes linkages among terrain, climate, resources (food, water, shelter, livelihood) and cultural life. (e.g. life in distant/difficult areas like hot/cold deserts) (22)
- **SST610:** Locates important historical sites, places on an outline map of India (24)
- **SST625:** Describes the functioning of rural and urban local government bodies in sectors like health and education (27)
- **M818:** Finds surface area and volume of cuboidal and cylindrical object (30)
- **SST805:** Locates distribution of important minerals e.g. coal and mineral oil on the world map (32)



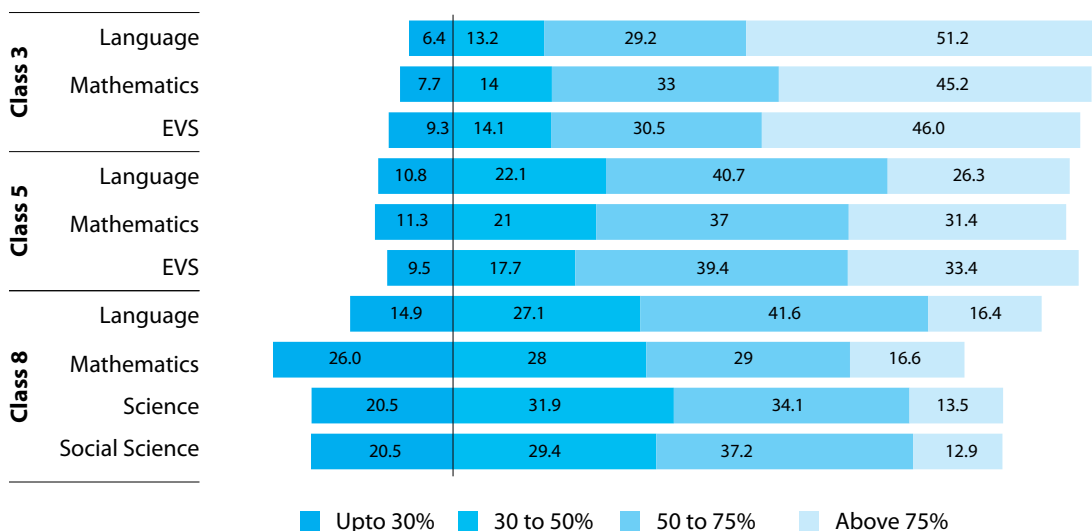
Participation



Average Achievement by Classes and Subjects



Distribution of Students Achievement by Classes and Subjects



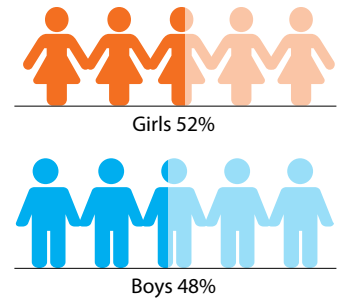
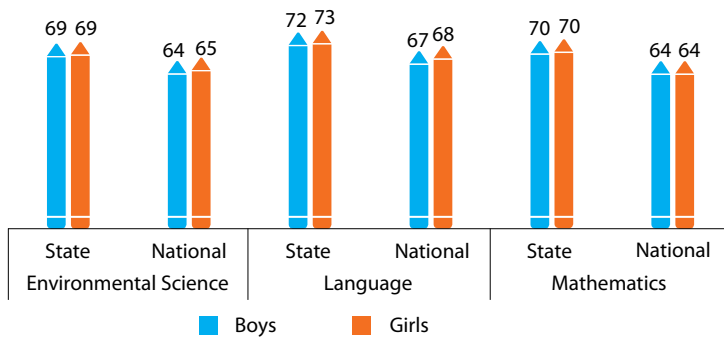
E.g. In Class 3 language, percentage of students achieving upto 30% is 6.4, between 30%-50% is 13.2, between 50%-75% is 29.2 and above 75% is 51.2.

