

# NAS 2017

## NATIONAL ACHIEVEMENT SURVEY

Class : 3, 5 and 8

# LAKSHADWEEP

## State Learning Report

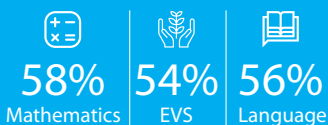


The National Achievement Survey (NAS) was conducted throughout the country on November 13, 2017 for Classes 3, 5 and 8 in government and government aided schools. The survey tools used multiple test booklets with 45 questions in Classes III and V and 60 questions in Class VIII in Mathematics, Language, 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.

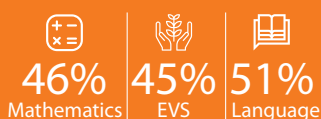
The learning levels of 2.2 million students from 1,10,000 schools across 701 districts in all 36 States/UTs were assessed. The findings of the survey, will help guide education policy, planning and implementation at national, state, district and classroom levels for improving learning levels of children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



77%

Children could understand what the teacher says in the classroom.



23%

of the school buildings need significant repair.

## Highest Performing Learning Outcomes

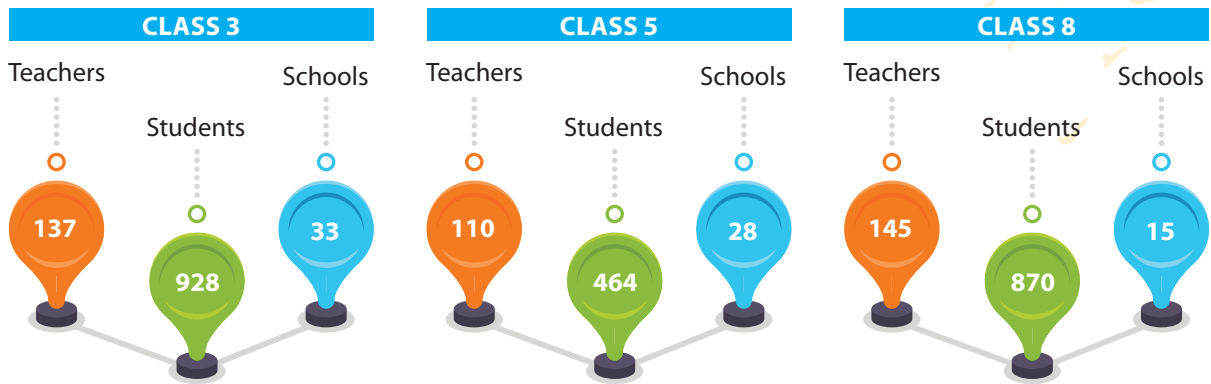
- **E314:** Voices opinion on good/bad touch, stereotypes for tasks/play/food in family w.r.t gender, misuse/wastage of food and water in family and school (66)
- **M302:** Compares numbers up to 999 based on their place values (72)
- **M319:** Records data using tally marks, represents pictorially and draws conclusions (76)
- **M516:** Collects data related to various daily life situations, represents it in tabular form and as bar graphs and interprets it (77)
- **M309:** Identifies and makes 2D-shapes by paper folding, paper cutting on the dot grid, using straight lines etc (87)

