

NCERT NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING



Ministry of Education Government of India

सत्यमेव जयते

FLS 2022

Foundational **Learning Study**

District Report

MUKTSAR (Punjab)





District Report Muktsar (Punjab)

FLS 2022 Foundational Learning Study

District Report for Low Performing Districts (LPD) **Muktsar (Punjab)**

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र्ग आज़ादी_{का} अमृत महोत्सव

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



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अन्नपूर्णा देवी ANNPURNA DEVI



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.

Ampune



⁽ANNPURNA DEVI)



अनीता करवल, भा.प्र.से सचिव

Anita Karwal, IAS Secretary



स्कूल शिक्षा और साक्षरता विभाग शिक्षा मंत्रालय मारत 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.

nita Karwal)

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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



Students

905

Educational Profile of The District



561 Total number of schools with grade 3



3,105

Total number of teachers in primary grades



14,414 Total enrollment in grade 3

Source: U-DISE+, 2020-21

Foundational Literacy

6

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G

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a

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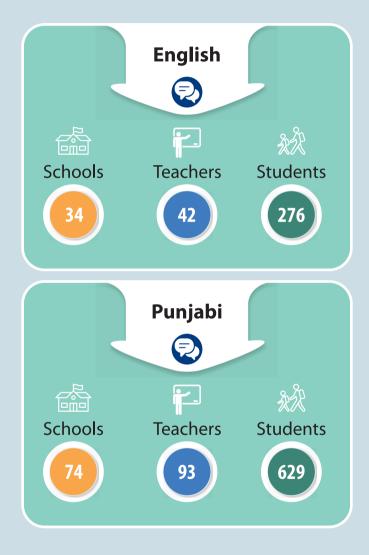
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Foundational Learning Study 2022 Languages Assessed in the District

Muktsar



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)

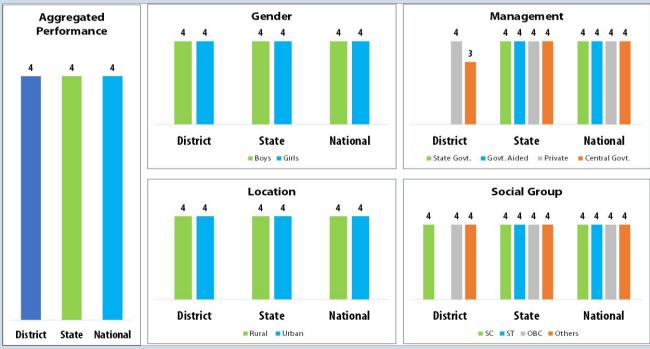
The task comprised of listening to different texts (Comprising 1 sentence, 2 sentences and 3 sentences) and matching the content of each of the texts with the given pictures.

Percentage of Students

Descriptor		State Average Performance (%)
Listens and Comprehends four to five texts of varying lengths correctly	76	81

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	District Average Performance (%)	State Average Performance (%)
Correctly identifies at least one initial sound in grade level words	96	97
Correctly identifies at least one final sound in grade level words	96	94
Not able to identify the initial sound and final sound in any of the given grade level words	3	3

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	District Average Performance (%)	State Average Performance (%)
Reads 80-100 letters correctly and fluently	98	97
Reads 50-79 letters correctly/reads some letters with self correction	2	2
Reads 10-49 letters correctly/hesitantly with self correction	0	0
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.

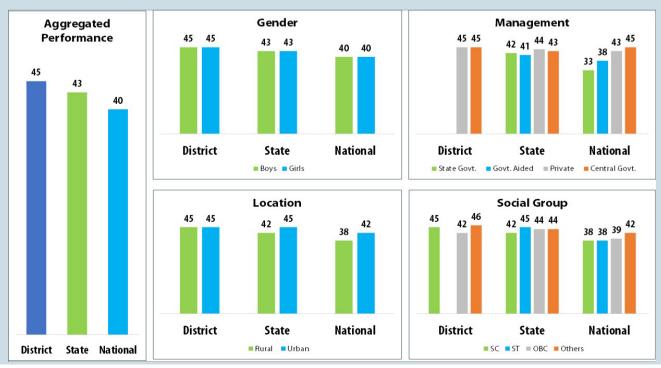
On average students can read 45 words correctly.