Class 3 State Results by Student Groups

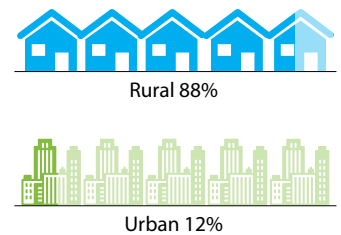
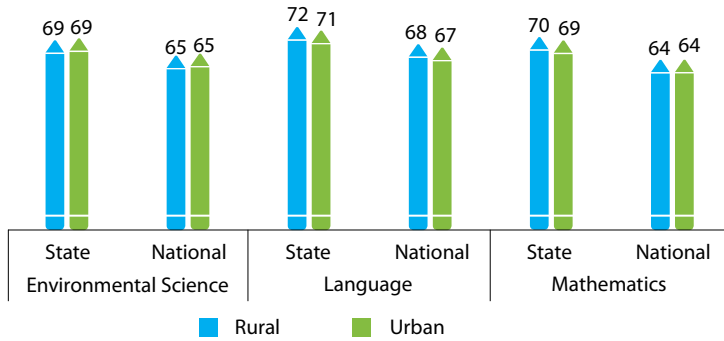
PERFORMANCE

PARTICIPATION

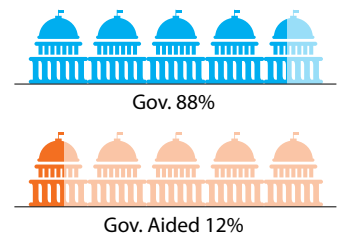
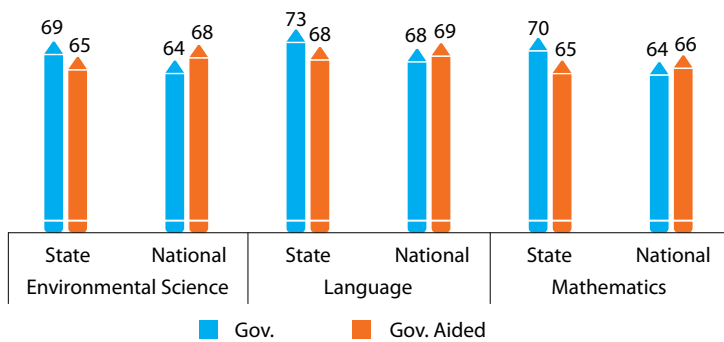
By Gender



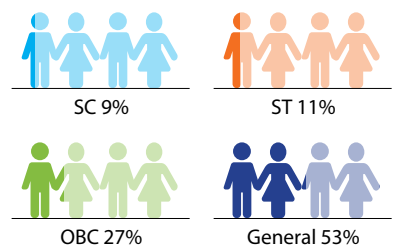
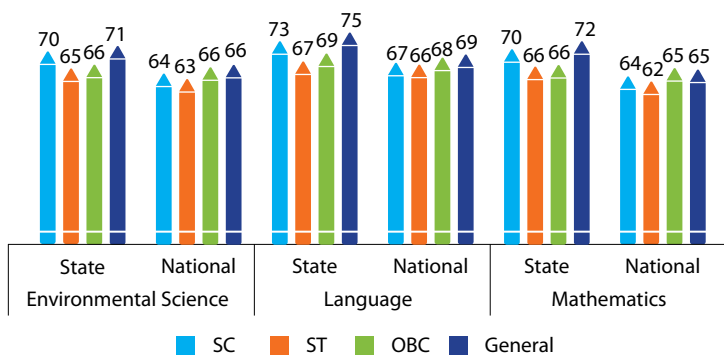
By School Location



