



State Report

Manipur



FLS 2022 Foundational Learning Study

State Report Manipur

FLS 2022

Foundational Learning Study

State Report **Manipur**

Copyright © 2022 NCERT

All rights reserved. No part of this report may be reproduced in any form or by any electronic or mechanical means – except in the case of brief quotations embodied in articles or reviews – without written permission from its publisher.

First Edition: September 2022

Unpriced — Printed Digitally

Published by National Council of Educational Research and Training, Sri Aurobindo Marg, New Delhi 110016.

www.ncert.nic.in

धर्मेन्द्र प्रधान ଧର୍ମେଦ୍ର ପ୍ରଧାନ Dharmendra Pradhan





मंत्री शिक्षा; कौशल विकास और उद्यमशीलता भारत सरकार



Minister
Education; Skill Development
& Entrepreneurship
Government of India

MESSAGE

The National Education Policy 2020 has most aptly pointed out that the ability to read and write, and perform basic operations with numbers, is a necessary foundation and an indispensable prerequisite for all future schooling and lifelong learning. The highest priority has therefore been awarded to achieving universal foundational literacy and numeracy at the end of Grade III, by 2026-27 through a National Mission i.e., the National Initiative for Proficiency in Reading with Understanding and Numeracy (NIPUN Bharat).

As a crucial step towards strengthening efforts for Foundational Literacy and Numeracy, the Ministry of Education has conducted a large scale nationwide Foundational Learning Study (FLS) in collaboration with the National Council of Educational Research and Training (NCERT) during March, 2022. The study is first of its kind in the world as it aims to set-up benchmarks for reading with comprehension in 20 Indian languages. More importantly, FLS will also provide data to report on Sustainable Development Goal (SDG) 4.1.1 indicators at the global level.

With great pride, I would like to underline the fact that this Foundational Learning Study is the largest one-on-one study with a sample size of 85000+ Grade 3 students. This is also the first time the policy linking method for setting global benchmarks has been implemented on one-on-one numeracy assessments.

I would like to take this opportunity to congratulate all partners who were involved in conceptualization and implementation of this critical study. The first hand inferences of learning levels of students in the foundational stage drawn from the Foundational Learning Study will go a long way towards establishing Foundational Literacy and Numeracy as an essential pre-requisite to learning.

I extend my best wishes to all stakeholders who would be involved in this tremendous task of translating the vision of NEP 2020 for achieving universal Foundational Literacy and Numeracy.

(Dharmendra Pradhan)

सबको शिक्षा, अच्छी शिक्षा



कौशल भारत, कुशल भारत







राज्य मंत्री शिक्षा मंत्रालय भारत सरकार MINISTER OF STATE FOR EDUCATION GOVERNMENT OF INDIA

0 2 SEP 2022

MESSAGE

Attaining foundational literacy and numeracy for all children has been accorded utmost importance by the National Education Policy 2020. As a first step, the Department of School Education & Literacy has set up a National Mission for universalization of Foundational Literacy and Numeracy called National Initiative for Proficiency in Reading with Understanding and Numeracy (NIPUN Bharat). The Mission aims to ensure that all children by the end of grade 3 achieve foundational learning standards by the year 2026-27.

Following the Mission mandate, the Ministry in collaboration with the National Council of Educational Research and Training (NCERT) has conducted a large scale Foundational Learning Study (FLS) in March, 2022. FLS covered Grade 3 students and aims to benchmark Foundational Literacy and Numeracy in 20 Indian languages, which will enable to track the progress of a child.

As this Foundational Learning Study provides insights into the learning level in Foundational Literacy and Numeracy skills, the interventions and the follow up steps will result in overall improvement in the system to provide required foundational literacy and numeracy skills to the learners.

I would like to extend my appreciation to the team who conducted this crucial study and convey my best wishes to all stakeholders who are involved in the mammoth task of attaining Foundational Literacy and Numeracy in consonance with the vision of NEP 2020.

(ANNPURNA DEVI)





Office: Room No. 126, 'C' Wing, Shastri Bhavan, New Delhi-110 001 Phone: 91-11-23384073, 23386163, Fax: 91-11-23385112 E-mail: mosedu-ad@gov.in अनीता करवल, भा.प्र.से सचिव

Anita Karwal, IAS Secretary



स्कूल शिक्षा और साक्षरता विभाग शिक्षा मंत्रालय भारत सरकार Department of School Education & Literacy Ministry of Education Government of India

Dated: 02nd September, 2022

Message

Early years of development of a young child is a period of rapid brain development. Research also indicates that 80-90 percent of the brain develops by the time a child is 6-7 years old. That is why the focus on building the strong foundation for better growth, development and learning in early years becomes one of the most important indicators for the development of a productive and efficient human capital. The National Education Policy, 2020 has also accorded the highest importance to the achievement of foundational literacy and numeracy skills and categorically recognizes that the rest of this policy will become relevant for our children only if this most basic learning requirement is first achieved.

Towards this end, a National Mission on Foundational Literacy and Numeracy known as NIPUN Bharat (National Initiative for Proficiency in Reading with Understanding and Numeracy) has been launched. The focus is on creating an enabling environment for ensuring universal acquisition of foundational literacy and numeracy, so that every child achieves the desired learning competencies in reading, writing and numeracy at the end of Grade III.

In keeping with this goal, we were able to conduct the largest one-on-one Foundational Learning Study in collaboration with other likeminded partners to establish reading proficiency benchmarks for fluency and comprehension in 20 Indian languages and proficiency benchmarks for numeracy. For the first time, policy linking method for setting global benchmarks has also been implemented on one-on-one numeracy assessments. Hence, the study aims to provide reliable, valid and comparable data that can be used to monitor the performance of the system in giving children a robust foundational education.

It gives me great pleasure to share the FLS report with all of you and to partner you in this incredible task ahead to achieve universal acquisition of foundational literacy and numeracy skills at the primary level.

(Anita Karwal)

E-mail: secy.sel@nic.in

About FLS

Ministry of Education launched the National Initiative for Proficiency in Reading with Understanding and Numeracy (NIPUN) Bharat in July 2021. NIPUN was announced as a national mission to enable all children at the end of Grade 3 to attain foundational skills by the year 2026-2027. As a crucial step towards strengthening efforts for Foundational Literacy and Numeracy (FLN), a large-scale Foundational Learning Study (FLS) has been undertaken by National Council of Educational Research and Training (NCERT) in March 2022.

Objectives of the study

Assess learning outcomes: The study aims to provide reliable and valid data about Grade 3 students to know what they are able to do in foundational literacy and numeracy and the extent of learning outcomes being achieved.

Set baseline for NIPUN: The data derived from the FLS Study would help in establishing a baseline for the NIPUN Bharat mission.

Set benchmarks: The Study also aims to establish reading proficiency benchmarks for fluency and comprehension for each of the languages (20 in number) being assessed under the study and proficiency benchmarks for numeracy.

Report on SDG: This study will also provide data to report on SDG 4.1.1 indicators at the global level.

Coverage of the Study and Sample

Approx. 86,000 grade 3 students from 10,000 schools were covered. The Study sample included state government schools, government aided schools, private recognised and central government schools.



FLS was conducted in 20 languages which are being used as a medium of instruction in various state/UTs covering - Assamese, Bengali, English, Gujarati, Hindi, Kannada, Malayalam, Manipuri, Marathi, Mizo, Odia, Punjabi, Tamil, Telugu, Urdu, Bodo, Garo, Khasi, Konkani and Nepali.

Study Methodology

The FLS Study is a school-based performance assessment. Selected sample of children from grade 3 were assessed by a test administrator in a one-on-one setting where each child responded to a set of questions administered orally.