Percentage of Students

Descriptor	District Average Performance (%)	State Average Performance (%)
Reads 80% and more words correctly and fluently	84	78
Reads 50% to Less than 80% words correctly (with self correction wherever needed)	13	17
eads 10% to less than 50% words correctly (with self correction /herever needed)	3	3
Reads less than 10% words correctly (with self correction wherever needed)	0	2

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	The task was based on
identifying each symbol's (akshara or	reading aloud 50 non-
letter) sound	words.

On average students can read 42 non-words correctly.

Percentage of Students

Descriptor	District Average Performance (%)	State Average Performance (%)
Reads 80% and more words correctly and fluently	70	68
Reads 50% to Less than 80% words correctly (with self correction wherever needed)	22	22
eads 10% to less than 50% words correctly (with self correction wherever needed)	4	6
Reads less than 10% words correctly (with self correction wherever needed)	3	3

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





Picture Matching

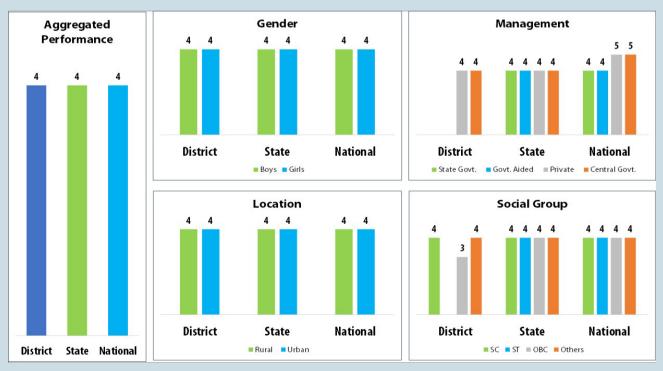
The ability to understand the meaning of written text

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	District Average Performance (%)	
Reads and Comprehends four to five texts of varying lengths correctly	81	79

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

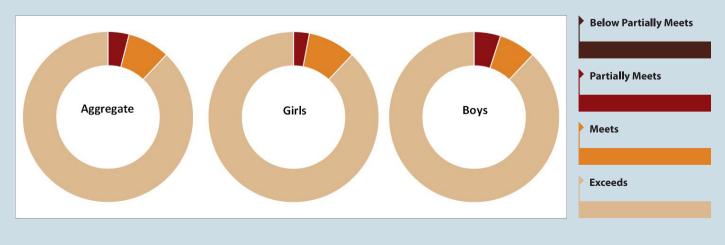




Benchmark of ORF with Comprehension and Student Performance

Global Proficiancy 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 - 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	District	0	4	8	88
of Students meeting the State/ standard	State/UT	4	30	19	47
Percentage of	District	0	3	9	88
Girls meeting the standard	State/UT	4	30	17	49
Percentage of	District	0	5	7	88
Boys meeting the standard	State/UT	4	30	21	45

Distribution of Students by Global Proficiency Levels in the District (In percentage)





Oral Language Comprehension

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

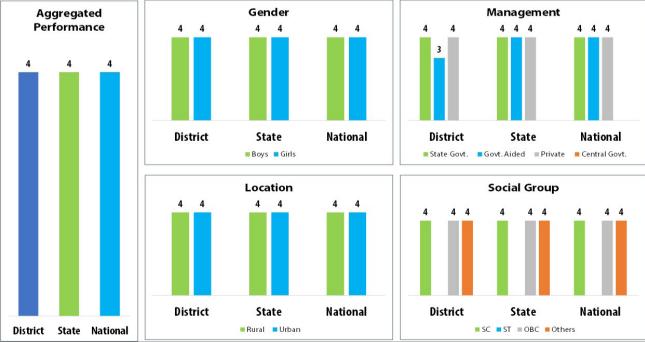
The task comprised of listening to different texts (Comprising 1 sentence, 2 sentences and 3 sentences) and matching the content of each of the texts with the given pictures.