By School Management



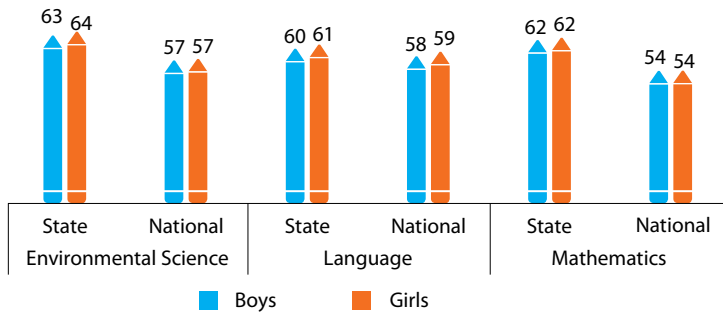
By Social Groups



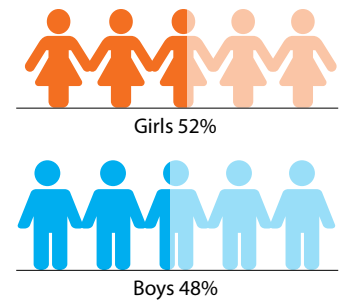
Class 5 State Results by Student Groups

PERFORMANCE

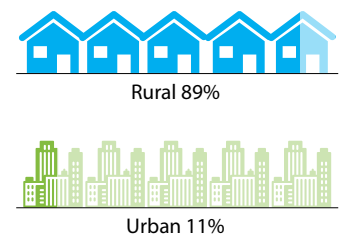
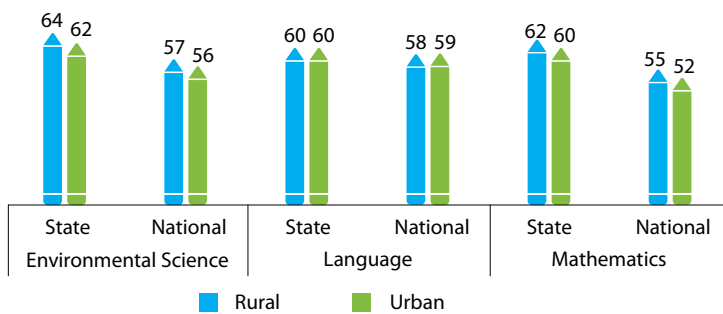
By Gender



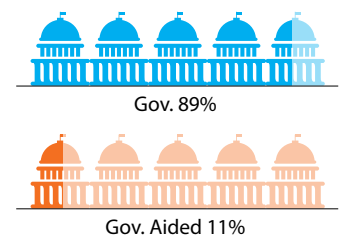
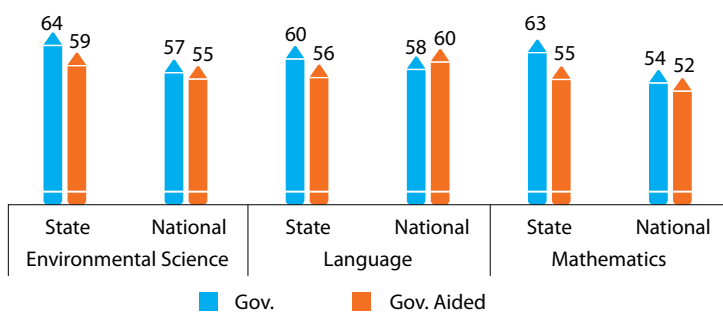
PARTICIPATION



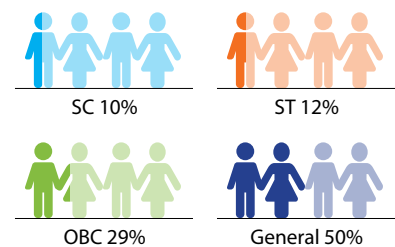
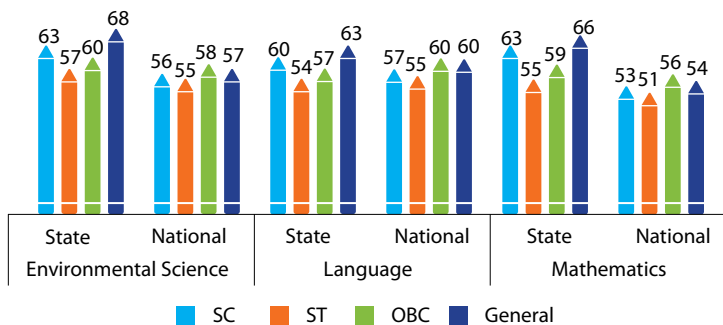
By School Location