## Lowest Performing Learning Outcomes

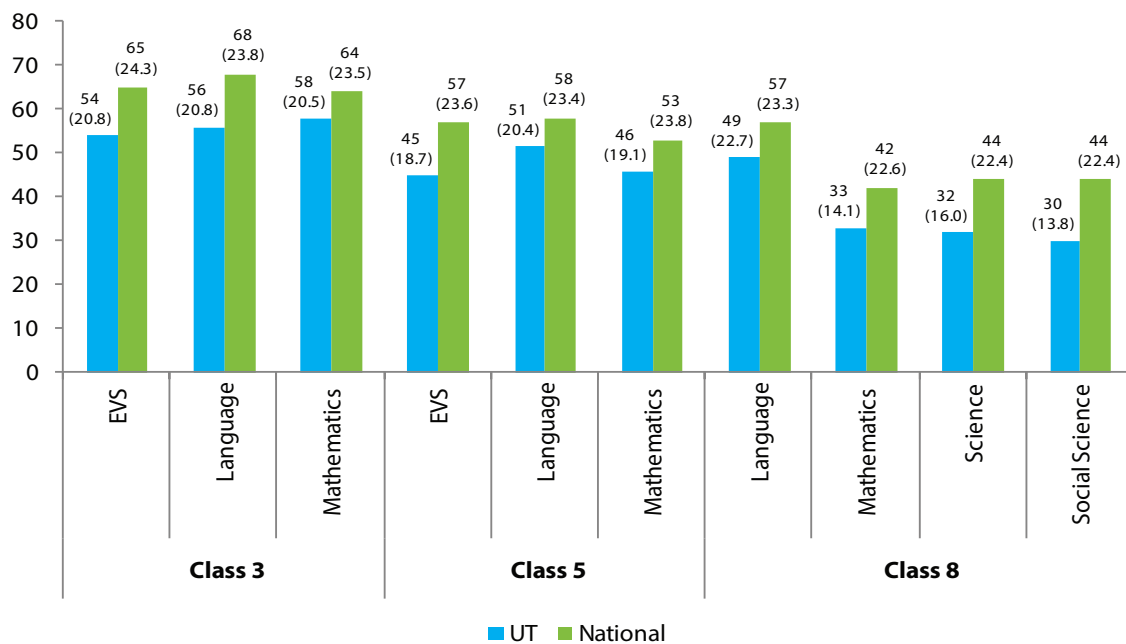
- **E505:** Establishes linkages among terrain, climate, resources (food, water, shelter, livelihood) and cultural life. (e.g. life in distant/difficult areas like hot/cold deserts) (15)
- **SST816:** Analyses the decline of pre-existing urban centers and handicraft industries and the development of new urban centers and industries in India during the colonial period (16)
- **M706:** Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (16)
- **SST704:** Describes formation of landforms due to various factors (18)
- **M801:** Generalises properties of addition, subtraction, multiplication and division of rational numbers through patterns (20)

