





NATIONAL ACHIEVEMENT SURVEY – CLASS X CYCLE 2 (2017-18)

STATE REPORT CARD

DAMAN & DIU

PARTICIPATION

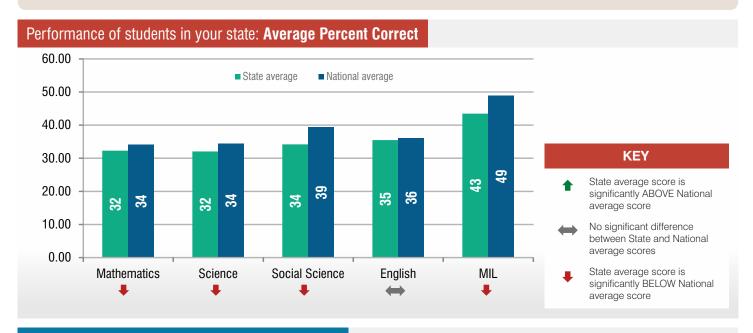
35

1082

Participating School Students

Participating School Response Rate

This State Report Card (SRC) of National Achievement Survey (NAS) Class X (Cycle 2) provides an overview of students' academic performance in the state. The NAS surveyed a representative sample of all school types in each state and measured students' performance in five subjects – Mathematics, Science, Social Science, English and Modern Indian Languages (MIL) — Reading Comprehension.



Distribution of students by range (percent correct)

SUBJECTS		0 – 35 (%)	36 – 50 (%)	51 – 75 (%)	76 – 100 (%)
Mathematics	State	70	21	8	1
watteriaucs	National	67	20	11	2
Science	State	68	31	1	
Science	National	62	27	10	1
Social Science	State	64	33	3	
Social Science	National	44	38	17	1
English	State	62	24	13	1
Eligiisii	National	61	21	15	3
Modern Indian Language (MIL)	State	33	38	28	1
Modern indian Language (MIL)	National	27	27	39	7



Performance by: **LOCATION**

Subjects	Rural (% Correct)	Urban (% Correct)	Significant Difference
Mathematics	32	32	\leftrightarrow
Science	33	31	\leftrightarrow
Social Science	34	34	\leftrightarrow
English	34	38	\leftrightarrow
MIL	43	45	\leftrightarrow

Performance by: **GENDER**

Subjects	Girls (% Correct)	Boys (% Correct)	Significant Difference
Mathematics	31	33	↔
Science	32	32	↔
Social Science	33	35	↔
English	35	36	↔
MIL	46	41	⇔

Performance by: **SOCIAL GROUP**

Subjects	SC (% Correct)	Others (% Correct)	Significant Difference	ST (% Correct)	Others (% Correct)	Significant Difference	OBC (% Correct)	Others (% Correct)	Significant Difference
Mathematics	33	34	\Leftrightarrow	28	34	•	32	34	\Leftrightarrow
Science	37	33	\Leftrightarrow	30	33	\Leftrightarrow	32	33	\Leftrightarrow
Social Science	33	35	\Leftrightarrow	34	35	\Leftrightarrow	34	35	\Leftrightarrow
English	36	41	\Leftrightarrow	30	41	•	33	41	+
MIL	39	44	\Leftrightarrow	44	44	\Leftrightarrow	44	44	\Leftrightarrow

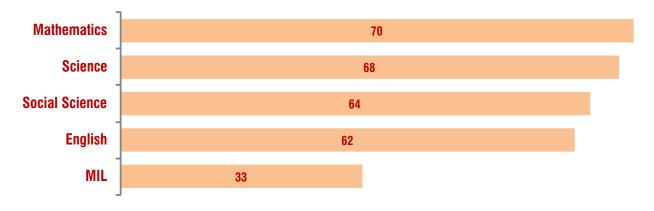
Student participation: **PERCENT**

State sample				
Group	Number of students	%		
Girls	538	50		
Boys	544	50		

State sample				
Group	Number of students	%		
Rural	679	63		
Urban	403	37		

Group	Number of students	%
SC	56	5
ST	150	14
OBC	517	48
Others	359	33

MAXIMUM INTERVENTION REQUIRED (% of Students score below 35%)



Skill-wise performance: (ITEM % CORRECT)

Subjects	Skill 1 (% correct)	Skill 2 (% correct)	Skill 3 (% correct)
Mathematics	34	32	30
Science	34	30	34
Social Science	34	35	34
English	47	35	34
MIL	48	50	52

Skill 1	Remembering: Recognizing or recalling knowledge from memory.			
Skill 2	Understanding: Constructing meaning from different types of functions be they written or graphic messages.			
Skill 3	Applying: Carrying out or using a procedure through executing, or implementing.			