By School Management



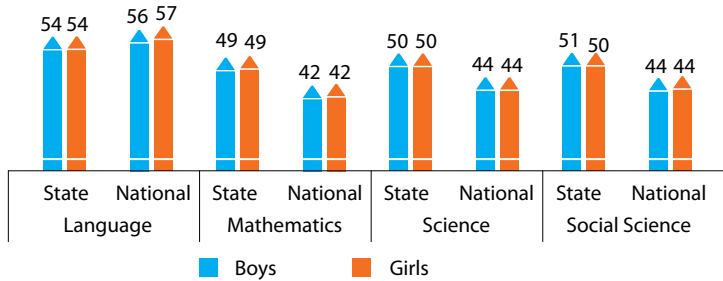
By Social Groups



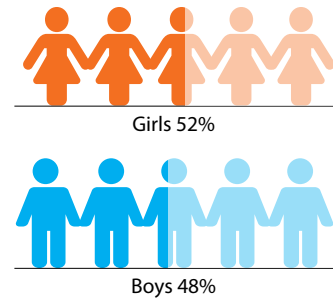
Class 8 State Results by Student Groups

PERFORMANCE

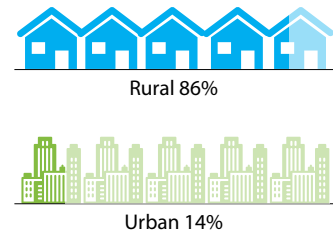
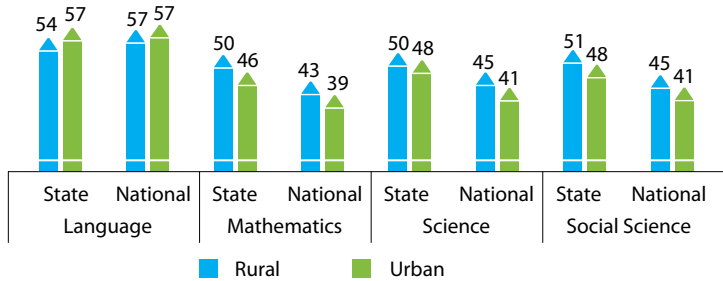
By Gender



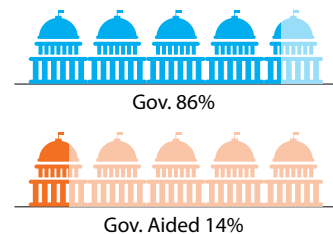
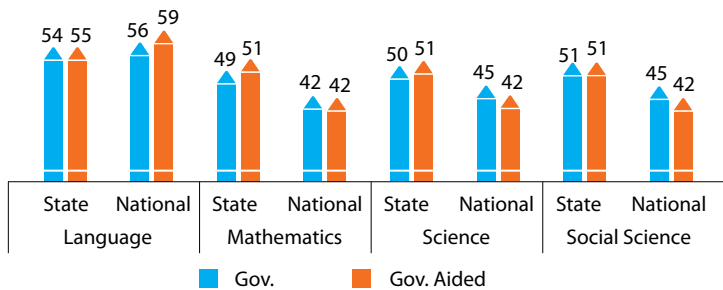
PARTICIPATION



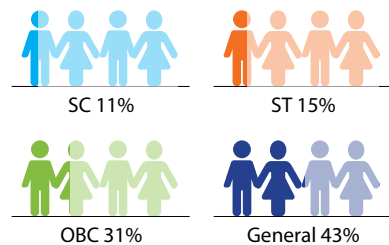
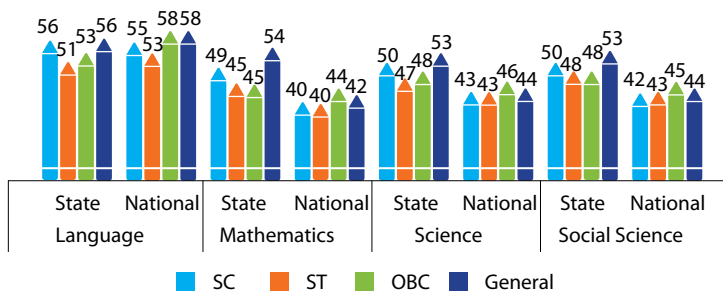
By School Location



By School Management



By Social Groups



What children say about schools?



97% children in Class 3 and **98%** children in Class 5 and Class 8 like to come to school.



21% students in Class 3, **19%** in Class 5 and **24%** students in Class 8 find it difficult to travel to school.

89% children in Class 3, **93%** in Class 5 and **92%** children in Class 8 could understand what the teachers say in the classroom.







For **43%** students in Class 3, **44%** in Class 5 and **46%** students in Class 8, the language used at home and by the teachers is the same.




82% students in Class 3 and Class 5 and **74%** in Class 8 go out and play during the games period.


What teachers responded?


 **51%** teachers in Class 3,
 **52%** in Class 5 and
 **75%** in Class 8 are teaching the same subjects they have pursued during their higher studies.