## Participation

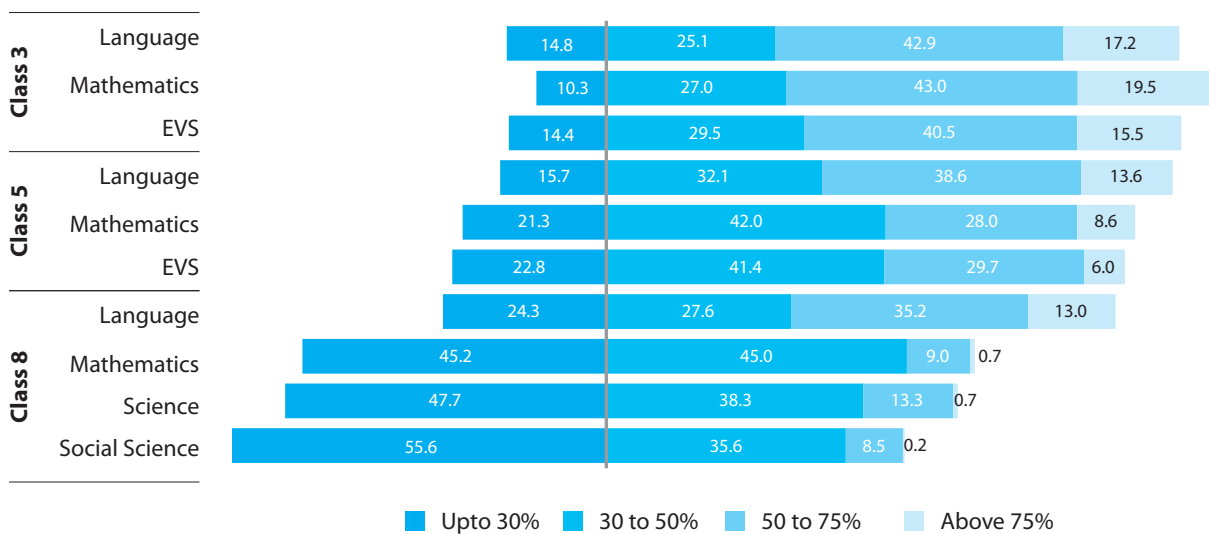
Lakshadweep - 1 District



## Average Achievement by Classes and Subjects



## Distribution of Students Achievement by Classes and Subjects

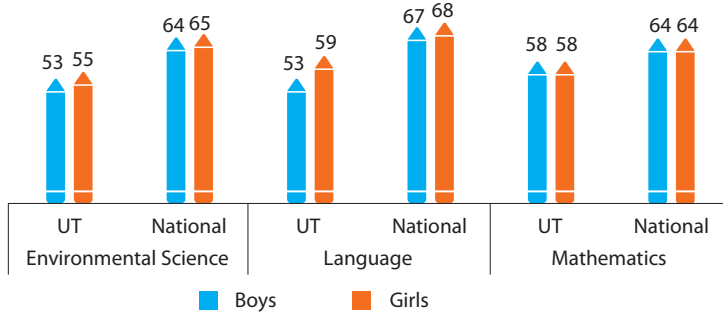


E.g. In Class 3 language, percentage of students achieving upto 30% is 14.8, between 30%-50% is 25.1, between 50%-75% is 42.9 and above 75% is 17.2.

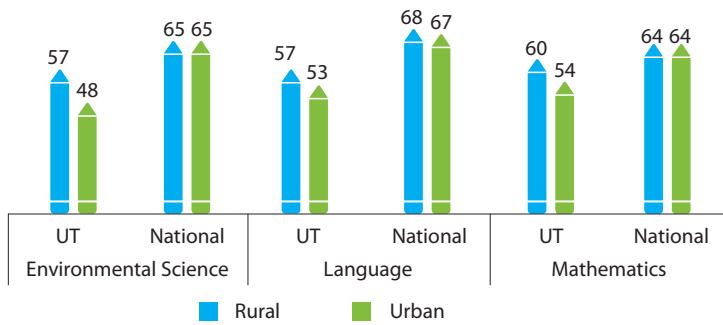
# Class 3 State Results by Student Groups

## PERFORMANCE

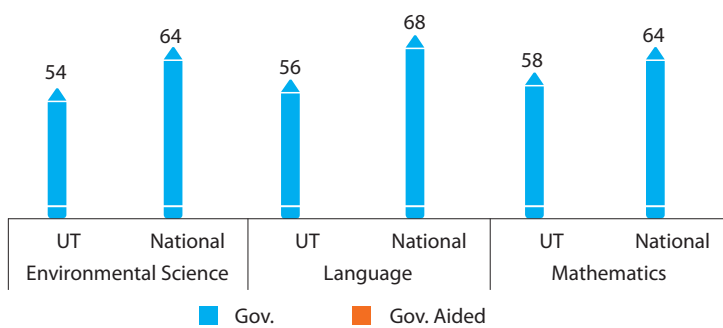
### By Gender



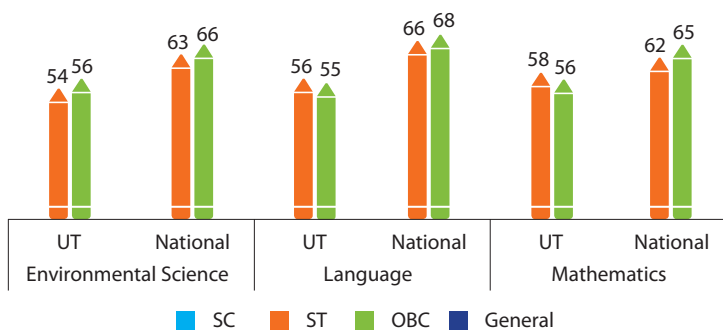
### By School Location



### By School Management



### By Social Groups



## PARTICIPATION



Girls 44%



Boys 56%



Rural 63%



Urban 37%



Gov. 100%



Gov. Aided 0%



SC 0%



ST 98%



OBC 2%

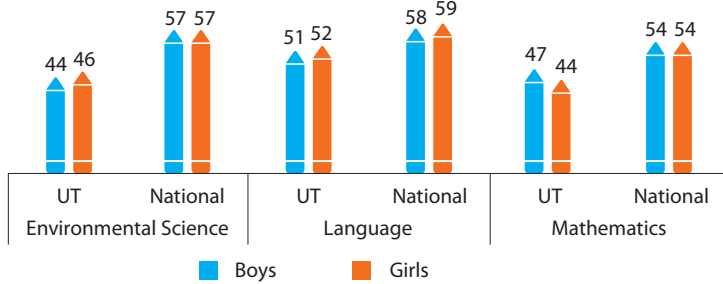


General 0%

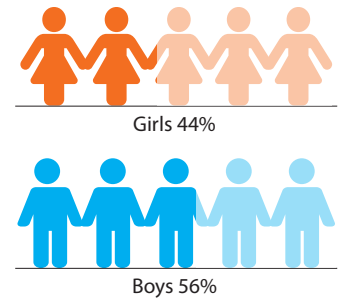
# Class 5 State Results by Student Groups