Performance of Students: **CONTENT WISE**

Subjects	Content domain	State average (percent correct)	National average (percent correct)	Significant difference
	Mathematics (overall)	32	34	
	Algebra	34	35	\leftrightarrow
	Geometry	33	35	\leftrightarrow
	Mensuration	31	34	•
MATHEMATICS	Trigonometry	33	37	\Leftrightarrow
	Coordinate geometry	26	29	\leftrightarrow
	Number system	25	30	•
	Statistics	29	33	•
	Probability	37	35	\leftrightarrow
	Science (overall)	32	34	
	Food	36	35	↔
	Materials	30	33	+
COLENGE	The living world	35	38	
SCIENCE	Moving things, people and ideas	33	35	\leftrightarrow
	How things work	19	22	\leftrightarrow
	Natural phenomena	26	27	\leftrightarrow
	Natural resources	36	40	↔
	Social science (overall)	34	39	
	History	33	38	
SOCIAL SCIENCE	Geography	35	39	
	Economics	33	40	•
	Political science	35	41	•
	English (overall)	35	36	⇔
ENGLISH	Reading comprehension	39	37	⇔
	Language element	32	35	+
MODERN INDIAN	Modern Indian Language (overall)	43	49	
LANGUAGE (MIL)	Reading comprehension	47	52	

What students know and can do: MATHEMATICS (Performance of the students at the National level)

More difficult

20%

of students answered this item correctly

If $ax^2+bx+c=0$ has equal roots, then c is equal to

Content Domain: Algebra

1. 30.0% 2. 25.1%

% Answers:

Skill: Skill 3 item

3. 19.5%

4. 19.8%

If the nth term of an A.P. is (3n + 1), then its 30^{th} term is

- 31 1.
- 91

Skill: Skill 2 item Content Domain: Algebra

- 3. 90
- 94

- % Answers: 1. 25.8%
 - 2. 32.0%
 - 3. 27.8%
 - 4. 8.9%

32%

of students answered this item correctly

50%

of students answered this item correctly

AOB is a sector of a circle of radius 4 cm subtending an angle of 45° at the centre 'O' of the circle. Area of the sector, in cm², is

1. π

2.

Skill: Skill 1 item

 2π Content Domain: Mensuration

 3π

% Answers: 1. 17.4%

2. 49.6%

 4π

- 3. 11.2%
- 4. 17.5%

If $\triangle ABC \cong \triangle PQR$, then which of the following is true?

- 1. $B \leftrightarrow R$

Skill: Skill 1 item Content Domain: Geometry

- $A \leftrightarrow R$
- **4.** $A \leftrightarrow P$

% Answers:

- 1. 11.1%
- 2. 13.2%
- 3. 15.8%
- 4. 56.5%

57%

of students answered this item correctly

71%

of students answered this item correctly

If $\tan \theta = \frac{3}{4}$, then $\cot \theta$ is equal to

Skill: Skill 1 item Content Domain: Trigonometry

% Answers: 1. 71.1%

- 2. 11.4% 3. 9.2%
- 4. 5.5%

Less difficult

NAS items This ladder shows the percentage of students answering selected NAS items correctly.

It provides a snapshot of what students know and can do in Mathematics.

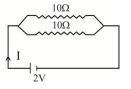
What students know and can do: SCIENCE (Performance of the students at the National level)

More difficult

18%

of students answered this item correctly

The current I in the circuit shown in the figure is



Skill: Skill 3 item Content Domain: Physics

- % Answers: 1. 20.2%
- 2. 38.0%
- 3. 17.9%

4. 0.4A 4. 18.2%

The image of an object formed by your eye lens on the retina is

- erect and real 1.
- inverted and real
- erect and virtual

Skill: Skill 2 item

inverted and virtual.