50% teachers in the state fully understand the curricular goals.



21%
teachers responded that there is lack of adequate toilet facilities.



27%
teachers responded that there is lack of drinking water facilities.



43%
teachers responded that the school buildings needs significant repair.


49%
teachers responded that there is lack of electricity.


25%
Teachers in the state opined that they are overloaded with work.


48%
Teachers in the state are highly satisfied with their Job.


82%
Teachers in the state have adequate instructional material and supplies.


72%
Teachers in the state have adequate work space.

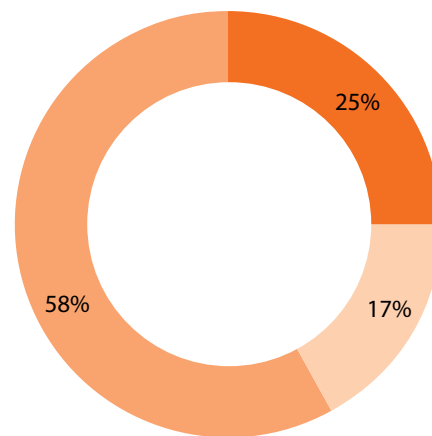
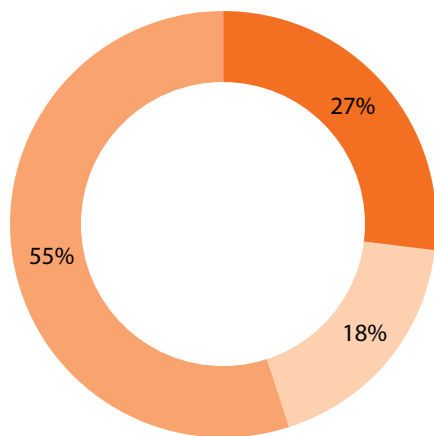
How do teachers assess children in the classroom?

	Never (in %)	For some lessons (in %)	Almost every lesson (in %)
Oral Tests	3	31	66
Written Tests	1	21	78
Multiple choice type	5	51	44
Observation	3	31	66
Home assignments	2	21	78
Student self assessment	6	43	51
Project work	14	66	20
Peer assessment	9	64	27
Portfolio	23	54	23

What teachers say about parent’s involvement?

Parental support for students’ Achievement

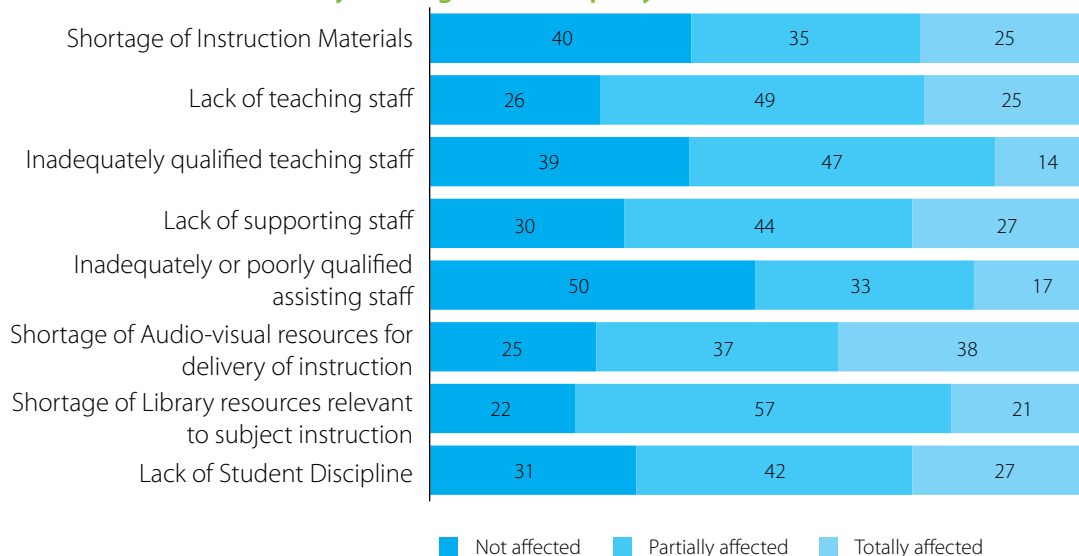
Parental involvement in school activities



Low Medium High

What the head teacher responded?