Several foundational literacy skills including oral language comprehension, phonological awareness, decoding, reading comprehension, oral reading fluency with comprehension were assessed as part of assessment. For foundational numeracy, number identification & comparison, number operations, multiplication and division facts, measurement, fractions, patterns, and data handling are included.

Study Achievements

Psychometric analysis of the data has been carried out. Benchmarks for oral reading fluency and comprehension in 20 languages and benchmarks for numeracy have been established.

A policy linking methodology has been implemented for the first time to arrive at the benchmarks in literacy and numeracy under the FLS 2022.

Foundational Learning Study 2022 is the largest study that assessed the learning levels of more than 86,000 students across India and is the only study that has been conducted in 20 different languages.

PARTICIPATION







Educational Profile of The State/UT



4,389

Total number of schools with grade 3



25,058

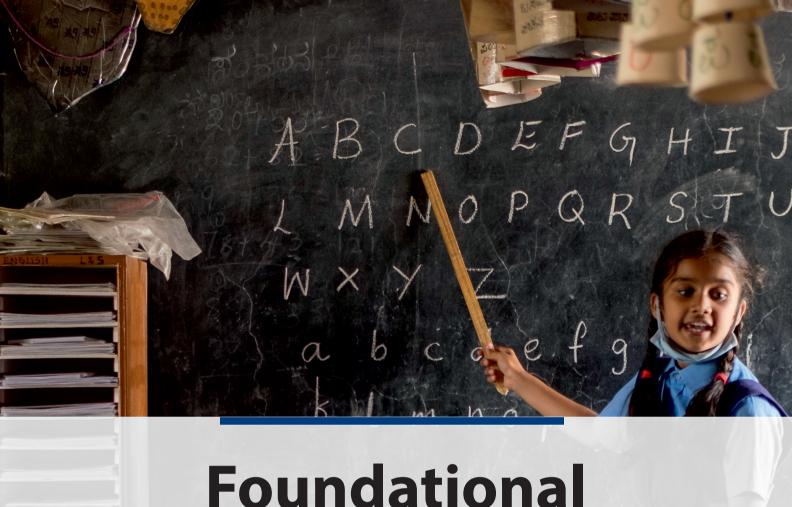
Total number of teachers in primary grades



63,822

Total enrollment in grade 3



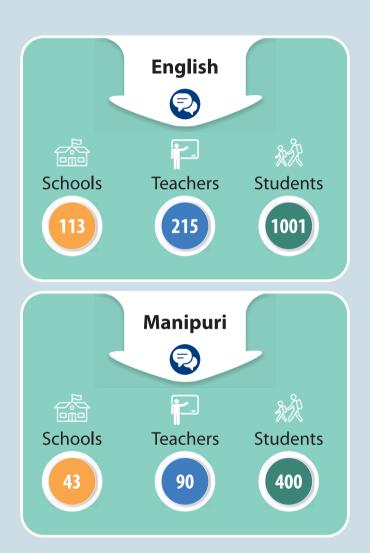


Foundational Literacy



Foundational Learning Study 2022 Languages Assessed in the State/UT

Manipur



Foundational Literacy

Foundational Literacy comprises of the ability of reading, writing and communicating in a particular language. In the Foundational Learning Study, foundational literacy has been assessed through different sub-tasks as explained below:

Subtasks Assessed in Foundational Literacy

Subtask	Description of the subtask
Oral Language Comprehension	Listening to 5 different texts (Comprising 1 sentence, 2 sentences and 3 sentences) and matching the content of each of the texts with the given pictures.
Phonological awareness	The task was based on identifying the initial and final sounds in 12 grade level words
Decoding Letters	Reading aloud 100 individual (but repeated) letters and syllables of a particular language presented in the form of a grid
Decoding Words	Reading aloud 50 distinct grade level words
Decoding Non-words	Reading aloud 50 distinct grade level words
Picture Matching	Reading 5 different texts (Comprising 1 sentence, 2 sentences and 3 sentences) and matching the content of each of the texts with the given pictures
Oral Reading Fluency (ORF) and comprehension	Reading aloud two grade appropriate short stories and answering questions related to retrieval and inferences.



Oral Language Comprehension

The ability to understand the meaning of language (through spoken stories or pictures)

The task comprised of listening to different texts (Comprising 1 sentence, 2 sentences and 3 sentences) and matching the content of each of the texts with the given pictures.

Percentage of Students

Descriptor		National Average Performance (%)
Listens and Comprehends four to five texts of varying lengths correctly	80	85

Average Score in Oral language Comprehension (on a scale of 0 to 5)





Phonological Awareness

The ability to identify sounds within a given word

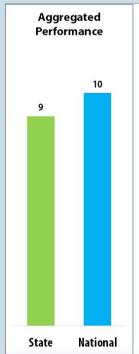
The task was based on identifying the initial and final sounds in grade level words

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Correctly identifies at least one initial sound in grade level words	97	95
Correctly identifies at least one final sound in grade level words	93	93
Not able to identify the initial sound and final sound in any of the given grade level words	3	4

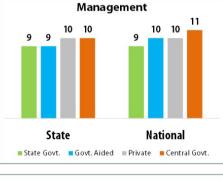
Average Score in Identification of Initial and Final Sound of a Word (on a scale of 0 to 12)

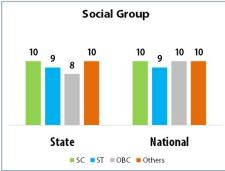
National





■ Rural ■ Urban





State



Decoding Letters

The ability to sound out the symbols (akshara or letters)

The task comprised of reading aloud letters and syllables of a particular language.

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Reads 80-100 letters correctly and fluently	97	95
Reads 50-79 letters correctly/reads some letters with self correction	2	3
Reads 10-49 letters correctly/hesitantly with self correction	0	2
Reads less than 10 letters correctly/hesitantly with self correction	0	1

Average Score in Identification of Symbol-Sound Correspondence (on a scale of 0 to 100)





Decoding Words

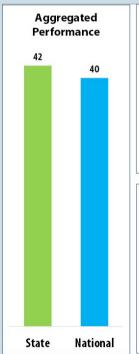
The ability to sound out gradelevel real words The task was based on reading aloud 50 grade level words.

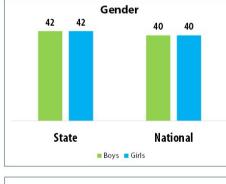
On average students can read 42 words correctly.

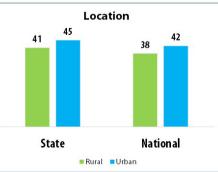
Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Reads 80% and more words correctly and fluently	76	73
Reads 50% to Less than 80% words correctly (with self correction wherever needed)	17	13
Reads 10% to less than 50% words correctly (with self correction wherever needed)	4	8
Reads less than 10% words correctly (with self correction wherever needed)	3	7

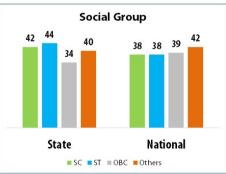
Average Score in Decoding of Common, Isolated Words (on a scale of 0 to 50)













Decoding Non-Words

the ability to sound out non-words by identifying each symbol's (akshara or letter) sound

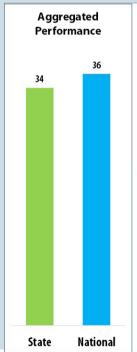
The task was based on reading aloud 50 non-words.

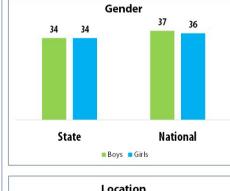
On average students can read 34 non-words correctly.