Content Domain: Physics

% Answers:

- 1. 33.1%
- 2. 31.7%
- 3. 21.7% 4. 10.9%

32%

1. 0.1A

2. 0.2A

3. 0.3A

of students answered this item correctly

53%

of students answered this item correctly

Packets of potato chips are filled with nitrogen gas in order

- Rusting
- 2. Rancidity

Skill: Skill 2 item Reduction Content Domain: Chemistry

Decomposition

% Answers:

- 1. 11.3%
- 2. 53.4%
- 3. 19.0%
- 4. 14.1%

The unit of work is

- 1. joule
- newton
- 3. newton / meter

4. watt Skill: Skill 1 item

Content Domain: Physics

% Answers:

- 1. 61.5%
- 2. 12.0%
- 3. 11.5% 4. 12.4%

of students answered this item correctly

71%

of students answered this item correctly

The fluid secreted in our mouth that mixes with food making it slippery and easy to swallow is

- gastric juice 1.
- 2. hormones

Skill: Skill 1 item

3. saliva

62%

Content Domain: Biology

bile

% Answers: 1. 11.1%

- 2. 10.0%
- 3. 71.0%
- 4. 5.6%

Less difficult

It provides a snapshot of what students know and can do in Science.

NAS item

This ladder shows the percentage of students answering selected NAS items correctly.

What students know and can do: SOCIAL SCIENCE (Performance of the students at the National level)

More difficult

20%

of students answered this item correctly

The legislative powers for the Union List in India does not

1. Foreign a airs

Defence

- 2. Banking
- Skill: Skill 1 item
- Content Domain: Political Science
- Police

% Answers:

- 1. 43.6%
- 2. 19.5%
- 3. 14.6% 4. 19.9%

Observe the table regarding hypothetical data of educational achievement of rural population of a state is given below. Choose one option and fill in the blanks.

Educational Achievement of Rural Population of a State					
Category	Male (%)	Female (%)			
Literacy rate for rural population	54	21			
Literacy rate for children in age group 10-14 years	69	41			
Percentage of rural children aged 10-14 attending school	64	34			

66%

64%

34%

3. 54%

of rural girls are not attending school

Skill: Skill 2 item **Content Domain:**

Economics

% Answers:

- 1. 30.1%
- 2. 15.4%
- 3. 14.6%
- 4. 35.5%

30%

of students answered this item correctly

47%

of students answered this item correctly

Which of the following is NOT money?

- Currency Notes
- 2. Deposits
- Coins
- Skill: Skill 2 item
- Credit Card

Content Domain: Economics

% Answers:

1. 11.2%

2. 29.9%

3. 8.8%

4. 47.4%

Which of the following statement is incorrect?

- 1. People make deposits in banks
- 2. People take loans from banks

3. People receive interest from banks

4. People repay loans without interest

Skill: Skill 1 item **Content Domain:** Economics

- % Answers:
- 1. 10.7% 2. 9.1%
- 3. 17.2%
- 4. 60.5%

61%

of students answered this item correctly

80%

of students answered this item correctly

This ladder shows the percentage of students answering selected NAS items correctly.

India is an example of which of the following system?

- 1. Monarchy
- 2. Autocracy

Skill: Skill 1 item

Content Domain: Political Science

3. Democracy

4.

- % Answers:
- Anarchy
- 1. 8.4% 2. 5.8%
- 3. 79.6%
- 4. 4.3%

Less difficult

It provides a snapshot of what students know and can do in Social Science.

What students know and can do: **ENGLISH** (Performance of the students at the **National level**)

Read the chart given below and answer the following questions.

A school decided to celebrate Book Week. The chart below shows the schedule of activities planned. Study the chart carefully and answer the questions that follow.

DAY	CLASS / ACTIVITY IN SCHOOL	VENUE	CLASS / OUTDOOR ACTIVITIES
	Class 1 - 2 : Designing bookmarks	Classrooms	Class 8 Visit to National Library
MONDAY	Class 3 - 4 : Role play	Hall -1	
	Class 5 - 6 : My favourite booktalk	Library	
THESDAY	Class 3 - 4 : Chain story telling	Auditorium	Class 5 – 6 Film : The Jungle Book
TUESDAY	Class 7 - 8 : Theatre workshop by Barry John	Hall -1	
	Class 1 - 2 : Meet the fairy tale characters	Auditorium	
WEDNIESDAY	Class 3 - 4 : Show and tell	Hall -1	
WEDNESDAY	Class 5 - 6 : Poetry recitation	Hall -2	
	Class 7 - 8 : Designing a bookcover— by Santosh Rai	Art room	
THURCHAN	Class 7 - 8 : Quiz: conducted by Mandeep Kaur	Hall -2	Class 3 - 4 Visit to National Book Trust
THURSDAY	Class 9 -10 : Meet the author Ruskin Bond	Library	
FRIDAY	Class 5 - 6 : Book reading by students	Classrooms	

What students know and can do: ENGLISH (Performance of the students at the National level)

More difficult

30% of students answered this item correctly

The school has invited _____ experts for different events.