School activities affected by shortage or inadequacy



Not affected Partially affected Totally affected

E.g. 40% of the head teacher responded that the school activities were not effected by the shortage of instructional materials.

Average Performance of the District

Class 3

District Name	District Mean
Nagaon	83
Bongaigaon	78
Morigaon	77
Kokrajhar	75
Nalbari	75
Barpeta	73
Darrang	72
Sonitpur	72
Lakhimpur	71
Chirang	70
Cachar	70
Hailakandi	70
Udalguri	69
Kamrup-Rural	69
Baksa	69
Karbi Anglong	69
Dhubri	68
Goalpara	67
Kamrup-Metro	66
Karimganj	65
Dima Hasao	65
Sibsagar	64
Jorhat	64
Dibrugarh	64
Tinsukia	61
Golaghat	59
Dhemaji	58

Class 5

District Name	District Mean
Nagaon	72
Morigaon	71
Bongaigaon	71
Kokrajhar	69
Hailakandi	69
Barpeta	67
Dhubri	66
Lakhimpur	65
Cachar	64
Karimganj	64
Baksa	64
Darrang	63
Nalbari	62
Udalguri	61
Dima Hasao	61
Kamrup-Rural	61
Goalpara	60
Chirang	60
Kamrup-Metro	59
Sibsagar	59
Sonitpur	55
Tinsukia	54
Golaghat	53
Jorhat	53
Karbi Anglong	52
Dibrugarh	50
Dhemaji	47

Class 8

District Name	District Mean
Bongaigaon	57
Morigaon	57
Dima Hasao	57
Hailakandi	57
Kokrajhar	56
Cachar	55
Lakhimpur	55
Kamrup-Rural	55
Nagaon	54
Barpeta	54
Nalbari	54
Karimganj	53
Dhubri	52
Kamrup-Metro	51
Chirang	50
Dibrugarh	49
Baksa	49
Jorhat	48
Darrang	47
Udalguri	47
Tinsukia	47
Karbi Anglong	46
Sibsagar	46
Goalpara	45
Dhemaji	44
Golaghat	44
Sonitpur	40

Performance of the State in Learning Outcomes (LOs)

Annex-1

LO Code	Learning Outcome Class 3	Average Performance (in Percent)
EVS		
E302	Identifies simple features (e.g. movement, at places found/ kept, eating habits, sounds) of animals and birds in the immediate surroundings	60
E303	Identifies relationships with and among family members	72
E304	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 pro-cesses, etc.) at home/school/ neighbourhood	67
E305	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	71
E307	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)	72
E309	Identifies directions, location of objects/places in simple maps using signs/symbols/verbally	64
E310	Guesses properties, estimates quantities of materials/ activities in daily life and verifies using symbols/non-standard units	72
E311	Records observations, experiences, information on objects/ activities/places visited in different ways and predicts patterns etc	59
E313	Observes rules in games (local. indoor, outdoor)	42
E314	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	75
Language		
L304	Reads small texts with comprehension i.e., identifies main ideas, details, sequence and draws conclusions	72
L312	Reads printed scripts on the classroom walls: poems, posters, charts etc	69
Mathematics		
M301	Reads and writes numbers upto 999 using place value	68
M302	Compares numbers up to 999 based on their place value	76

LO Code	Learning Outcome Class 3	Average Performance (in Percent)
M303	Solves simple daily life problems using addition and subtraction of three digit numbers with and without regrouping	64
M304	Constructs and uses the multiplication facts (up till 10) in daily life situations	73
M305	Analyses and applies an appropriate number of operations in the situation/ context	66
M306	Explains the meaning of division facts by equal grouping/ sharing and finds it by repeated subtraction	70
M309	Identifies and makes 2D-shapes by paper folding, paper cutting on the dot grid, using straight lines etc	82
M311	Fills a given region leaving no gaps using a tile of a given shape	56
M312	Estimates and measures length and distance using standard units like centimetres or metres & identifies relationships	42
M317	Reads the time correctly to the hour using a clock/watch	78
M318	Extends patterns in simple shapes and numbers	59
M319	Records data using tally marks, represents pictorially and draws conclusions	81

