





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

STATE REPORT CARD

MEGHALAYA

PARTICIPATION

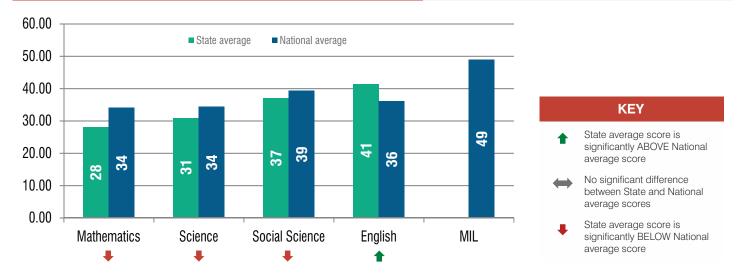
437

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.

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	84	13	2	1
Maniemancs	National	67	20	11	2
Science	State	75	21	3	1
Science	National	62	27	10	1
Social Science	State	50	37	12	1
Social Science	National	44	38	17	1
English	State	45	26	25	4
Eliglisii	National	61	21	15	3
Modern Indian Language (MIL)	State	-	-	-	-
Modern maian Language (MIL)	National	27	27	39	7



Educational Survey Division

राष्ट्रीय शैक्षिक अनुसंधान और प्रशिक्षण परिषद् NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

Performance by: **LOCATION**

Subjects	Rural (% Correct)	Urban (% Correct)	Significant Difference
Mathematics	27	30	+
Science	30	33	+
Social Science	36	40	+
English	38	49	+
MIL	-	-	

Performance by: **GENDER**

Subjects	Girls (% Correct)	Boys (% Correct)	Significant Difference
Mathematics	27	29	+
Science	31	31	↔
Social Science	37	37	↔
English	42	41	⇔
MIL	-	-	

Performance by: **SOCIAL GROUP**

Subjects	SC (% Correct)	Others (% Correct)	Significant Difference	ST (% Correct)	Others (% Correct)	Significant Difference	OBC (% Correct)	Others (% Correct)	Significant Difference
Mathematics	30	33	\Leftrightarrow	28	33	•	32	33	\Leftrightarrow
Science	34	32	\Leftrightarrow	31	32	\Leftrightarrow	34	32	\Leftrightarrow
Social Science	35	39	\Leftrightarrow	37	39	\Leftrightarrow	40	39	\Leftrightarrow
English	42	41	\Leftrightarrow	41	41	\leftrightarrow	49	41	•
MIL	-	-		-	-		-	-	

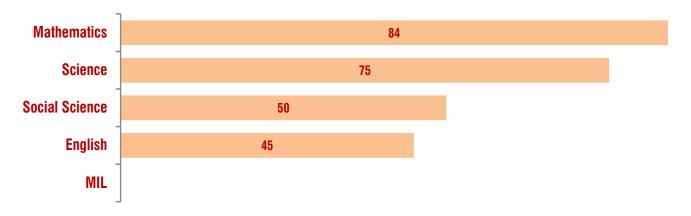
Student participation: **PERCENT**

State sample				
Group	Number of students	%		
Girls	6217	56		
Boys	4970	44		

State sample				
Group	Number of students	%		
Rural	7904	71		
Urban	3283	29		

Group	Number of students	%
SC	181	2
ST	10124	91
OBC	160	1
Others	722	6

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



Skill-wise performance: (ITEM % CORRECT)

Subjects	Skill 1 (% correct)	Skill 2 (% correct)	Skill 3 (% correct)
Mathematics	29	28	25
Science	33	29	31
Social Science	38	37	36
English	50	40	38
MIL			

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)	28	34	
	Algebra	28	35	
	Geometry	29	35	
	Mensuration	30	34	•
MATHEMATICS	Trigonometry	31	37	•
	Coordinate geometry	27	29	•
	Number system	26	30	•
	Statistics	24	33	•
	Probability	28	35	
	Science (overall)	31	34	
	Food	30	35	+
	Materials	30	33	+
COLENOE	The living world	33	38	
SCIENCE	Moving things, people and ideas	32	35	
	How things work	19	22	
	Natural phenomena	25	27	
	Natural resources	41	40	\leftrightarrow
	Social science (overall)	37	39	•
	History	38	38	\leftrightarrow
SOCIAL SCIENCE	Geography	36	39	
	Economics	40	40	\leftrightarrow
	Political science	35	41	•
	English (overall)	41	36	•
ENGLISH	Reading comprehension	42	37	•
	Language element	40	35	•
MODERN INDIAN	Modern Indian Language (overall)		49	
LANGUAGE (MIL)	Reading comprehension		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

Content Domain: Algebra

- 3. 90
- 94

Skill: Skill 2 item

- % 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

Skill: Skill 1 item Content Domain: Mensuration

2. 2π

% Answers:

- 1. 17.4%
- 2. 49.6%

 4π

 3π

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.

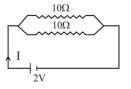
What students know and can do: SCIENCE (Performance of the students at the National level)

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	
TUESDAY	Class 3 - 4 : Chain story telling	Auditorium	Class 5 · 6 Film : The Jungle Book
TUESDAT	Class 7 - 8 : Theatre workshop by Barry John	Hall -1	
	Class 1 - 2 : Meet the fairy tale characters	Auditorium	
WEDNIEGDAY	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	
THURSDAY	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
- . 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



67% of schools have a science laboratory.

of schools have a mathematics laboratory.



58% of schools have a library.

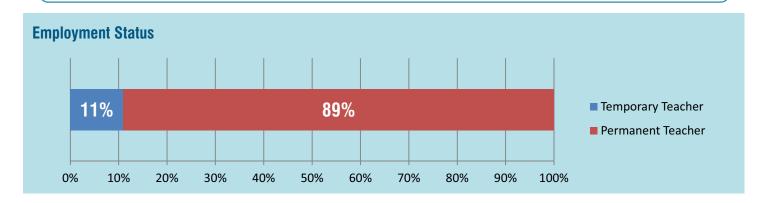
SELECTED TEACHER CHARACTERISTICS

23%

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

65%

of teachers always make use of written tests or examinations.



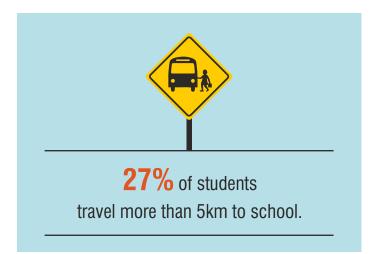
SELECTED STUDENT CHARACTERISTICS IN YOUR STATE

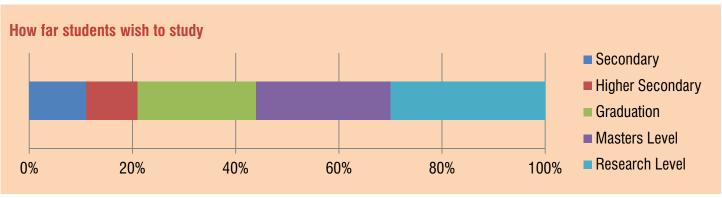


Student preference for subjects:

Social Science 4

Mathematics 5





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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