## PERFORMANCE

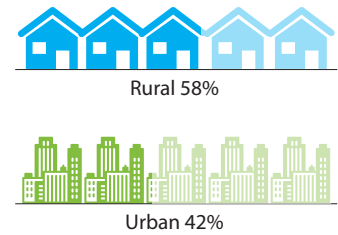
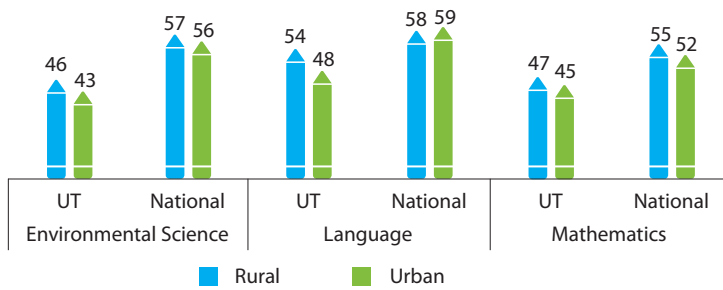
### By Gender



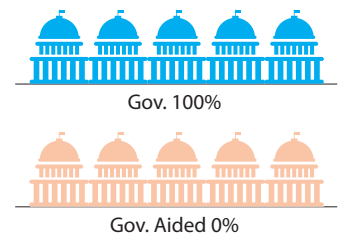
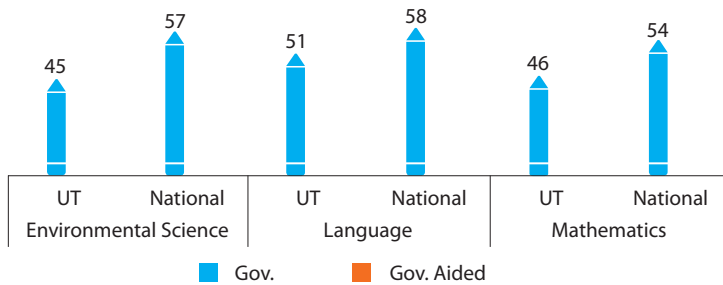
## PARTICIPATION



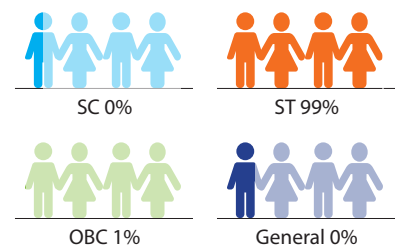
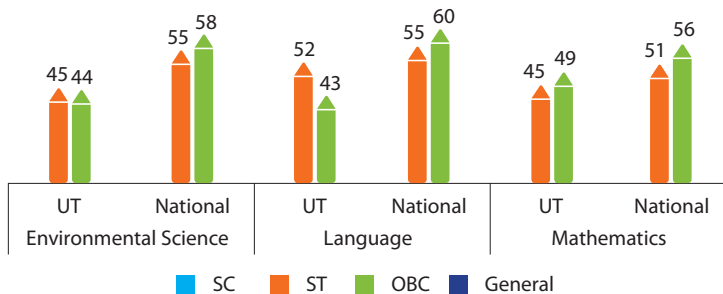
### By School Location



### By School Management



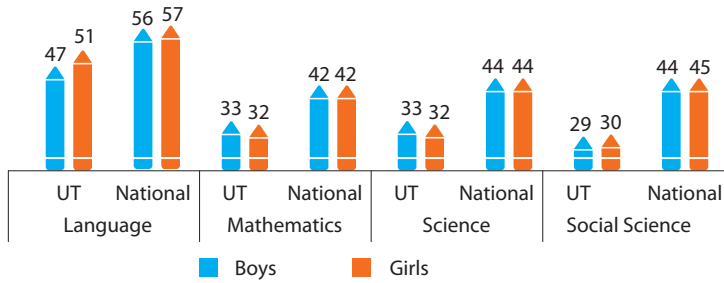
### By Social Groups



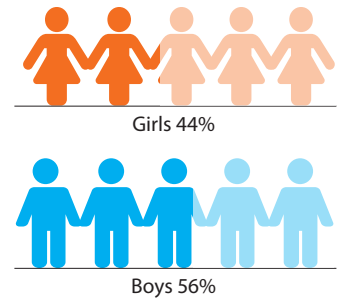
# Class 8 State Results by Student Groups