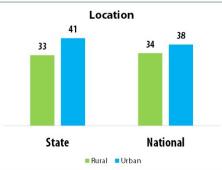
Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Reads 80% and more words correctly and fluently	49	62
Reads 50% to Less than 80% words correctly (with self correction wherever needed)	28	18
Reads 10% to less than 50% words correctly (with self correction wherever needed)	16	9
Reads less than 10% words correctly (with self correction wherever needed)	8	11

Average Score in Decoding of a Non-word/Non-sense word (on a scale of 0 to 50)













Picture Matching

The ability to understand the meaning of written text

The task comprised of reading different texts (Comprising 1 sentence, 2 sentences and 3 sentences) and matching the content of each of the texts with the given pictures

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Reads and Comprehends four to five texts of varying lengths correctly	82	87

Average Score on Picture Reading Comprehension (on a scale of 0 to 5)

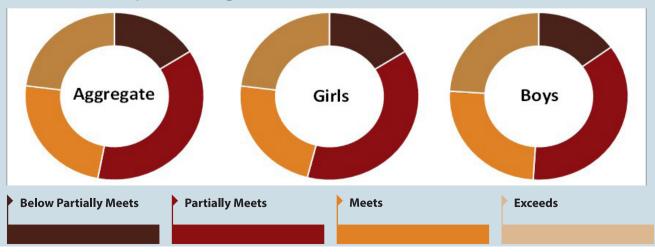




Benchmark of ORF with Comprehension and Student Performance

Global Proficiend	cy Levels	Below Partially Meets Global Minimum Proficiency	Partially Meets Global Minimum Proficiency	Meets Global Minimum Proficiency	Exceeds Global Minimum Proficiency
Definitio	n	Learners lack the most basic knowledge and skills. As a result, they generally cannot complete the most basic grade-level tasks.	Learners have limited knowledge and skills. As a result, they can partially complete basic grade-level tasks.	Learners have developed sufficient knowledge and skill. As a result, they can successfully complete the most basic grade-level tasks.	Learners have developed superior knowledge and skill. As a result, they can complete complex grade-level tasks.
Benchma	rk	0 - 14 correctly read words with comprehension in one minute.	15 - 34 correctly read words with comprehension in one minute.	35 - 53 correctly read words with comprehension in one minute.	54 and above correctly read words with comprehension in one minute.
Percentage	State/UT	16	37	24	23
of Students meeting the standard	National	17	29	21	33
Percentage of	State/UT	16	38	23	23
Girls meeting the standard	National	17	29	21	33
Percentage of	State/UT	15	36	25	24
Boys meeting the standard	National	16	30	21	33

Distribution of Students by Global Proficiency Levels in the State/UT (In percentage)





Oral Language Comprehension

The ability to understand the meaning of language (through spoken stories or pictures)

The task comprised of listening to different texts (Comprising 1 sentence, 2 sentences and 3 sentences) and matching the content of each of the texts with the given pictures.

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Listens and Comprehends four to five texts of varying lengths correctly	87	87

Average Score in Oral language Comprehension (on a scale of 0 to 5)





Phonological Awareness

The ability to identify sounds within a given word

The task was based on identifying the initial and final sounds in grade level words

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Correctly identifies at least one initial sound in grade level words	96	96
Correctly identifies at least one final sound in grade level words	91	91
Not able to identify the initial sound and final sound in any of the given grade level words	4	4

Average Score in Identification of Initial and Final Sound of a Word (on a scale of 0 to 12)





Decoding Letters

The ability to sound out the symbols (akshara or letters)

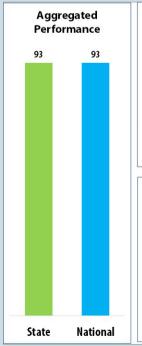
The task comprised of reading aloud letters and syllables of a particular language.

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Reads 80-100 letters correctly and fluently	93	93
Reads 50-79 letters correctly/reads some letters with self correction	5	5
Reads 10-49 letters correctly/hesitantly with self correction	3	3
Reads less than 10 letters correctly/hesitantly with self correction	0	0

Average Score in Identification of Symbol-Sound Correspondence (on a scale of 0 to 100)

Gender

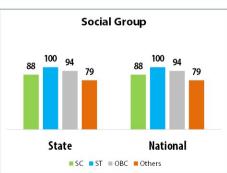




■ Rural ■ Urban

National





State



Decoding Words

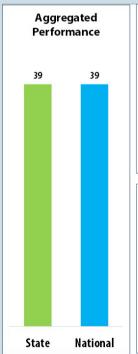
The ability to sound out gradelevel real words The task was based on reading aloud 50 grade level words.

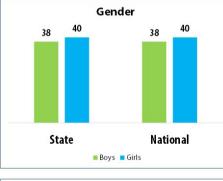
On average students can read 39 words correctly.

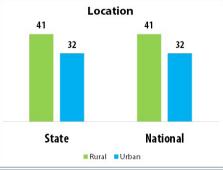
Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Reads 80% and more words correctly and fluently	70	70
Reads 50% to Less than 80% words correctly (with self correction wherever needed)	13	13
Reads 10% to less than 50% words correctly (with self correction wherever needed)	11	11
Reads less than 10% words correctly (with self correction wherever needed)	5	5

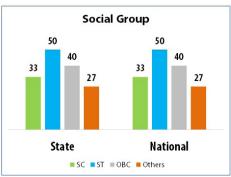
Average Score in Decoding of Common, Isolated Words (on a scale of 0 to 50)













Decoding Non-Words

the ability to sound out non-words by identifying each symbol's (akshara or letter) sound

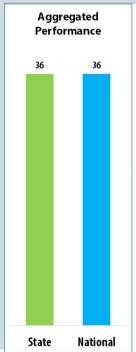
The task was based on reading aloud 50 non-words.

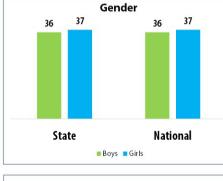
On average students can read 36 non-words correctly.

Percentage of Students

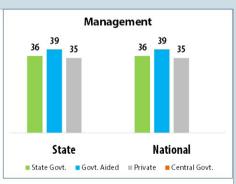
Descriptor	State Average Performance (%)	National Average Performance (%)
Reads 80% and more words correctly and fluently	60	60
Reads 50% to Less than 80% words correctly (with self correction wherever needed)	19	19
Reads 10% to less than 50% words correctly (with self correction wherever needed)	11	11
Reads less than 10% words correctly (with self correction wherever needed)	10	10

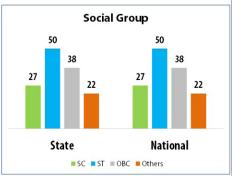
Average Score in Decoding of a Non-word/Non-sense word (on a scale of 0 to 50)













Picture Matching

The ability to understand the meaning of written text

The task comprised of reading different texts (Comprising 1 sentence, 2 sentences and 3 sentences) and matching the content of each of the texts with the given pictures

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Reads and Comprehends four to five texts of varying lengths correctly	90	90

Average Score on Picture Reading Comprehension (on a scale of 0 to 5)