Percentage of Students

Descriptor	District Average Performance (%)	State Average Performance (%)
Listens and Comprehends four to five texts of varying lengths correctly	86	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	District Average Performance (%)	State Average Performance (%)
Correctly identifies at least one initial sound in grade level words	97	96
Correctly identifies at least one final sound in grade level words	94	94
Not able to identify the initial sound and final sound in any of the given grade level words	3	3

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	District Average Performance (%)	State Average Performance (%)
Reads 80-100 letters correctly and fluently	89	88
Reads 50-79 letters correctly/reads some letters with self correction	9	7
Reads 10-49 letters correctly/hesitantly with self correction	1	3
Reads less than 10 letters correctly/hesitantly with self correction	1	2

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 44 words correctly.

Percentage of Students

Descriptor	District Average Performance (%)	State Average Performance (%)
Reads 80% and more words correctly and fluently	85	80
Reads 50% to Less than 80% words correctly (with self correction wherever needed)	10	12
Reads 10% to less than 50% words correctly (with self correction vherever needed)	3	4
Reads less than 10% words correctly (with self correction wherever needed)	2	4

Average Score in Decoding of Common, Isolated Words

(on a scale of 0 to 50)





Decoding Non-Words

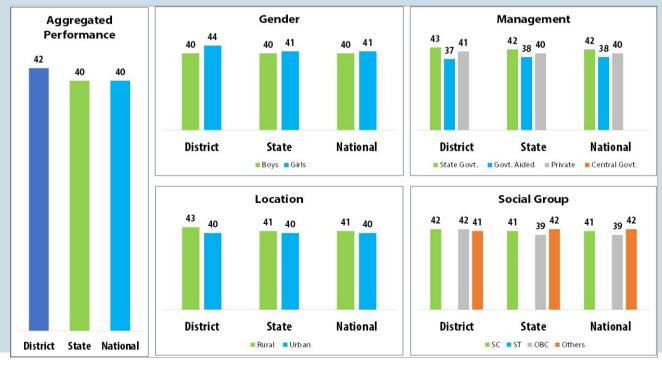
the ability to sound out non-words by	The task was based on
identifying each symbol's (akshara or	reading aloud 50 non-
letter) sound	words.

On average students can read 42 non-words correctly.

Percentage of Students

Descriptor	District Average Performance (%)	State Average Performance (%)
Reads 80% and more words correctly and fluently	78	72
Reads 50% to Less than 80% words correctly (with self correction wherever needed)	15	18
Reads 10% to less than 50% words correctly (with self correction wherever needed)	4	4
Reads less than 10% words correctly (with self correction wherever needed)	3	6

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





Picture Matching

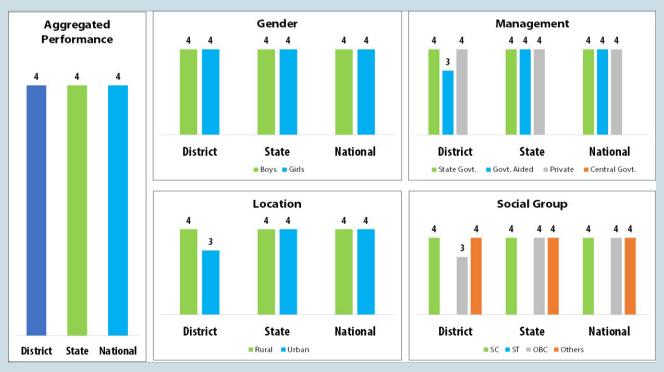
The ability to understand the meaning of written text

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	District Average Performance (%)	State Average Performance (%)
Reads and Comprehends four to five texts of varying lengths correctly	77	78

