





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

STATE REPORT CARD

ASSAM

PARTICIPATION 2063 70164 9

Participating Participating

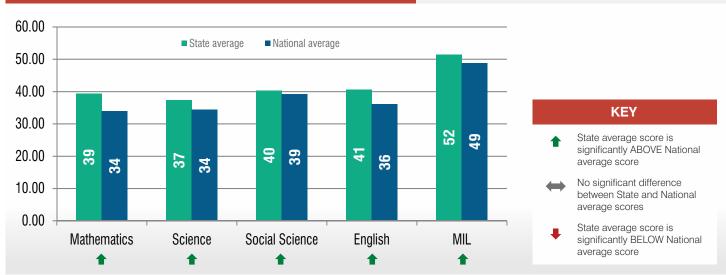
School

97%

articipating Students 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.

Performance of students in your state: Average Percent Correct



Distribution of students by range (percent correct)

SUBJECTS		0 – 35 (%)	36 – 50 (%)	51 – 75 (%)	76 – 100 (%)
Mathematics	State	53	24	17	6
Mathematics	National	67	20	11	2
Science	State	53	31	15	1
Science	National	62	27	10	1
Social Science	State	39	41	19	1
Social Science	National	44	38	17	1
English	State	49	24	22	5
Eligiisii	National	61	21	15	3
Modern Indian Language (MIL)	State	19	28	47	6
Modern malan Language (MIL)	National	27	27	39	7



Educational Survey Division

Performance by: **LOCATION**

Subjects	Rural (% Correct)	Urban (% Correct)	Significant Difference
Mathematics	39	41	+
Science	37	38	+
Social Science	40	41	+
English	40	46	+
MIL	51	52	\leftrightarrow

Performance by: **GENDER**

Subjects	Girls (% Correct)	Boys (% Correct)	Significant Difference
Mathematics	38	41	+
Science	37	38	+
Social Science	40	40	↔
English	41	41	⇔
MIL	52	51	\leftrightarrow

Performance I	by:	SOCIA	L GROUP
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Subjects	SC (% Correct)	Others (% Correct)	Significant Difference	ST (% Correct)	Others (% Correct)	Significant Difference	OBC (% Correct)	Others (% Correct)	Significant Difference
Mathematics	38	42	•	36	42	•	38	42	•
Science	37	39	•	35	39	•	37	39	•
Social Science	39	41	•	39	41	•	40	41	•
English	38	42	•	41	42	\leftrightarrow	40	42	•
MIL	50	51	\leftrightarrow	51	51	\leftrightarrow	53	51	†

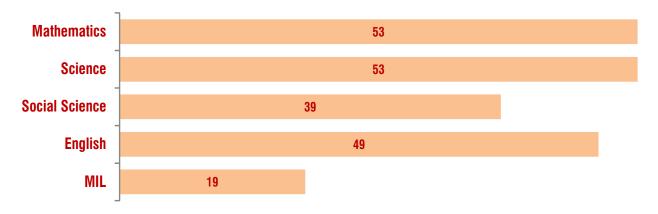
Student participation: **PERCENT**

State sample				
Group	Number of students	%		
Girls	37403	53		
Boys	32761	47		

State sample				
Group	Number of students	%		
Rural	58638	84		
Urban	11526	16		

Group	Number of students	%
SC	6598	9
ST	12342	18
OBC	22515	32
Others	28709	41

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



Skill-wise performance: (ITEM % CORRECT)

Subjects	Skill 1 (% correct)	Skill 2 (% correct)	Skill 3 (% correct)
Mathematics	43	39	35
Science	42	36	37
Social Science	43	42	38
English	47	36	35
MIL	51	56	62