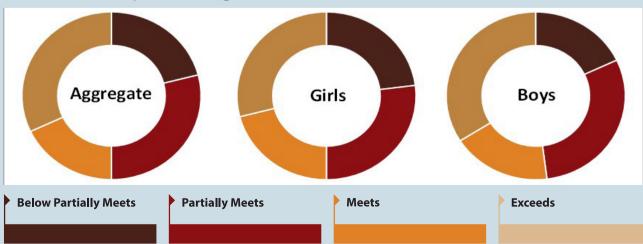




Benchmark of ORF with Comprehension and Student Performance

Global Proficiend	y Levels	Below Partially Meets Global Minimum Proficiency	Partially Meets Global Minimum Proficiency	Meets Global Minimum Proficiency	Exceeds Global Minimum Proficiency
Definition	n	Learners lack the most basic knowledge and skills. As a result, they generally cannot complete the most basic grade-level tasks.	Learners have limited knowledge and skills. As a result, they can partially complete basic grade-level tasks.	Learners have developed sufficient knowledge and skill. As a result, they can successfully complete the most basic grade-level tasks.	Learners have developed superior knowledge and skill. As a result, they can complete complex grade-level tasks.
Benchma	rk	0 - 10 correctly read words with comprehension in one minute.	11 - 34 correctly read words with comprehension in one minute.	35 - 58 correctly read words with comprehension in one minute.	59 and above correctly read words with comprehension in one minute.
Percentage	State/UT	21	29	18	32
of Students meeting the standard	National	21	29	18	32
Percentage of	State/UT	23	27	21	29
Girls meeting the standard	National	23	27	21	29
Percentage of	State/UT	18	30	18	34
Boys meeting the standard	National	18	30	18	34

Distribution of Students by Global Proficiency Levels in the State/UT (In percentage)





Association of Background Variables with Literacy

The relationship between learning achievement of students and variables related to student's home background and school were analyzed by using different statistical technique. This chapter discusses the association of the different contextual variables with the achievements of the students.

1. Association Results: Student Profile

The given section details the association results regarding various student related variables.

Table 1.1: Language spoken by students at home is the same as medium of instruction

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.17	-0.19
Phonological Awareness	0.12	0.04
Decoding Letters	-2.65	-0.27
Decoding Words	-2.42	-0.19
Decoding Non-words	1.03	0.07
Picture Matching	0.05	0.05
Oral Reading Fluency (ORF)	1.49	0.07
ORF with Comprehension	0.20	0.12

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 1.2: Attended pre-primary Classes/Anganwadi

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.18	-0.20
Phonological Awareness	-0.28	-0.10
Decoding Letters	-1.23	-0.12
Decoding Words	-0.28	-0.02
Decoding Non-words	0.82	0.05
Picture Matching	0.00	0.00
Oral Reading Fluency (ORF)	-2.48	-0.11
ORF with Comprehension	0.29	0.17

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 1.3: Ask questions in the class

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.03	-0.03
Phonological Awareness	0.44	0.15
Decoding Letters	0.69	0.07
Decoding Words	-0.14	-0.01
Decoding Non-words	0.68	0.04
Picture Matching	0.03	0.03
Oral Reading Fluency (ORF)	-2.81	-0.13
ORF with Comprehension	0.59	0.35

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 1.4: Reads other materials in addition to textbooks

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.02	-0.02
Phonological Awareness	0.15	0.05
Decoding Letters	0.52	0.05
Decoding Words	0.25	0.02
Decoding Non-words	0.12	0.01
Picture Matching	0.14	0.14
Oral Reading Fluency (ORF)	2.89	0.13
ORF with Comprehension	0.16	0.09

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 1.5: Playing Game

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.03	0.03
Phonological Awareness	-0.33	-0.11
Decoding Letters	-0.41	-0.04
Decoding Words	-0.16	-0.01
Decoding Non-words	0.07	0.00
Picture Matching	-0.17	-0.17
Oral Reading Fluency (ORF)	6.75	0.31
ORF with Comprehension	-0.22	-0.13

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 1.6: Story telling with family members

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.07	0.08
Phonological Awareness	0.50	0.17
Decoding Letters	-1.57	-0.16
Decoding Words	-1.73	-0.14
Decoding Non-words	-2.03	-0.13
Picture Matching	-0.04	-0.04
Oral Reading Fluency (ORF)	-0.78	-0.04
ORF with Comprehension	0.01	0.01

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 1.7: Playing Game with family members

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.06	0.07
Phonological Awareness	0.06	0.02
Decoding Letters	-0.70	-0.07
Decoding Words	-0.68	-0.05
Decoding Non-words	0.56	0.04
Picture Matching	-0.10	-0.10
Oral Reading Fluency (ORF)	3.65	0.17
ORF with Comprehension	0.04	0.02

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 1.8: Time taken to go to school upto 30 mins.

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.08	-0.09
Phonological Awareness	-0.46	-0.16
Decoding Letters	0.16	0.02
Decoding Words	-0.47	-0.04
Decoding Non-words	2.99	0.19
Picture Matching	-0.11	-0.11
Oral Reading Fluency (ORF)	-1.64	-0.07
ORF with Comprehension	0.15	0.09

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 1.9: Time taken to go to school more than 30 mins.

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.08	0.09
Phonological Awareness	0.46	0.16
Decoding Letters	-0.16	-0.02
Decoding Words	0.47	0.04
Decoding Non-words	-2.99	-0.19
Picture Matching	0.11	0.11
Oral Reading Fluency (ORF)	1.64	0.07
ORF with Comprehension	-0.15	-0.09

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

2. Association Results: Teacher Profile

The given section details the association results regarding various teacher related variables.

Table 2.1: Teaching at Foundational stage: less than 3 years/more than 3 years

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.13	0.15
Phonological Awareness	0.12	0.04
Decoding Letters	-0.06	-0.01
Decoding Words	-1.63	-0.13
Decoding Non-words	0.99	0.06
Picture Matching	0.13	0.13
Oral Reading Fluency (ORF)	6.91	0.32
ORF with Comprehension	-0.14	-0.08

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 2.2: Attend any in-service workshop/Training to understand the learning needs and other developmental aspects in young children

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.14	-0.16
Phonological Awareness	0.43	0.15
Decoding Letters	-1.64	-0.16
Decoding Words	-4.06	-0.33
Decoding Non-words	-5.02	-0.33
Picture Matching	-0.14	-0.14
Oral Reading Fluency (ORF)	-3.14	-0.14
ORF with Comprehension	-0.03	-0.02

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 2.3: Highest educational qualification upto Higher Secondary

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.05	-0.06
Phonological Awareness	-0.84	-0.29
Decoding Letters	-2.95	-0.30
Decoding Words	-3.59	-0.29
Decoding Non-words	-3.60	-0.23
Picture Matching	-0.20	-0.20
Oral Reading Fluency (ORF)	-7.59	-0.35
ORF with Comprehension	-0.32	-0.19

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 2.4: Technique used in assessing students: Observation (Never and Sometimes Vs. Most of the times and Almost Always)

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.22	0.25
Phonological Awareness	0.14	0.05
Decoding Letters	1.11	0.11
Decoding Words	1.22	0.10
Decoding Non-words	-1.49	-0.10
Picture Matching	0.29	0.29
Oral Reading Fluency (ORF)	-0.42	-0.02
ORF with Comprehension	0.18	0.11

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 2.5: Technique used in assessing students: Class
Test (Never and Sometimes Vs. Most of the times
and Almost Always)

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.03	-0.03
Phonological Awareness	-0.77	-0.26
Decoding Letters	1.00	0.10
Decoding Words	-2.78	-0.22
Decoding Non-words	-3.86	-0.25
Picture Matching	-0.17	-0.17
Oral Reading Fluency (ORF)	-3.54	-0.16
ORF with Comprehension	-0.32	-0.19

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 2.6: Technique used in assessing students: Group Activity (Never and Sometimes Vs. Most of the times and Almost Always)