LO Code	Learning Outcome Class 5	Average Performance (in Percent)
EVS		
E403	Identifies relationships with and among family members in extended family	70
E410	Records observations/experiences/information for objects, activities, phenomena, places visited in different ways and predicts patterns and activities/ phenomena	72
E501	Explains the super senses and unusual features (sight, smell, hear, sleep, sound, etc.) of animals and their responses to light, sound, food etc	53
E503	Describes the interdependence among animals, plants and humans	69
E504	Explains the role and functions of different institutions in daily life (Bank, Panchayat, Cooperatives, Police station, etc.)	73
E505	Establishes linkages among terrain, climate, resources (food, water, shelter, livelihood) and cultural life. (e.g. life in distant/ difficult areas like hot/cold deserts)	22
E506	Group objects, materials, activities for features/properties such as shape, taste, colour, texture, sound, traits etc.	58
E507	Traces the changes in practices, customs, techniques of past and present through coins, paintings, monuments, museums etc. and interacting with elders	53
E508	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	57
E509	Records observations/experiences/information in an organized manner (e.g. in tables/ sketches/ bar graphs/ pie charts) and predicts patterns in activities/phenomena to establish relation between cause and effect	63
E510	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	67
E512	Voice opinions on issues observed/experienced and relates practices /happenings to larger issues of society	67
E513	Suggests ways for hygiene, health, managing waste, disaster/ emergency situations and protecting/saving resources	69
Language		
L504	Reads and comprehends storybooks, news items/ headlines, advertisements etc	59
L508	Reads text with comprehension, locates details and sequence of events	61

LO Code	Learning Outcome Class 5	Average Performance (in Percent)
Mathematics		
M401	Applies operations of numbers in daily life situations	74
M412	Explores the area and perimeter of simple geometrical shapes (triangle, rectangle, square) in terms of given shape as a unit	60
M418	Calculates time intervals/duration of familiar daily life events by using forward or backward counting/addition and subtraction	72
M421	Represent the collected information in tables and bar graphs and draws inferences from these	69
M501	Reads and writes numbers bigger than 1000 being used in her/his surroundings	68
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	63
M505	Finds the number corresponding to part of a collection	69
M506	Identifies and forms equivalent fractions of a given fraction	51
M508	Converts fractions into decimals and vice versa	61
M509	Classifies angles into right angle, acute angle, obtuse angle and represents the same by drawing and tracing	55
M512	relates different commonly used larger and smaller units of length, weight and volume and converts larger units to smaller units and vice versa	63
M513	Estimates the volume of a solid body in known units	33
M514	Applies the four fundamental arithmetic operations in solving problems involving money, length, mass, capacity and time intervals	59
M515	Identifies the pattern in triangular number and square number	54
M516	Collects data related to various daily life situations, represents it in a tabular form and as bar graphs and interprets it	48

LO Code	Learning Outcome Class 8	Average Performance (in Percent)
Language		
L813	Read textual/non-textual materials with comprehension and identifies the details, characters, main idea and sequence of the ideas and events while reading	54
Mathematics		
M601	Solves problems involving large numbers by applying appropriate operations	49
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	50
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	50
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	47
M702	Interprets the division and multiplication of fractions	44
M705	Solves problems related to daily life situations involving rational numbers	47
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	44
M707	Adds/subtracts algebraic expressions	62
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	41
M717	Finds out approximate area of closed shapes by using unit square grid/ graph sheet	35
M719	Finds various representative values for simple data from her/ his daily life contexts like mean, median and mode	56
M721	Interprets data using bar graph such as consumption of electricity is more in winters than summer	47
M801	Generalises properties of addition, subtraction, multiplication and division of rational numbers through patterns	34
M802	Finds rational numbers between two given rational numbers	47
M803	Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11	54
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	52
M808	Use various algebraic identities in solving problems of daily life	60
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	36
M818	Finds surface area and volume of cuboidal and cylindrical object	30
M819	Draws and interprets bar charts and pie charts	56