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)	39	34	•
	Algebra	41	35	•
	Geometry	39	35	•
	Mensuration	37	34	•
MATHEMATICS	Trigonometry	45	37	•
	Coordinate geometry	36	29	•
	Number system	44	30	•
	Statistics	35	33	•
	Probability	39	35	•
	Science (overall)	37	34	•
	Food	34	35	+
	Materials	38	33	•
COLENOE	The living world	40	38	•
SCIENCE	Moving things, people and ideas	38	35	•
	How things work	22	22	•
	Natural phenomena	31	27	•
	Natural resources	39	40	\leftrightarrow
	Social science (overall)	40	39	•
	History	39	38	•
SOCIAL SCIENCE	Geography	40	39	•
	Economics	41	40	•
	Political science	41	41	•
	English (overall)	41	36	•
ENGLISH	Reading comprehension	39	37	•
	Language element	42	35	•
MODERN INDIAN	Modern Indian Language (overall)	52	49	•
LANGUAGE (MIL)	Reading comprehension	53	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

Skill: Skill 3 item Content Domain: Algebra

- % Answers:
- 1. 30.0%
- 2. 25.1%
- 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
- 3. 90
- 94

Skill: Skill 2 item Content Domain: Algebra

- % 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

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

Content Domain: Geometry

- % 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.

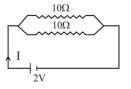
What students know and can do: SCIENCE (Performance of the students at the National level)

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 affairs

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			

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

66%

of rural girls are not attending school

- 64%
- 3. 54%
- 34%

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

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

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 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
MONDAY	Class 1 - 2 : Designing bookmarks	Classrooms	Class 8 Visit to National Library
	Class 3 - 4 : Role play	Hall -1	
	Class 5 - 6 : My favourite booktalk	Library	
TUESDAY	Class 3 - 4 : Chain story telling	Auditorium	Class 5 – 6 Film : The Jungle Book
	Class 7 - 8 : Theatre workshop by Barry John	Hall -1	
WEDNESDAY	Class 1 - 2 : Meet the fairy tale characters	Auditorium	
	Class 3 - 4 : Show and tell	Hall -1	
	Class 5 - 6 : Poetry recitation	Hall -2	
	Class 7 - 8 : Designing a bookcover— by Santosh Rai	Art room	
THURSDAY	Class 7 - 8 : Quiz: conducted by Mandeep Kaur	Hall -2	Class 3 - 4 Visit to National Book Trust
	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
- . Six 3. Four

Content Domain: Reading Comprehension

4. Five

% Answers:

Skill: Skill 2 item

- 1. 19.9%
- 2. 24.5%
- 3. 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



48% of schools have a science laboratory.

13% of schools have a mathematics laboratory.



67% of schools have a library.

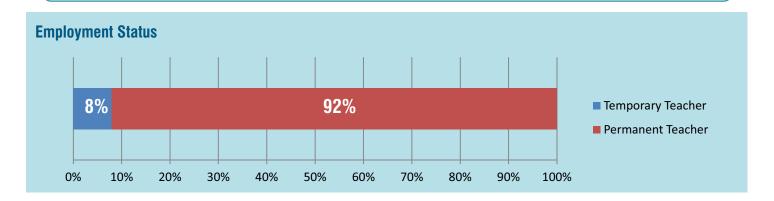
SELECTED TEACHER CHARACTERISTICS

22%

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

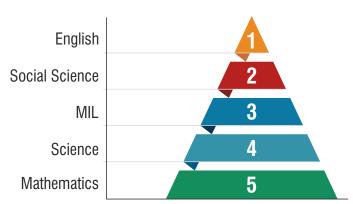
54%

of teachers always make use of written tests or examinations.

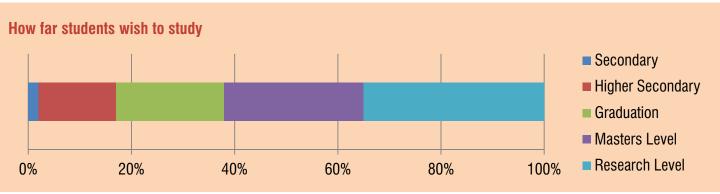


SELECTED STUDENT CHARACTERISTICS IN YOUR STATE









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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