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.03	0.03
Phonological Awareness	-0.33	-0.11
Decoding Letters	0.72	0.07
Decoding Words	-1.24	-0.10
Decoding Non-words	0.50	0.03
Picture Matching	0.02	0.02
Oral Reading Fluency (ORF)	-1.94	-0.09
ORF with Comprehension	0.00	0.00

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 2.7: Technique used in assessing students: Peer Work (Never and Sometimes Vs. Most of the times and Almost Always)

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.20	-0.22
Phonological Awareness	-0.61	-0.21
Decoding Letters	-0.69	-0.07
Decoding Words	-1.60	-0.13
Decoding Non-words	1.03	0.07
Picture Matching	-0.07	-0.07
Oral Reading Fluency (ORF)	-1.97	-0.09
ORF with Comprehension	-0.32	-0.19

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 2.8: Technique used in assessing students: Oral Work (Never and Sometimes Vs. Most of the times and Almost Always)

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.08	0.09
Phonological Awareness	0.38	0.13
Decoding Letters	0.18	0.02
Decoding Words	-0.09	-0.01
Decoding Non-words	3.98	0.26
Picture Matching	0.15	0.15
Oral Reading Fluency (ORF)	3.77	0.17
ORF with Comprehension	0.25	0.15

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 2.9: Maintain Teacher's Diary

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.13	0.15
Phonological Awareness	0.12	0.04
Decoding Letters	-0.06	-0.01
Decoding Words	-1.63	-0.13
Decoding Non-words	0.99	0.06
Picture Matching	0.13	0.13
Oral Reading Fluency (ORF)	6.91	0.32
ORF with Comprehension	-0.14	-0.08

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 2.10: Teacher's uses portfolio to assess the progress of the child

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.25	-0.28
Phonological Awareness	0.15	0.05
Decoding Letters	1.01	0.10
Decoding Words	1.63	0.13
Decoding Non-words	0.45	0.03
Picture Matching	0.12	0.12
Oral Reading Fluency (ORF)	5.24	0.24
ORF with Comprehension	0.19	0.11

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 2.11: Time taken to go to school upto 30 mins.

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.15	0.17
Phonological Awareness	-0.13	-0.04
Decoding Letters	-0.78	-0.08
Decoding Words	1.96	0.16
Decoding Non-words	2.06	0.13
Picture Matching	-0.10	-0.10
Oral Reading Fluency (ORF)	2.72	0.12
ORF with Comprehension	0.10	0.06

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

3. Association Results: School Profile

The given section details the information gathered about schools regarding various school related variables.

Table 3.1: School Infrastructure: Electricity and proper lighting

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.18	0.20
Phonological Awareness	-0.04	-0.01
Decoding Letters	3.00	0.30
Decoding Words	2.01	0.16
Decoding Non-words	3.03	0.20
Picture Matching	0.47	0.48
Oral Reading Fluency (ORF)	1.02	0.05
ORF with Comprehension	0.07	0.04

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.2: School Infrastructure: Fully functional toilet for girls

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.02	-0.02
Phonological Awareness	0.19	0.06
Decoding Letters	2.33	0.23
Decoding Words	3.80	0.31
Decoding Non-words	1.41	0.09
Picture Matching	0.20	0.20
Oral Reading Fluency (ORF)	7.24	0.33
ORF with Comprehension	0.13	0.08

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.3: School Infrastructure: Fully functional toilet for boys

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.17	0.19
Phonological Awareness	0.43	0.15
Decoding Letters	3.28	0.33
Decoding Words	3.74	0.30
Decoding Non-words	0.02	0.00
Picture Matching	0.33	0.34
Oral Reading Fluency (ORF)	3.34	0.15
ORF with Comprehension	0.24	0.14

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.4: School Infrastructure: Readily available medical room

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.03	0.03
Phonological Awareness	0.92	0.32
Decoding Letters	1.67	0.17
Decoding Words	4.63	0.37
Decoding Non-words	5.88	0.38
Picture Matching	0.14	0.14
Oral Reading Fluency (ORF)	9.71	0.45
ORF with Comprehension	0.48	0.28

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.5: School Infrastructure: Safe windows and openings for ventilation

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.11	0.12
Phonological Awareness	0.45	0.15
Decoding Letters	2.28	0.23
Decoding Words	4.15	0.33
Decoding Non-words	-2.05	-0.13
Picture Matching	0.63	0.64
Oral Reading Fluency (ORF)	4.50	0.20
ORF with Comprehension	0.19	0.11

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.6: School Facility: Basic Drinking Water

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.05	-0.06
Phonological Awareness	-0.18	-0.06
Decoding Letters	0.51	0.05
Decoding Words	-0.31	-0.02
Decoding Non-words	-1.10	-0.07
Picture Matching	0.04	0.04
Oral Reading Fluency (ORF)	-2.78	-0.13
ORF with Comprehension	-0.27	-0.16

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.7: School Facility: Basic hand washing facility

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.05	0.06
Phonological Awareness	1.66	0.58
Decoding Letters	0.05	0.00
Decoding Words	2.08	0.17
Decoding Non-words	3.93	0.26
Picture Matching	0.15	0.15
Oral Reading Fluency (ORF)	3.56	0.16
ORF with Comprehension	0.45	0.26

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.8: School Facility: Mid-day meals to the child on daily basis

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.06	0.07
Phonological Awareness	0.03	0.01
Decoding Letters	-1.45	-0.14
Decoding Words	-2.66	-0.21
Decoding Non-words	0.46	0.03
Picture Matching	-0.22	-0.22
Oral Reading Fluency (ORF)	1.32	0.06
ORF with Comprehension	-0.06	-0.03

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.9: School Facility: Primary Health Services

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.03	-0.03
Phonological Awareness	0.76	0.26
Decoding Letters	-0.03	0.00
Decoding Words	0.65	0.05
Decoding Non-words	-0.52	-0.03
Picture Matching	0.23	0.23
Oral Reading Fluency (ORF)	4.62	0.21
ORF with Comprehension	0.33	0.19

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.10: School Facility: Accessible infrastructure for students with disabilities

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.00	0.00
Phonological Awareness	0.21	0.07
Decoding Letters	-1.58	-0.16
Decoding Words	-1.07	-0.09
Decoding Non-words	-0.18	-0.01
Picture Matching	0.12	0.12
Oral Reading Fluency (ORF)	6.24	0.29
ORF with Comprehension	0.07	0.04

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.11: Health checkup not being done

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.03	-0.03
Phonological Awareness	-0.10	-0.03
Decoding Letters	0.68	0.07
Decoding Words	0.52	0.04
Decoding Non-words	1.99	0.13
Picture Matching	-0.26	-0.26
Oral Reading Fluency (ORF)	-5.06	-0.23
ORF with Comprehension	-0.43	-0.25

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.12: Classroom Equipment: Story Books

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.15	-0.17
Phonological Awareness	-0.01	0.00
Decoding Letters	0.80	0.08
Decoding Words	2.45	0.20
Decoding Non-words	2.86	0.19
Picture Matching	0.13	0.13
Oral Reading Fluency (ORF)	2.89	0.13
ORF with Comprehension	0.26	0.15

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.13: Classroom Equipment: Toys/ Play equipment

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.06	0.07
Phonological Awareness	0.43	0.15
Decoding Letters	-0.29	-0.03
Decoding Words	-0.30	-0.02
Decoding Non-words	2.62	0.17
Picture Matching	0.44	0.45
Oral Reading Fluency (ORF)	-3.19	-0.15
ORF with Comprehension	0.23	0.13

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.14: Classroom Equipment: Computers

