





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

STATE REPORT CARD

MIZORAM

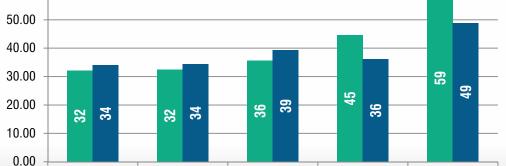
PARTICIPATION

269
6553
100%

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.

70.00 State average National average National average



Social Science

KEY

- State average score is significantly ABOVE National average score
- No significant difference between State and National average scores
 - State average score is significantly BELOW National average score

Distribution of students by range (percent correct)

Science

Mathematics

SUBJECTS		0 – 35 (%)	36 – 50 (%)	51 – 75 (%)	76 – 100 (%)
Mathematics	State	71	23	5	1
Mathematics	National	67	20	11	2
Science	State	70	26	4	-
Science	National	62	27	10	1
Social Science	State	58	33	8	1
Social Science	National	44	38	17	1
English	State	36	32	27	5
Eligiisii	National	61	21	15	3
Modern Indian Language (MIL)	State	9	15	68	8
Modern maian Language (MIL)	National	27	27	39	7

English

MIL



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	32	32	⇔
Science	32	33	\leftrightarrow
Social Science	35	37	+
English	42	48	+
MIL	59	59	\leftrightarrow

Performance by: **GENDER**

Subjects	Girls (% Correct)	Boys (% Correct)	Significant Difference
Mathematics	32	33	\leftrightarrow
Science	33	32	↔
Social Science	35	36	\leftrightarrow
English	45	45	⇔
MIL	60	58	†

Performance by: **SOCIAL GROUP**

Subjects	SC (% Correct)	Others (% Correct)	Significant Difference	ST (% Correct)	Others (% Correct)	Significant Difference	OBC (% Correct)	Others (% Correct)	Significant Difference
Mathematics	35	27	\Leftrightarrow	32	27	\Leftrightarrow	20	27	•
Science	29	37	\Leftrightarrow	32	37	\Leftrightarrow	33	37	\Leftrightarrow
Social Science	40	38	\Leftrightarrow	36	38	\Leftrightarrow	43	38	\Leftrightarrow
English	50	48	\leftrightarrow	45	48	\leftrightarrow	56	48	\Leftrightarrow
MIL	49	50	\leftrightarrow	59	50	\Leftrightarrow	54	50	\leftrightarrow

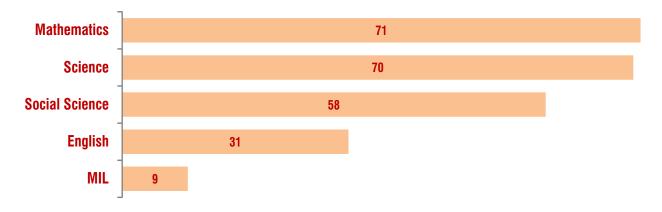
Student participation: **PERCENT**

State sample				
Group	Number of students	%		
Girls	3531	54		
Boys	3022	46		

State sample				
Group	Number of students	%		
Rural	3476	53		
Urban	3077	47		

Group	Number of students	%
SC	36	1
ST	6468	98
OBC	12	0
Others	37	1

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



Skill-wise performance: (ITEM % CORRECT)

Subjects	Skill 1 (% correct)	Skill 2 (% correct)	Skill 3 (% correct)
Mathematics	33	32	30
Science	34	31	34
Social Science	36	36	34
English	54	41	40
MIL	50	56	74

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	32	34	•
MATHEMATICS	Trigonometry	33	37	•
	Coordinate geometry	29	29	\leftrightarrow
	Number system	25	30	•
	Statistics	28	33	•
	Probability	29	35	
	Science (overall)	32	34	
	Food	32	35	+
	Materials	31	33	+
COLENOE	The living world	36	38	
SCIENCE	Moving things, people and ideas	33	35	
	How things work	23	22	\leftrightarrow
	Natural phenomena	26	27	\leftrightarrow
	Natural resources	42	40	\leftrightarrow
	Social science (overall)	36	39	
	History	37	38	
SOCIAL SCIENCE	Geography	34	39	
	Economics	38	40	•
	Political science	35	41	•
	English (overall)	45	36	•
ENGLISH	Reading comprehension	45	37	•
	Language element	44	35	•
MODERN INDIAN	Modern Indian Language (overall)	59	49	•
LANGUAGE (MIL)	Reading comprehension	58	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 30th 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.

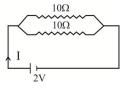
What students know and can do: SCIENCE (Performance of the students at the National level)

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
- Six
- Four 4. Five

- Reading Comprehension
 - % Answers:

Skill: Skill 2 item

Content Domain:

- 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
- 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



76% of schools have a science laboratory.

9% of schools have a mathematics laboratory.



58% of schools have a library.

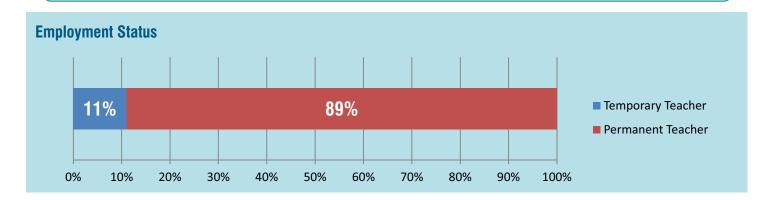
SELECTED TEACHER CHARACTERISTICS

11%

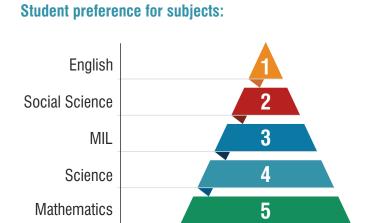
of teachers sometimes make use of projects for assessing Class X students.

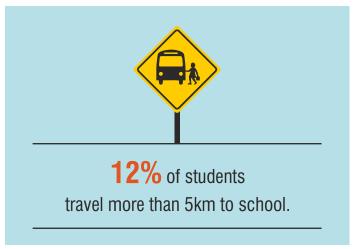
44%

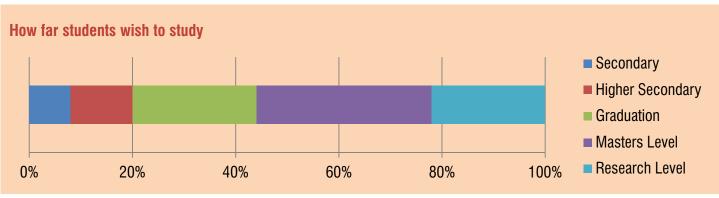
of teachers always make use of written tests or examinations.



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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