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

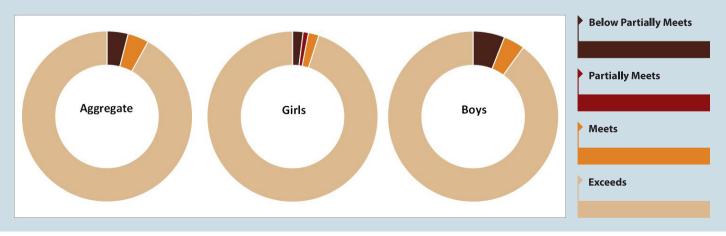




Benchmark of ORF with Comprehension and Student Performance

Global Proficiano	cy 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.
Benchmai	rk	0 - 12 correctly read words with comprehension in one minute.	13 - 31 correctly read words with comprehension in one minute.	32 - 55 correctly read words with comprehension in one minute.	56 and above correctly read words with comprehension in one minute.
Percentage	District	4	0	4	92
of Students meeting the standard	State/UT	6	23	20	51
Percentage of	District	2	1	2	95
Girls meeting the standard	State/UT	6	19	21	54
Percentage of	District	6	0	4	90
Boys meeting the standard	State/UT	б	26	21	47

Distribution of Students by Global Proficiency Levels in the District (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.

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.14	0.16
Phonological Awareness	1.60	0.66
Decoding Letters	3.15	0.29
Decoding Words	9.43	0.98
Decoding Non-words	10.07	0.99
Picture Matching	0.38	0.45
Oral Reading Fluency (ORF)	17.65	1.10
ORF with Comprehension	1.76	1.43

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	0.12	0.13
Phonological Awareness	0.62	0.24
Decoding Letters	-0.34	-0.03
Decoding Words	1.65	0.16
Decoding Non-words	1.29	0.11
Picture Matching	0.22	0.26
Oral Reading Fluency (ORF)	3.45	0.19
ORF with Comprehension	0.31	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 1.3: Ask questions in the class

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.00	0.00
Phonological Awareness	0.15	0.06
Decoding Letters	3.18	0.29
Decoding Words	2.20	0.21
Decoding Non-words	-0.51	-0.05
Picture Matching	0.16	0.19
Oral Reading Fluency (ORF)	5.30	0.29
ORF with Comprehension	0.79	0.53

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	0.33	0.37
Phonological Awareness	0.84	0.33
Decoding Letters	1.86	0.17
Decoding Words	3.74	0.35
Decoding Non-words	2.38	0.21
Picture Matching	0.38	0.45
Oral Reading Fluency (ORF)	6.52	0.36
ORF with Comprehension	0.98	0.66

* 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	0.54	0.60
Phonological Awareness	1.62	0.64
Decoding Letters	10.47	0.96
Decoding Words	0.72	0.07
Decoding Non-words	1.62	0.14
Picture Matching	0.96	1.15
Oral Reading Fluency (ORF)	14.92	0.82
ORF with Comprehension	0.80	0.53

* 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	-0.22	-0.25
Phonological Awareness	-0.65	-0.25
Decoding Letters	-1.20	-0.11
Decoding Words	0.45	0.04
Decoding Non-words	-1.37	-0.12
Picture Matching	0.00	0.00
Oral Reading Fluency (ORF)	-2.43	-0.13
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.

Table 1.7: Playing Game with family members

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.05	-0.06
Phonological Awareness	-0.11	-0.04
Decoding Letters	-0.37	-0.03
Decoding Words	0.70	0.07
Decoding Non-words	0.55	0.05
Picture Matching	0.03	0.04
Oral Reading Fluency (ORF)	4.12	0.23
ORF with Comprehension	0.56	0.37

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	-0.49	-0.55
Phonological Awareness	-1.15	-0.45
Decoding Letters	-5.15	-0.46
Decoding Words	-6.70	-0.63
Decoding Non-words	-7.46	-0.66
Picture Matching	-0.21	-0.25
Oral Reading Fluency (ORF)	-10.01	-0.55
ORF with Comprehension	-1.14	-0.76

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	0.49	0.55
Phonological Awareness	1.15	0.45
Decoding Letters	5.15	0.46
Decoding Words	6.70	0.63
Decoding Non-words	7.46	0.66
Picture Matching	0.21	0.25
Oral Reading Fluency (ORF)	10.01	0.55
ORF with Comprehension	1.14	0.76