## PERFORMANCE

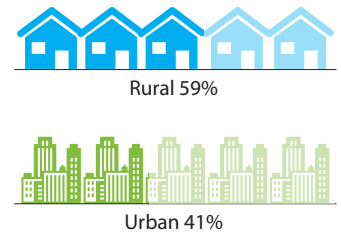
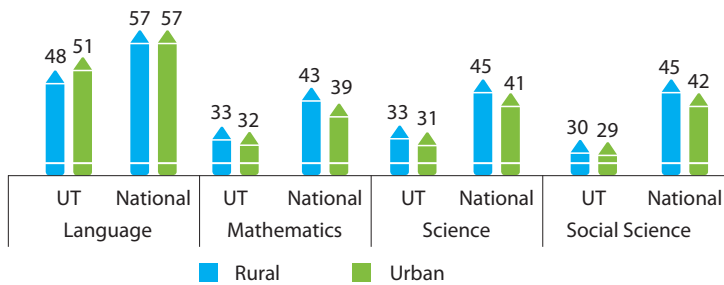
### By Gender



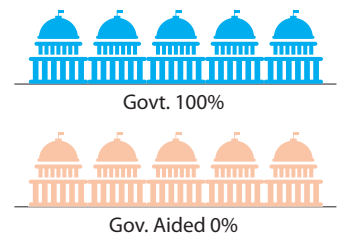
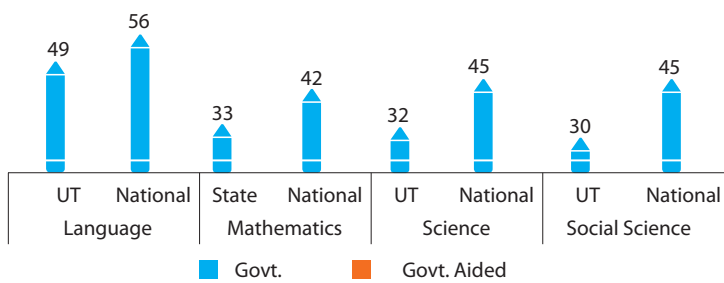
## PARTICIPATION



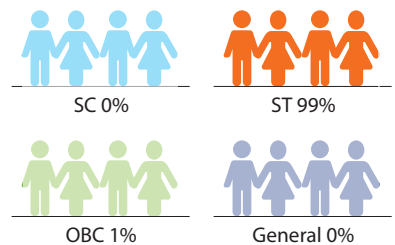
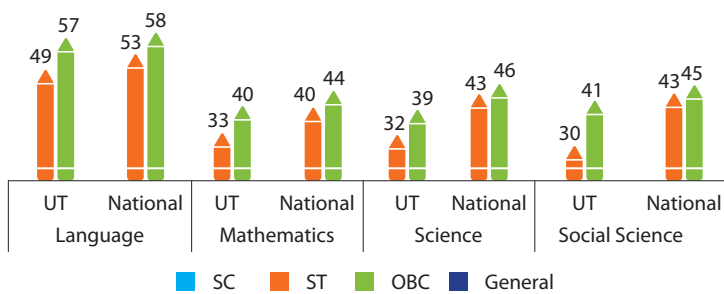
### By School Location



### By School Management



### By Social Groups



## What children say about schools?



**98%** children in Class 3, Class 5 and **99%** children in Class 8 like to come to school.



**10%** students across the grades find it difficult to travel to school.

**77%** children in Class 3, **72%** in Class 5 and **73%** children in Class 8 could understand what the teachers say in the classroom.







For **27%** students in Class 3, **19%** in Class 5 and **21%** students in Class 8, the language used at home and by the teachers is the same.











**93%** students in Class 3, **95%** students in Class 5 and **91%** in Class 8 go out and play during the games period.

## What teachers responded?

 **57%** teachers in Class 3,  
 **62%** in Class 5 and  
 **92%** in Class 8 are teaching the same subjects they have pursued during their higher studies.