- **1.** Two
- 2. Six
- 2. S1X

Four

4. Five

- Skill: Skill 2 item Content Domain:
- Reading Comprehension
 - . . .
 - % Answers:
 - 1. 19.9%
 - 24.5%
 29.7%
 - 4. 21.5%

Which classes will go to see 'The Jungle Book' and when?

- 1. Class 7 and 8, Tuesday
- 2. Class 3 and 4, Wednesday
- 3. Class 9 and 10, Thursday
- 4. Class 5 and 6, Tuesday

Skill: Skill 1 item Content Domain:

Reading Comprehension

% Answers:

- 1. 12.4%
- 2. 16.9%
- 3. 16.6%
- 4. 51.0%

51%

of students answered this item correctly

62%

of students answered this item correctly

On which day can the children meet Ruskin Bond?

- 1. Monday
- 2. Wednesday
- 3. Thursday
- 4. Friday

Skill: Skill 1 item Content Domain:

Reading Comprehension

% Answers:

- 1. 13.3%
- 2. 10.8%
- 3. 62.4%
- 4. 10.9%

Less difficult

NAS items

This ladder shows the percentage of students answering selected NAS items correctly.

It provides a snapshot of what students know and can do in English.

SELECTED SCHOOL CHARACTERISTICS



89% of schools have a science laboratory.

17% of schools have a mathematics laboratory.

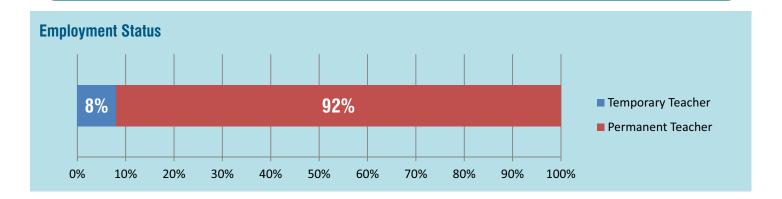


100% of schools have a library.

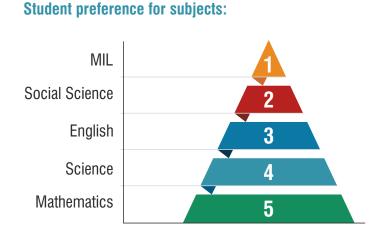
SELECTED TEACHER CHARACTERISTICS

39% of teachers sometimes make use of projects for assessing Class X students.

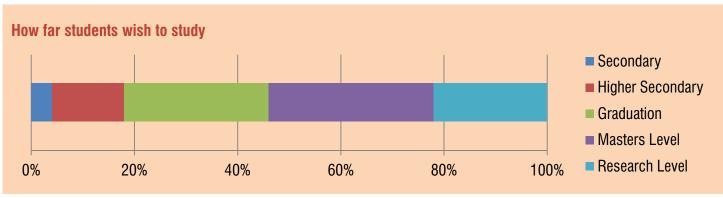
81% of teachers always make use of written tests or examinations.



SELECTED STUDENT CHARACTERISTICS IN YOUR STATE







CORE TEAM

MHRD

- Ms. Rina Ray, IAS, Secretary School, Education and Literacy (SE&L)
- Shri. Maneesh Garg, Joint Secretary, School Education and Literacy (SE&L)
- Ms. Nigar Fatima Husain, Director (RMSA-I)
- Ms. Nazli Jafari Shayin, Director (RMSA-II)
- Dr. Letha Ram Mohan, Chief Consultant, Quality and Innovation, (TSG)
- Mr. Muktar Alam, Sr. Consultant, Quality and Innovation, (TSG)

NCERT

- Prof. Hrushikesh Senapaty, Director, NCERT
- Dr. Indrani Bhaduri, Professor & Head
- Dr. Sridhar Srivastava, Professor
- Dr. Veer Pal Singh, Professor
- Dr. A.D. Tewari, Professor
- 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
- Shri Md. Arif Sadiq, *Programmer*
- Shri Vishwa Bandhu, *Programmer*

EXTERNAL

World Bank, India

STATE FUNCTIONARIES

School Boards, CBSE, ICSE, State Directorate of Education, SCERTs, SIEs, Schools



For Any Clarification Please Contact:

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