* 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 year	Table 2.1: T	eaching at	Foundational s	tage: less than 3	years/more than 3	vears
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Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.11	0.12
Phonological Awareness	0.23	0.09
Decoding Letters	-1.78	-0.16
Decoding Words	-0.51	-0.05
Decoding Non-words	0.31	0.03
Picture Matching	-0.23	-0.27
Oral Reading Fluency (ORF)	-2.48	-0.14
ORF with Comprehension	-0.14	-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 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	0.25	0.28
Phonological Awareness	-0.02	-0.01
Decoding Letters	-0.80	-0.07
Decoding Words	0.69	0.06
Decoding Non-words	0.38	0.03
Picture Matching	0.07	0.08
Oral Reading Fluency (ORF)	-2.66	-0.15
ORF with Comprehension	0.07	0.05

* 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

S	e	co	n	d	а	r١

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.01	0.01
Phonological Awareness	0.69	0.27
Decoding Letters	3.49	0.31
Decoding Words	5.26	0.50
Decoding Non-words	3.91	0.35
Picture Matching	0.24	0.28
Oral Reading Fluency (ORF)	10.73	0.59
ORF with Comprehension	0.70	0.47

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	-0.05	-0.06
Phonological Awareness	1.21	0.48
Decoding Letters	1.74	0.16
Decoding Words	3.89	0.37
Decoding Non-words	5.44	0.49
Picture Matching	-0.02	-0.02
Oral Reading Fluency (ORF)	5.96	0.33
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 2.5: Technique used in assessing students : ClassTest (Never and Sometimes Vs. Most of the times
and Almost Always)

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.27	0.30
Phonological Awareness	-0.04	-0.02
Decoding Letters	-2.72	-0.25
Decoding Words	-2.54	-0.24
Decoding Non-words	-0.11	-0.01
Picture Matching	-0.08	-0.09
Oral Reading Fluency (ORF)	-3.65	-0.20
ORF with Comprehension	0.55	0.37

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	0.47	0.54
Phonological Awareness	2.06	0.87
Decoding Letters	4.69	0.43
Decoding Words	6.51	0.64
Decoding Non-words	7.84	0.73
Picture Matching	0.40	0.48
Oral Reading Fluency (ORF)	12.66	0.73
ORF with Comprehension	0.90	0.62

* 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	0.35	0.39
Phonological Awareness	-0.08	-0.03
Decoding Letters	-1.38	-0.12
Decoding Words	-0.28	-0.03
Decoding Non-words	3.22	0.29
Picture Matching	0.32	0.38
Oral Reading Fluency (ORF)	-2.54	-0.14
ORF with Comprehension	0.28	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	0.71	0.81
Phonological Awareness	0.44	0.17
Decoding Letters	-0.92	-0.08
Decoding Words	3.08	0.29
Decoding Non-words	5.90	0.53
Picture Matching	0.39	0.46
Oral Reading Fluency (ORF)	3.35	0.18
ORF with Comprehension	0.56	0.37

* 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	1.59	0.09
Phonological Awareness	-0.39	-0.04
Decoding Letters	2.28	0.13
Decoding Words	4.75	0.40
Decoding Non-words	-5.60	-0.37
Picture Matching	2.42	0.21
Oral Reading Fluency (ORF)	2.26	0.14
ORF with Comprehension	0.68	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 2.10: Teacher's uses portfolio to assess the progress of the child

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.28	0.31
Phonological Awareness	2.53	1.05
Decoding Letters	2.86	0.26
Decoding Words	8.95	0.88
Decoding Non-words	10.82	1.01
Picture Matching	0.05	0.06
Oral Reading Fluency (ORF)	9.98	0.55
ORF with Comprehension	0.94	0.63

* 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	0.30	0.34
Phonological Awareness	0.86	0.34
Decoding Letters	1.71	0.15
Decoding Words	3.33	0.32
Decoding Non-words	3.29	0.29
Picture Matching	0.15	0.18
Oral Reading Fluency (ORF)	10.32	0.58
ORF with Comprehension	1.14	0.81