  
**55%** teachers in the state fully understand the curricular goals.

 <b>12%</b> teachers responded that there is lack of adequate toilet facilities.	 <b>4%</b> teachers responded that there is lack of drinking water facilities.	 <b>23%</b> teachers responded that the school buildings needs significant repair.	 <b>5%</b> teachers responded that there is lack of electricity.
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 <b>3%</b> Teachers in the state opined that they are overloaded with work.	 <b>42%</b> Teachers in the state are highly satisfied with their job.
 <b>83%</b> Teachers in the state have adequate instructional material and supplies.	 <b>88%</b> Teachers in the state have adequate work space.

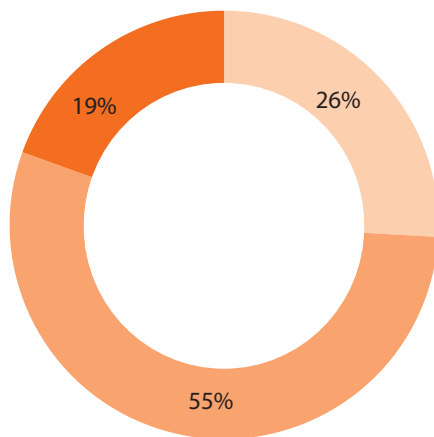


## How do teachers assess children in the classroom?

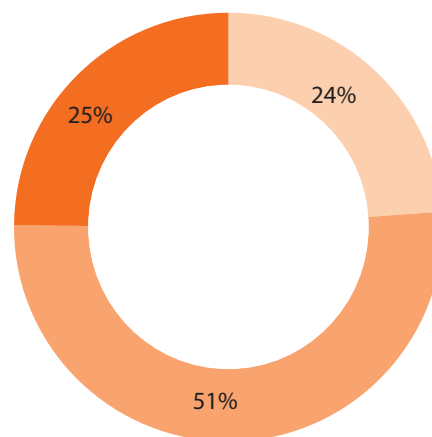
	Never (in %)	For some lessons (in %)	Almost every lesson (in %)
Oral Tests	2	33	65
Written Tests	0	22	78
Multiple choice type	1	36	64
Observation	0	41	58
Home assignments	1	42	57
Student self assessment	3	40	58
Project work	6	81	12
Peer assessment	4	54	42
Portfolio	3	33	64

## What teachers say about parent's involvement?

### Parental support for students' Achievement



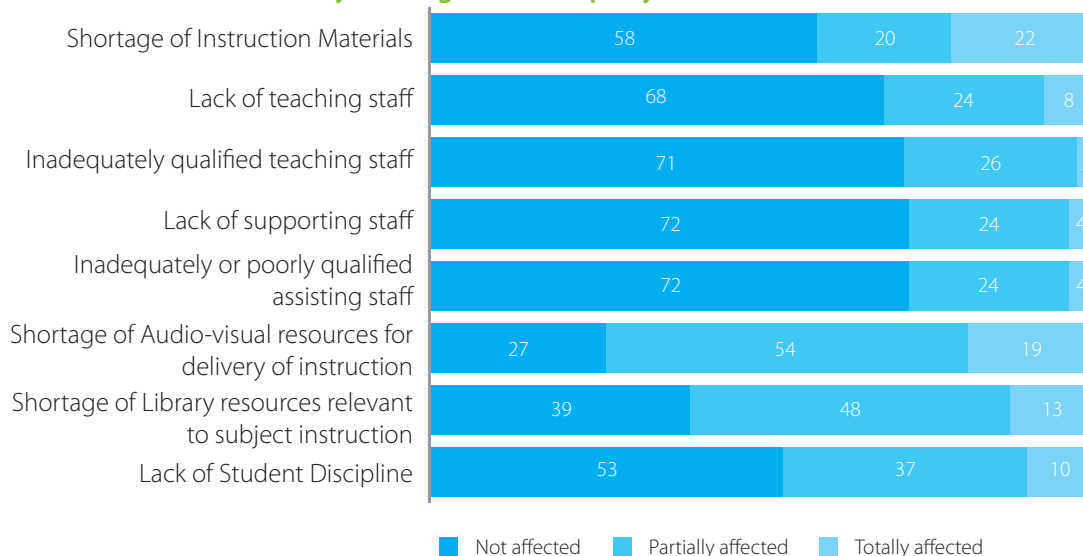
### Parental involvement in school activities



Low Medium High

## What the head teacher responded?

### School activities affected by shortage or inadequacy



Not affected Partially affected Totally affected

Eg. 58% of the head teacher responded that the school activities were not affected by the shortage of instructional materials.