LO Code	Learning Outcome Class 8	Average Performance (in Percent)
Science		
SCI703	Classifies materials and organisms based on properties/ characteristics	44
SCI704	Conducts simple investigation to seek answers to queries	40
SCI705	Relates processes and phenomenon with causes	44
SCI708	Measures and calculates e.g., temperature; pulse rate; speed of moving objects; time period of a simple pendulum, etc	55
SCI710	Plots and interprets graphs	45
SCI711	Constructs models using materials from surroundings and explains their working	41
SCI801	Differentiates materials, organism and processes	64
SCI804	Relates processes and phenomenon with causes	47
SCI805	Explains processes and phenomenon	42
SCI807	Measures angles of incidence and reflection, etc	57
SCI811	Applies learning of scientific concepts in day-to-day life	51
SCI813	Makes efforts to protect environment	66
Social Science		
SST605	Identifies latitudes and longitudes, e.g., poles, equator, tropics, States/UTs of India and other neighbouring countries on globe and the world map	50
SST610	locates important historical sites, places on an outline map of India	24
SST625	Describes the functioning of rural and urban local government bodies in sectors like health and education	27
SST703	Explains preventive actions to be undertaken in the event of disasters	73
SST704	Describes formation of landforms due to various factors	45
SST722	Explains the significance of equality in democracy	58
SST726	Describes the process of election to the legislative assembly	67
SST731	Explains the functioning of media with appropriate examples from newspapers	53
SST733	Differentiates between different kinds of markets	72
SST734	Traces how goods travel through various market places.	65
SST802	Describes major crops, types of farming and agricultural practices in her/his own area/state	60
SST805	Locates distribution of important minerals e.g. coal and mineral oil on the world map	32
SST807	Justifies judicious use of natural resources	49
SST809	Draws inter-relationship between types of farming and development in different regions of the world	37

LO Code	Learning Outcome Class 8	Average Performance (in Percent)
SST810	Distinguishes the modern period from the medieval and the ancient periods through the use of sources	58
SST815	Explains the origin, nature and spread of the revolt of 1857 and the lessons learned from it	63
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	35
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	58
SST823	Applies the knowledge of the Fundamental Rights to find out about their violation, protection and promotion in a given situation	34
SST827	Describes the process of making a law. (e.g. Domestic Violence Act, RTI Act, RTE Act)	34
SST831	Identifies the role of Government in providing public facilities such as water, sanitation, road, electricity etc., and recognizes their availability	45
SST833	Draws bar diagram to show population of different countries/ India/states	62

Core Team

MHRD

Ms Rina Ray, Secretary, School Education and Literacy (SE&L)

Shri Anil Swarup, Former Secretary, School Education & Literacy, SE&L, (till 30th June 2018)

Ms. Anita Karwal, Chairperson, CBSE and Chairperson, NCTE

Shri. Maneesh Garg, Joint Secretary, School Education and Literacy (SE&L)

Shri. Girish Chandrashekhhar Hosur, Director, School Education and Literacy (SE&L)

Ms. R. Savithri, DDG, Statistics

NCERT

Prof. Hrushikesh Senapaty, Director, NCERT

Prof. Indrani Bhaduri, Head, ESD and National Coordinator NAS

Prof. Sridhar Srivastava, Professor, ESD

Prof. Veer Pal Singh, Professor, ESD

Prof. A.D. Tewari, Professor, ESD

Dr. Pratima Kumari, Associate Professor

Dr. Sukhvinder, Assistant Professor

Dr. Vishal D. Pajankar, Assistant Professor

Dr. Satya Bhushan, Assistant Professor

Dr. Gulfam, Assistant Professor

Shri N.L. Srinivas, Sr. System Analyst

Md. Arif Sadiq, Programmer

Shri Vishwa Bandhu, Programmer

UN ORGANIZATION /EXTERNAL

Dr. Rudra Sahoo, Education Specialist, UNICEF

STATE FUNCTIONARIES

State Directorate of Education, SCERTs, SIEs, DIETs, Schools

Examinations

An examination is a formal test of an individual student's knowledge or proficiency in a subject on the curriculum. The results of examinations apply to individual students, enabling them to progress through school or apply for further education or employment. Taken together, examination results provide an overall snapshot of students' performance at the end of a year of a course of learning at school. Examination results do not indicate the reasons behind high or low achievement of students.

Achievement Surveys

Achievement Surveys provide a measure of learning across a representative sample of students. They allow classification of students at a specific grade level by their ability (what students know and can do) in different subjects on the curriculum. National Achievement Surveys provide a "Health Check" to the education system by analyzing achievement based on a range of background factors (School, home, teachers). They potentially enable policy makers and practitioners to address the challenges to enhance student learning.

For any clarification, Please contact:

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