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



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


KEY

- State average score is significantly ABOVE National average score
$\Leftrightarrow$ No significant difference between State and National average scores

1. State average score is significantly BELOW National average score

Distribution of students by range (percent correct)

| SUBJECTS |  | $\begin{gathered} 0-35 \\ (\%) \end{gathered}$ | $\begin{gathered} 36-50 \\ (\%) \end{gathered}$ | $\begin{gathered} 51-75 \\ (\%) \end{gathered}$ | $\begin{gathered} 76-100 \\ (\%) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Mathematics | State | 28 | 23 | 31 | 18 |
|  | National | 67 | 20 | 11 | 2 |
| Science | State | 23 | 28 | 39 | 10 |
|  | National | 62 | 27 | 10 | 1 |
| Social Science | State | 16 | 28 | 47 | 9 |
|  | National | 44 | 38 | 17 | 1 |
| English | State | 14 | 22 | 42 | 22 |
|  | National | 61 | 21 | 15 | 3 |
| Modern Indian Language (MIL) | State | 10 | 16 | 50 | 24 |
|  | National | 27 | 27 | 39 | 7 |

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## Performance by: LOCATION

| Subjectis | Rural <br> (\% Correci) | Urban <br> (\% Correcti) | Significant <br> Difierence |
| :--- | :---: | :---: | :---: |
| Mathematics | 52 | 53 | $\Leftrightarrow$ |
| Science | 50 | 51 | $\Leftrightarrow$ |
| Social Science | 53 | 53 | $\Leftrightarrow$ |
| English | 57 | 59 | $\Leftrightarrow$ |
| MIL | 63 | 61 | $\Leftrightarrow$ |

Performance by: GENDER

| Subjects | Cirls <br> (\% Correat) | Boys <br> (\% Correati) | Significant <br> Difierence |
| :--- | :---: | :---: | :---: |
| Mathematics | 51 | 53 | $\Leftrightarrow$ |
| Science | 51 | 51 | $\Leftrightarrow$ |
| Social Science | 54 | 53 | $\Leftrightarrow$ |
| English | 62 | 56 | $\uparrow$ |
| MIL | 64 | 60 | $\uparrow$ |

Performance by: SOCIAL GROUP

| Subjects | SC $(\%$ Correal $)$ | Oithers (\% Correci) | Significant Difiference | $\begin{gathered} \text { ST } \\ \text { (\% Correeti) } \end{gathered}$ | Others <br> (\% Correct) | Significant Difiference | $\begin{gathered} \text { OBC } \\ \text { (\% Correcti) } \end{gathered}$ | Others (\% Coriect) | Significant Difiference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mathematics | 45 | 53 | $\downarrow$ | 44 | 53 | $\Leftrightarrow$ | 52 | 53 | $\Leftrightarrow$ |
| Science | 51 | 52 | $\Leftrightarrow$ | 47 | 52 | $\Leftrightarrow$ | 50 | 52 | $\Leftrightarrow$ |
| Social Science | 48 | 55 | $\downarrow$ | 49 | 55 | $\square$ | 52 | 55 | $\dagger$ |
| English | 52 | 61 | $\square$ | 61 | 61 | - | 55 | 61 | $\downarrow$ |
| MIL | 59 | 62 | $\Leftrightarrow$ | 57 | 62 | $\Leftrightarrow$ | 62 | 62 | $\Leftrightarrow$ |

Student participation: PERCENT

| State sample |  |  |
| :---: | :---: | :---: |
| Group | Number of students | $\%$ |
| Girls | 3790 | 42 |
| Boys | 5266 | 58 |


| State sample |  |  |
| :---: | :---: | :---: |
| Group | Number of students | $\%$ |
| Rural | 3386 | 37 |
| Urban | 5670 | 63 |


| Group | Number of students | $\%$ |
| :---: | :---: | :---: |
| SC | 549 | 6 |
| ST | 134 | 1 |
| OBC | 3079 | 34 |
| Others | 5294 | 59 |