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.12	0.13
Phonological Awareness	0.79	0.27
Decoding Letters	2.08	0.21
Decoding Words	2.27	0.18
Decoding Non-words	2.25	0.15
Picture Matching	0.44	0.46
Oral Reading Fluency (ORF)	-0.96	-0.04
ORF with Comprehension	0.36	0.21

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

Table 3.15: Classroom Equipment: Internet access

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.19	0.21
Phonological Awareness	0.83	0.28
Decoding Letters	2.20	0.22
Decoding Words	4.57	0.37
Decoding Non-words	4.23	0.28
Picture Matching	0.41	0.42
Oral Reading Fluency (ORF)	0.73	0.03
ORF with Comprehension	0.23	0.13

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

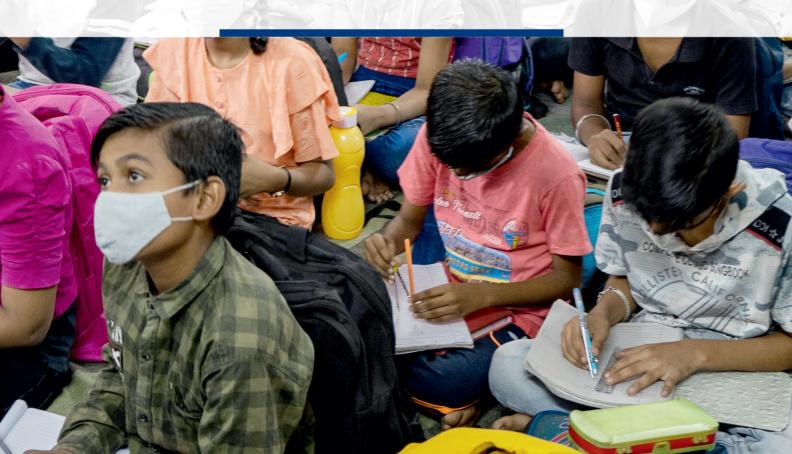
Table 3.16: Classroom Equipment: Textbooks/reading materials

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.08	0.09
Phonological Awareness	1.05	0.36
Decoding Letters	-1.79	-0.18
Decoding Words	-1.44	-0.11
Decoding Non-words	5.61	0.36
Picture Matching	0.23	0.23
Oral Reading Fluency (ORF)	-5.43	-0.25
ORF with Comprehension	0.02	0.01

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.



Foundational Numeracy



Foundational Numeracy

Foundational Numeracy skills comprise of the ability to understand numbers, perform basic operations with numbers and apply the understanding of patterns and numbers in real life situations. In the Foundational Learning Study, foundational Numeracy has been assessed through different sub-task as explained below:

Subtasks Assessed in Foundational Numeracy

Subtask	Description of the subtask
Number identification	Identifying and reading aloud 24 distinct numbers presented in the form of a grid (up to 9999)
Number discrimination	Comparing 14 pairs of numbers to identify the bigger number
Number operation (addition and subtraction)	Completing 4 Addition and 4 Subtraction facts
Word problems (addition and subtraction)	Solving 6 word problems based on the operation of addition and subtraction
Number operations (Division and Multiplication)	Constructing and using 4 multiplication facts (tables) of numbers 2 to 10 and using 4 division fact.
Measurement	Solving 6 problems based on measurement and estimation of volume, length, time using standard and non-standard units
Fractions	Answering 6 problems based on identification and representation of fraction values of half, one-fourth, three-fourth of a whole and of a collection of 12 objects.
Patterns	Identifying and extending & patterns comprising of numbers and shapes
Data Handling	Reading simple display of data and answering 6 questions based on the data display.



Number Identification

The task was based on recognising and reading aloud numbers (up to 9999).

On average students read 19 numbers correctly.

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Reads numbers up to 9999	65	64
Reads numbers up to 999	26	24
Reads numbers up to 99	8	11
Does not respond	1	2

Average Score in Number Identification (on a scale of 0 to 24)





Number Discrimination

The task comprised of comparing pairs of numbers to identify the bigger number.

On average students identified 12 numbers correctly.

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Discriminates numbers up to 9999	71	67
Discriminates numbers up to 999	24	23
Discriminates numbers up to 99	4	8
Discriminates numbers only up to 9	1	2

Average Score in Number Discrimination (on a scale of 0 to 14)





Number Operation (Addition and Subtraction)

The task was based on completing addition and subtraction facts.

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Adds numbers upto 999	52	53
Adds numbers upto 99	72	71
Adds numbers upto 9	95	92
Subtracts numbers upto 999	44	40
Subtracts numbers upto 99	61	62
Subtracts numbers upto 9	83	81

Percentage of Students UsedStrategies to Solve the questions

	State Average Performance (%)	National Average Performance (%)
Finger/tick marks	14	15
Paper and pencil	80	77
Mental calculation	6	8

Average Score in Number Operation (Addition and Subtraction) (on a scale of 0 to 8)





Number Operation (Word Problems)

The task was based on solving word problems based on the operation of addition and subtraction.

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Identifies the application of operation of addition in real life situations and provides the correct answer for questions based on addition only	57	54
Identifies the application of operation of subtraction in real life situations and provides the correct answer for questions based on subtraction only	46	42
Identifies the application of number operations in real life situations and provides the correct answers for 80% and above questions	57	52

Percentage of Students UsedStrategies to Solve the Questions

	State Average Performance (%)	National Average Performance (%)
Finger/tick marks	15	16
Paper and pencil	75	71
Mental calculation	10	13

► Average Score in Number Operation (word problems) (on a scale of 0 to 6)





Number Operation (Multiplication)

The task was based on Constructing and using multiplication facts (tables) of numbers 2 to 10 and using division facts

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Understands and applies correct multiplication facts in 80% and above questions	60	71
Understands and applies correct multiplication facts in 50% and less than 80% questions	19	16
Understands and applies correct multiplication facts in less than 50% questions	11	6
Does not respond	10	8

▶ Average Score in Number Operation (Multiplication) (on a scale of 0 to 4)





Number Operation (Division)

The task was based on Constructing and using multiplication facts (tables) of numbers 2 to 10 and using division facts.

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Understands and applies correct Division facts in 80% and above questions	36	49
Understands and applies correct Division facts in 50% and less than 80% questions	30	31
Understands and applies correct Division facts in less than 50% questions	10	6
Does not respond	24	14

Average Score in Number Operation (Division) (on a scale of 0 to 4)





Measurement (Calendar Reading)

The task comprised of solving word problems based on measurement and estimation of volume, length and time using standard and non-standard units

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Identifies the Month, Date and Day on the Calender	68	62
Identifies the month, date and day with help	21	20
Make mistakes in identifying the Month, date and day	4	6
Dose not respond	7	12

Average Score in Measurement (Calendar Reading) (on a scale of 0 to 3)





Measurement (Volume)

The task comprised of solving word problems based on measurement and estimation of volume, length and time using standard and non-standard units

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Can compare and estimate the volume of different containers	53	46
Can either compare or estimate the volume of different containers	38	47
Attempts but makes mistakes in estimating and comparing the volume	4	3
Dose not respond	5	4

▶ Average Score in Measurement (Volume) (on a scale of 0 to 3)





Measurement (Time on clock)

The task comprised of solving word problems based on measurement and estimation of volume, length and time using standard and non-standard units

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Tells the time correctly	57	52
Tells the time correctly with the help of hint	31	36
Dose not respond	12	12

Average Score in Measurement (Time on Clock) (on a scale of 0 to 3)





Measurement (Length)

The task comprised of solving word problems based on measurement and estimation of volume, length and time using standard and non-standard units

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Applies the understanding of measurement of length and calculates the length of the object	58	62
Applies the understanding of measurement of length but miscalculates the length of the object when the object is not aligned with the 0 of the scale	32	27
Makes effort but not able to calculate the length of the object	6	6
Dose not respond	4	4

Average Score in Measurement (Length) (on a scale of 0 to 3)





▶ Fractions

The task was based on identifying and representing fraction values of half, one-fourth, three-fourth of a whole and in a collection of 12 objects.