## Average Performance of the District

### Class 3

District Name	District Mean
Lakshadweep	55

### Class 5

District Name	District Mean
Lakshadweep	47

### Class 8

District Name	District Mean
Lakshadweep	36

## Performance of the State in Learning Outcomes (LOs)

Annex-1

LO Code	Learning Outcome Class 3	Average Performance (in Percent)
<b>EVS</b>		
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	37
E304	Identifies objects, signs (vessels, stoves, transport, means of communication, transport, signboards etc.), places (types of houses/shelters, bus stand, petrol pump etc.) activities (work people do, cooking processes, etc.) at home/school/ neighbourhood	50
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	61
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)	64
E309	Identifies directions, location of objects/places in simple maps using signs/symbols/verbally	40
E310	Guesses properties, estimates quantities of materials/ activities in daily life and verifies using symbols/non-standard units	37
E311	Records observations, experiences, information on objects/ activities/places visited in different ways and predicts patterns etc	49
E313	Observes rules in games (local, indoor, outdoor)	39
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	66
<b>Language</b>		
L304	Reads small texts with comprehension i.e., identifies main ideas, details, sequence and draws conclusions	56
L312	Reads printed scripts on the classroom walls: poems, posters, charts etc	56
<b>Mathematics</b>		
M301	Reads and writes numbers upto 999 using place value	60
M302	Compares numbers up to 999 based on their place values	72

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	49
M304	Constructs and uses the multiplication facts (up till 10) in daily life situations	53
M305	Analyses and applies an appropriate number of operations in the situation/ context	53
M306	Explains the meaning of division facts by equal grouping/ sharing and finds it by repeated subtraction	42
M309	Identifies and makes 2D-shapes by paper folding, paper cutting on the dot grid, using straight lines etc.	87
M311	Fills a given region leaving no gaps using a tile of a given shape	55
M312	Estimates and measures length and distance using standard units like centimetres or metres & identifies relationships	23
M317	Reads the time correctly to the hour using a clock/watch	63
M318	Extends patterns in simple shapes and numbers	52
M319	Records data using tally marks, represents pictorially and draws conclusions	76

LO Code	Learning Outcome Class 5	Average Performance (in Percent)
<b>EVS</b>		
E403	Identifies relationship with and among family members in extended family	41
E410	Records observations/experiences/information for objects, activities, phenomena, places visited in different ways and predicts patterns and activities/ phenomena	43
E501	Explains the super senses and unusual features (sight, smell, hear, sleep, sound, etc.) of animals and their responses to light, sound, food etc	49
E503	Describes the interdependence among animals, plants and humans	43
E504	Explains the role and functions of different institutions in daily life (Bank, Panchayat, Cooperatives, Police station, etc.)	59
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)	15
E506	Group objects, materials, activities for features/properties such as shape, taste, colour, texture, sound, traits etc	26
E507	Traces the changes in practices, customs, techniques of past and present through coins, paintings, monuments, museums etc. and interacting with elders	50
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	37
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	46
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	50
E512	Voices opinions on issues observed/experienced and relates practices /happenings to larger issues of society	32
E513	Suggests ways for hygiene, health, managing waste, disaster/ emergency situations and protecting/saving resources	47
<b>Language</b>		
L504	Reads and comprehends independently storybooks, news items/ headlines, advertisements etc	53
L508	Reads text with comprehension, locates details and sequence of events	50

LO Code	Learning Outcome Class 5	Average Performance (in Percent)
<b>Mathematics</b>		
M401	Applies operations of numbers in daily life situations	39
M412	Explores the area and perimeter of simple geometrical shapes (triangle, rectangle, square) in terms of given shape as a unit	53
M418	Calculates time intervals/duration of familiar daily life events by using forward or backward counting/addition and subtraction	49
M421	Represent the collected information in tables and bar graphs and draws inferences from these	60
M501	Reads and writes numbers bigger than 1000 being used in her/his surroundings	47
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	41
M505	Finds the number corresponding to part of a collection	56
M506	Identifies and forms equivalent fractions of a given fraction	40
M508	Converts fractions into decimals and vice versa	50
M509	Classifies angles into right angle, acute angle, obtuse angle and represents the same by drawing and tracing	60
M512	Relates different commonly used larger and smaller units of length, weight and volume and converts larger units to smaller units and vice versa	42
M513	Estimates the volume of a solid body in known units	29
M514	Applies the four fundamental arithmetic operations in solving problems involving money, length, mass, capacity and time intervals	28
M515	Identifies the pattern in triangular number and square number	41
M516	Collects data related to various daily life situations, represents it in a tabular form and as bar graphs and interprets it	77