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



Skill-wise performance: (ITEM \% CORRECT)

| Subjects | Skill 1 <br> (\% correct) | Skill 2 <br> (\% correct) | Skill 3 <br> (\% correct) |
| :--- | :---: | :---: | :---: |
| Mathematics | 56 | 51 | 48 |
| Science | 56 | 51 | 48 |
| Social Science | 55 | 53 | 52 |
| English | 73 | 57 | 61 |
| MIL | 63 | 62 | 64 |


| Skill 1 | Remembering: Recognizing or recalling knowledge from memory. |
| :---: | :--- |
| Skill $\mathbf{2}$ | 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 | Mathematics (overall) | 52 | 34 | - |
|  | Algebra | 53 | 35 | - |
|  | Geometry | 54 | 35 | - |
|  | Mensuration | 54 | 34 | - |
|  | Trigonometry | 60 | 37 | - |
|  | Coordinate geometry | 44 | 29 | - |
|  | Number system | 44 | 30 | - |
|  | Statistics | 42 | 33 | - |
|  | Probability | 57 | 35 | - |
| SCIENCE | Science (overall) | 51 | 34 | - |
|  | Food | 50 | 35 | - |
|  | Materials | 53 | 33 | - |
|  | The living world | 54 | 38 | - |
|  | Moving things, people and ideas | 46 | 35 | - |
|  | How things work | 31 | 22 | - |
|  | Natural phenomena | 46 | 27 | - |
|  | Natural resources | 56 | 40 | - |
| SOCIAL SCIENCE | Social science (overall) | 53 | 39 | - |
|  | History | 53 | 38 | - |
|  | Geography | 48 | 39 | - |
|  | Economics | 57 | 40 | - |
|  | Political science | 54 | 41 | - |
| ENGLISH | English (overall) | 58 | 36 | - |
|  | Reading comprehension | 63 | 37 | - |
|  | Language element | 53 | 35 | - |
| MODERN INDIAN LANGUAGE (MIL) | Modern Indian Language (overall) | 62 | 49 | - |
|  | Reading comprehension | 64 | 52 | - |

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




## 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 <br> Visit to National Library |
|  | Class 3-4: Role play | Hall -1 |  |
|  | Class 5-6: My favourite book--talk | Library |  |
| TUESDAY | Class 3-4: Chain story telling | Auditorium | Class 5-6 <br> 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 <br> Visit to National Book Trust |
|  | Class 9-10: Meet the author-- Ruskin Bond | Library |  |
| FRIDAY | Class 5-6: Book reading by students | Classrooms |  |

## More difficult

## 30\%

of students answered this item correctly

The school has invited $\qquad$ experts for different events.

1. Two
2. Six
3. Four
4. Five

Skill: Skill 2 item
Content Domain:
Reading Comprehension
\% Answers:

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. $51.0 \%$

On which day can the children meet Ruskin Bond?

1. Monday
2. Wednesday
3. Thursday

Skill: Skill 1 item
Content Domain:
4. Friday

Reading Comprehension
\% Answers:

1. $13.3 \%$
2. $10.8 \%$
3. $\mathbf{6 2 . 4 \%}$
4. $10.9 \%$

## Less difficult

SELECTED SCHOOL CHARACTERISTICS
$96 \%$
of schools have
a science laboratory.

## SELECTED TEACHER CHARACTERISTICS

40\%
of teachers sometimes make use of projects for assessing Class $X$ students.
70\%
of teachers always make use of written tests or examinations.


## SELECTED STUDENT CHARACTERISTICS IN YOUR STATE

Student preference for subjects:

$36 \%$ of students travel more than 5km to school.

How far students wish to study

|  |  |  |  |  |  | $\begin{aligned} & \text { Secondary } \\ & \text { Higher Secondary } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  | $■ \text { Masters Level }$ |
| 0\% | 20\% | 40\% | 60\% | 80\% | 100\% | $\square$ Research Level |

## 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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