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
correctly identifies one-half	76	70
correctly identifies one-fourth	58	47
correctly identifies three-fourth	69	61
correctly identifies all the fractions (one-half, one-fourth, three-fourth)	52	42
correctly represents one-half	76	68
correctly represents one-fourth	64	55
correctly represents three-fourth	56	46
correctly represents all the fractions (one-half, one-fourth, three-fourth)	50	40

Average Score in Fractions (on a scale of 0 to 6)





Pattern

The task comprised of identifying and extending patterns comprising of numbers and shapes.

Percentage of Students

Descriptor	State Average Performance (%)	National Average Performance (%)
Correctly identifies and completes patterns with shapes and numbers in 80% and above questions	62	61
Correctly identifies and completes patterns with shapes and numbers in 50% to less than 80% questions	30	28
Correctly identifies and completes patterns with shapes and numbers in less than 50% questions	6	8
Dose not respond	3	2

Average Score in Pattern (on a scale of 0 to 8)





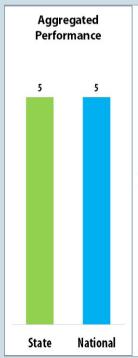
Data Handling

The task was based on reading simple display of data and answering questions based on the data display. On average students answered 5 questions correctly based on data display.

Percentage of Students

•	Descriptor	State Average Performance (%)	National Average Performance (%)
	Answers 80% and above questions correctly	76	70
	Answers 50% - less than 80% questions correctly	18	23
	Answers less than 50% questions correctly	4	5
	Answers less than 50% questions correctly	1	2

Average Score in Data Handing (on a scale of 0 to 6)

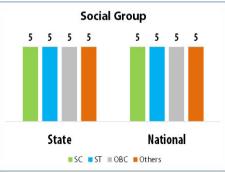




■ Rural ■ Urban

National





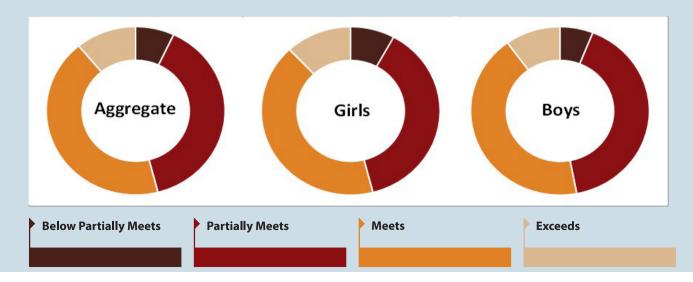
State



Benchmark of Numeracy and Student Performance

Global Proficiency Levels		Below Partially Meets Global Minimum Proficiency	Partially Meets Global Minimum Proficiency	Meets Global Minimum Proficiency	Exceeds Global Minimum Proficiency
Definition		Learners lack the most basic knowledge and skills. As a result, they generally cannot complete the most basic grade-level tasks.	Learners have limited knowledge and skills. As a result, they can partially complete basic grade-level tasks.	Learners have developed sufficient knowledge and skill. As a result, they can successfully complete the most basic grade-level tasks.	Learners have developed superior knowledge and skill. As a result, they can complete complex grade-level tasks.
Benchmark		0 - 42 Score Points.	43 - 69 70 - 83 Score Points Score Points		84 and above Score Points
Percentage State/UT		7	39	43	11
of Students meeting the standard	National	11	37	42	10
Percentage of	Julie, oi		38	42	12
Girls meeting the standard National 11		11	38	41	10
Percentage of Boys meeting the	State/UT	6	41	43	10
standard	National	11	36	43	10

Distribution of Students by Global Proficiency Levels in the State/UT (In percentage)





Association of Background Variables with Numeracy

The relationship between learning achievement of students and variables related to student's home background and school were analyzed by using different statistical technique. This chapter discusses the association of the different contextual variables with the achievements of the students.

Numeracy score is a combined score including all subtasks and has a scale of 0 to 86.

1. Association Results: Student Profile

The given section details the association results regarding various student related variables.

Numeracy	Difference between mean score	Sig.*
Language spoken by students at home is the same as medium of instruction	-0.08	-0.01
Attended pre-primary Classes/Anganwadi	0.03	0.01
Ask questions in the class	0.31	0.06
Reads other materials in addition to textbooks	0.09	0.02
Playing Game	-0.13	-0.02
Story telling with family members	-0.17	-0.03
Playing Game with family members	-0.04	-0.01
Time taken to go to school upto 30 mins.	-0.20	-0.04
Time taken to go to school upto more than 30 mins.	0.20	0.04

A value of 0.2 represents a small effect size.
 A value of 0.5 represents a medium effect size.
 A value of 0.8 represents a large effect size.

2. Association Results: Teacher Profile

The given section details the association results regarding various teacher related variables.

Numeracy	Difference between mean score	Sig.*
Teaching at Foundational stage: less than 3 years/more than 3 years	-0.13	-0.02
Attend any in-service workshop/Training to understand the learning needs and other developmental aspects in young children	-0.12	-0.02
Highest educational qualification upto Higher Secondary	-0.73	-0.14
Technique used in assessing students: Observation (Never and Sometimes Vs. Most of the times and Almost Always)	0.06	0.01
Technique used in assessing students: Class Test (Never and Sometimes Vs. Most of the times and Almost Always)	0.01	0.00
Technique used in assessing students: Group Activity (Never and Sometimes Vs. Most of the times and Almost Always)	-0.10	-0.02
Technique used in assessing students: Peer Work (Never and Sometimes Vs. Most of the times and Almost Always)	-0.28	-0.05
Technique used in assessing students: Oral Work (Never and Sometimes Vs. Most of the times and Almost Always)	0.06	0.01
Maintain Teacher's Diary	-0.13	-0.02
Teacher's uses portfolio to assess the progress of the child	0.28	0.05
Time taken to go to school upto 30 mins.	0.15	0.03

^{*} A value of 0.2 represents a small effect size. A value of 0.5 represents a medium effect size. A value of 0.8 represents a large effect size.

3. Association Results: School Profile

The given section details the information gathered about schools regarding various school related variables.

Numeracy	Difference between mean score	Sig.*
School Infrastructure: Electricity and proper lighting	0.30	0.06
School Infrastructure: Fully functional toilet for girls	0.27	0.05
School Infrastructure: Fully functional toilet for boys	0.54	0.10
School Infrastructure: Readily available medical room	0.61	0.11
School Infrastructure: Safe windows and openings for ventilation	0.52	0.10
School Facility: Basic Drinking Water	0.03	0.01
School Facility: Basic hand washing facility	0.43	0.08
School Facility: Mid-day meals to the child on daily basis	-0.25	-0.05
School Facility: Primary Health Services	0.47	0.09
School Facility: Accessible infrastructure for students with disabilities	0.11	0.02
Health checkup not being done	-0.14	-0.03
Classroom Equipment : Story Books	0.29	0.05
Classroom Equipment : Toys/ Play equipment	0.19	0.04
Classroom Equipment : Computers	0.44	0.08
Classroom Equipment: Internet access	0.62	0.12
Classroom Equipment : Textbooks/reading materials	0.06	0.01

A value of 0.2 represents a small effect size.
 A value of 0.5 represents a medium effect size.
 A value of 0.8 represents a large effect size.