LO Code	Learning Outcome Class 8	Average Performance (in Percent)
<b>Language</b>		
L813	Read textual/non-textual materials with comprehension and identifies the details, characters, main idea and sequence of the ideas and events while reading	49
<b>Mathematics</b>		
M601	Solves problems involving large numbers by applying appropriate operations	22
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	22
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	31
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	28
M702	Interprets the division and multiplication of fractions	42
M705	Solves problems related to daily life situations involving rational numbers	33
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	16
M707	Adds/subtracts algebraic expressions	34
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	24
M717	Finds out approximate area of closed shapes by using unit square grid/ graph sheet	24
M719	Finds various representative values for simple data from her/ his daily life contexts like mean, median and mode	43
M721	Interprets data using bar graph such as consumption of electricity is more in winters than summer	28
M801	Generalises properties of addition, subtraction, multiplication and division of rational numbers through patterns	20
M802	Finds rational numbers between two given rational numbers	30
M803	Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11	35
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	24
M808	Use various algebraic identities in solving problems of daily life	36
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	33
M818	Finds surface area and volume of cuboidal and cylindrical object	30
M819	Draws and interprets bar charts and pie charts	35

LO Code	Learning Outcome Class 8	Average Performance (in Percent)
<b>Science</b>		
SCI703	Classifies materials and organisms based on properties/ characteristics	35
SCI704	Conducts simple investigation to seek answers to queries	25
SCI705	Relates processes and phenomenon with causes	32
SCI708	Measures and calculates e.g., temperature; pulse rate; speed of moving objects; time period of a simple pendulum, etc	25
SCI710	Plots and interprets graphs	27
SCI711	Constructs models using materials from surroundings and explains their working	21
SCI801	Differentiates materials, organism and processes	46
SCI804	Relates processes and phenomenon with causes	30
SCI805	Explains processes and phenomenon	30
SCI807	Measures angles of incidence and reflection, etc	31
SCI811	Applies learning of scientific concepts in day-to-day life	33
SCI813	Makes efforts to protect environment	42
<b>Social Science</b>		
SST605	Identifies latitudes and longitudes, e.g., poles, equator, tropics, States/UTs of India and other neighbouring countries on globe and the world map	39
SST610	Locates important historical sites, places on an outline map of India	27
SST625	Describes the functioning of rural and urban local government bodies in sectors like health and education	29
SST703	Explains preventive actions to be undertaken in the event of disasters	34
SST704	Describes formation of landforms due to various factors	18
SST722	Explains the significance of equality in democracy	26
SST726	Describes the process of election to the legislative assembly	30
SST731	Explains the functioning of media with appropriate examples from newspapers	34
SST733	Differentiates between different kinds of markets	38
SST734	Traces how goods travel through various market places	29
SST802	Describes major crops, types of farming and agricultural practices in her/his own area/state	33
SST805	Locates distribution of important minerals e.g. coal and mineral oil on the world map	39
SST807	Justifies judicious use of natural resources	40
SST809	Draws inter-relationship between types of farming and development in different regions of the world	33



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	31
SST815	Explains the origin, nature and spread of the revolt of 1857 and the lessons learned from it	22
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	16
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	22
SST823	Applies the knowledge of the Fundamental Rights to find out about their violation, protection and promotion in a given situation	23
SST827	Describes the process of making a law. (e.g. Domestic Violence Act, RTI Act, RTE Act)	37
SST831	Identifies the role of Government in providing public facilities such as water, sanitation, road, electricity etc., and recognizes their availability	22
SST833	Draws bar diagram to show population of different countries/ India/states	54

## Core Team

### MHRD

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

**Shri Anil Swarup**, Former Secretary, School Education & Literacy, SE&L, (till 30<sup>th</sup> 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.