Profiling of Backgrounds Variables





Student Demographic Profile

The FLS conducted on grade 3 students revealed that

59% students belong to the age group of 7-8 years.

65% students belong to families living BPL. 83% students have attended pre-primary school/ Anganwadi centre.

Activities that family members do	Percent	age of Students	(State)	Percentage of Students (National)			
with the children	Rarely	Sometimes	Often	Rarely	Sometimes	Often	
Reading Books	21	55	24	24	55	21	
Playing with toys	25	56	19	28	54	18	
playing games	18	53	29	21	54	25	
Outdoor activities like picnic etc.	24	67	9	21	64	15	
Art and craft	39	52	9	30	56	14	
Oral story telling	20	58	21	23	57	20	

Activities children like to do	Percentage of Students (State)	Percentage of Students (National)
Art and Craft	87	91
Reading books (other than textbooks)	65	82
Playing with toys	87	85
Playing games	91	93
Exercise (Yoga etc.)	65	70
Looking after plants or/and animals	80	85

Mode of commuting to school	Percentage of Students (State)	Percentage of Students (National)
On foot	68	55
Bicycle	10	8
Public Transport (Bus/Train/Metro)	5	7
School provides transport	5	9
Own transport Two/three-wheeler	8	18
Own transport Four-wheeler	5	3



Teacher Demographic and Professional Profile

85%

teachers shared that they have attended/ received some in-service workshop/training in last 3 years. **78%**

teachers shared that they are aware of the NIPUN Bharat Lakshyas and Learning Outcomes (LOs).

95%

teachers reported that they teach in classrooms that are properly ventilated. 81%

teachers use portfolio to assess the progress of the child.

Infrastructure and resource used by		Percentage of Teachers (State)				Percentage of Teachers (National)			
the teacher	Never	Once a week	Everyday	Not Available	Never	Once a week	Everyday	Not Available	
Spacious classrooms	7	25	60	9	3	17	73	7	
Classroom with access to additional space	13	56	13	18	6	48	37	9	
Space in Veranda/Corridor	20	41	24	14	17	46	27	10	
Library	36	32	2	30	14	60	15	12	
Hall	33	26	5	37	18	45	16	21	
Play ground	11	46	34	10	8	47	36	9	
Smart classroom	34	17	8	41	20	33	19	28	



		Percentage of Teachers (State)				Percentage of Teachers (National)			
Assessment techniques use by the teachers	Never	Sometime	Most of the time	Almost always	Never	Sometime	Most of the time	Almost always	
Observations	2	40	42	17	7	13	39	41	
Class test (paper-pencil)	1	25	60	15	1	21	49	30	
Group activities	5	68	21	6	2	37	44	18	
Peer work	7	64	24	6	2	40	40	18	
Oral work	2	42	43	13	2	20	41	37	

Educational Qualification	Percentage of Teachers (State)	Percentage of Teachers (National)
Higher Secondary	14	20
Graduation	57	45
M.Phil./Ph.D.	5	9
Post-Graduation	24	26

Teaching Experience at the foundational stage	Percentage of Teachers (State)	Percentage of Teachers (National)
Less the a year	2	9
1-3 years	17	24
5 years	14	11
More than 5 years	66	56

Teaching learning material used in the	Percentage of Teachers (State)			Percentage of Teachers (National)				
classroom at the foundational stage	Not available	Never	Sometime	Most of the time	Not available	Never	Sometime	Most of the time
Black Board	4	0	14	82	3	1	8	88
Text book(s)	2	0	14	84	1	1	12	86
Story Books	10	3	72	15	3	2	63	32
Toys	18	7	61	15	10	5	64	22
Play equipment	15	3	66	16	6	2	63	28
Locally available material	7	1	74	19	7	2	54	37
Computer resources (Audio visual aid)	56	10	28	7	28	6	40	27
Library resources	51	6	33	9	14	3	51	31



School Profile

84% schools have access to basic hand washing facility. **52%** schools have preprimary school/Anganwadi.

66% schools conduct health checkup of students once every year.

38% schools have accessible infrastructure for students with disabilities.

20% schools have a readily available medical room.

Resources used in the classrooms at the Foundational Stage	Percentage of Schools (State)	Percentage of Schools (National)
Story Books	55	89
Toys/Play equipment	66	84
Locally available/developed Teaching Learning Materials	75	88
Computers	37	63
Internet access	28	56
Electricity and proper lighting	75	91
Safe windows and opening for ventilation	95	97
Textbooks/reading materials	94	97



Source of drinking water for school	Percentage of Schools (State)	Percentage of Schools (National)
None	38	31
Well water	22	20
Hand pump	12	34
Тар	47	81
Rain water tank	40	20

School Managing Committee and Parent-Teacher Meeting (PTM)	Percentage of Schools (State)	Percentage of Schools (National)
Presence of school Managing Committee in the school	95	95
PTM held every month	22	52
PTM held every 3 months	51	56
PTM held every 6 months	62	42
PTM not been held/organised	20	17

Community support to the school	Percentage of Schools (State)	Percentage of Schools (National)
Providing infrastructure when required	54	67
Providing different usable resources when required	64	70
Providing resource persons for different purposes	59	68
Cooperating with school for awareness drives (cleanliness, enrollment etc.	89	88
There is not much involvement of the community	31	37



Language used at Home and in School

69%

students' home language is the same as the medium of instruction in the school. **66%**

Language used by the teacher in the classroom is the same as the medium of instruction in the school.

67%

language of instruction in school at the foundational stage is the same as the medium of instruction in the school. **32%**

teachers' home language is same as the medium of instruction in the school.

FLS 2022 Team

Core Team

Ministry of Education

Smt. Anita Karwal, Secretary, Department of School Education & Literacy

Shri Vipin Kumar, Joint Secretary, DoSEL, Ministry of Education w.e.f. 26.05.2022

Shri Maneesh Garg, Joint Secretary, DoSEL, Ministry of Education upto 25.05.2022

Shri Venkatramana R. Hegde, Deputy Director General (DDG), Statistics Bureau

Mrs. Rashi Sharma, Director, Department of School Education and Literacy, MoE

Shri J. P. Pandey, Director, DoSEL, Ministry of Education

Shri Saba Akhtar, Scientist-F, NIC

Shri Sagar Choudhary, Assistant Director, Statistics Bureau

Shri Prabhat Mishra, Scientist-C, NIC

Ms. Tara Naorem, Chief Consultant, MoE

Ms. Purabi Pattanayak, Chief Consultant, MoE

NCERT

Prof. (Dr.) Dinesh Prasad Saklani, Director, NCERT

Prof. (Dr.) Sridhar Srivastava, Joint Director, NCERT

Prof. (Dr.) Indrani Bhaduri, HoD, ESD and NAS Cell, NCERT

Prof. (Dr.) Suniti Sanwal, HoD, DEE, NCERT

Other Institute/Organization

UNICEF

SPDs; Director SCERTs; Principal SIEs

Principal Coordinator				
NCERT	МоЕ			
Prof. (Dr.) Indrani Bhaduri Head, Educational Survey Division & Head NAS Cell, NCERT	Mrs. Rashi Sharma Director, Department of School Education and Literacy, MoE			

Technical Support

Dr. Kavita Ghosh, Senior Consultant

Dr. Meena Yadav, Senior Consultant

Ms. Bhaswati De, Data Manager

Mr. Puneet Bhola, Data Manager

Ms. Alankita Upadhyaya, Consultant

Mr. Sajid Khalil, Senior Graphic Designer