* 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 light
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Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.34	0.38
Phonological Awareness	0.14	0.05
Decoding Letters	-5.75	-0.52
Decoding Words	-2.17	-0.20
Decoding Non-words	3.27	0.29
Picture Matching	0.17	0.20
Oral Reading Fluency (ORF)	7.28	0.40
ORF with Comprehension	1.28	0.86

* 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	0.00	0.00
Phonological Awareness	-0.87	-0.34
Decoding Letters	-3.29	-0.30
Decoding Words	-7.58	-0.71
Decoding Non-words	-7.00	-0.62
Picture Matching	-0.19	-0.22
Oral Reading Fluency (ORF)	-11.32	-0.62
ORF with Comprehension	-1.10	-0.73

* 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	-0.28	-0.31
Phonological Awareness	-0.58	-0.23
Decoding Letters	-3.02	-0.27
Decoding Words	-5.47	-0.52
Decoding Non-words	-1.94	-0.17
Picture Matching	0.07	0.08
Oral Reading Fluency (ORF)	-5.43	-0.30
ORF with Comprehension	-0.88	-0.58

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	0.31	0.35
Phonological Awareness	1.03	0.41
Decoding Letters	2.39	0.22
Decoding Words	4.27	0.41
Decoding Non-words	4.55	0.41
Picture Matching	0.16	0.19
Oral Reading Fluency (ORF)	5.63	0.31
ORF with Comprehension	-0.06	-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 3.5: School Infrastructure: Safe windows and openings for ventilation

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.41	0.45
Phonological Awareness	1.04	0.41
Decoding Letters	2.20	0.20
Decoding Words	5.67	0.53
Decoding Non-words	6.66	0.59
Picture Matching	-0.28	-0.33
Oral Reading Fluency (ORF)	3.56	0.19
ORF with Comprehension	1.92	1.31

* 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	-0.75	-0.84
Phonological Awareness	-1.01	-0.39
Decoding Letters	-6.45	-0.58
Decoding Words	-6.80	-0.64
Decoding Non-words	-9.03	-0.80
Picture Matching	0.34	0.40
Oral Reading Fluency (ORF)	-13.64	-0.75
ORF with Comprehension	-1.59	-1.06

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.

Table 3.7: School Facility: Basic hand washing facility

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.48	-0.53
Phonological Awareness	-1.23	-0.48
Decoding Letters	-6.57	-0.59
Decoding Words	-7.53	-0.71
Decoding Non-words	-9.70	-0.86
Picture Matching	0.12	0.14
Oral Reading Fluency (ORF)	-13.83	-0.76
ORF with Comprehension	-1.60	-1.06

* 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.

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	-0.10	-0.11
Phonological Awareness	-0.83	-0.33
Decoding Letters	-1.95	-0.18
Decoding Words	-5.31	-0.51
Decoding Non-words	-4.43	-0.40
Picture Matching	-0.07	-0.08
Oral Reading Fluency (ORF)	-8.11	-0.45
ORF with Comprehension	-0.76	-0.51

* 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	0.10	0.11
Phonological Awareness	-0.03	-0.01
Decoding Letters	-1.78	-0.16
Decoding Words	-2.81	-0.27
Decoding Non-words	-1.10	-0.10
Picture Matching	0.07	0.08
Oral Reading Fluency (ORF)	-2.59	-0.14
ORF with Comprehension	0.31	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 3.10: School Facility: Accessible infrastructure for students with disabilities

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	0.11	0.12
Phonological Awareness	1.01	0.40
Decoding Letters	0.66	0.06
Decoding Words	1.59	0.15
Decoding Non-words	4.50	0.40
Picture Matching	0.13	0.15
Oral Reading Fluency (ORF)	3.94	0.22
ORF with Comprehension	0.20	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 3.11: Health checkup not being done

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.20	-0.22
Phonological Awareness	-0.56	-0.22
Decoding Letters	-2.78	-0.25
Decoding Words	2.16	0.20
Decoding Non-words	1.33	0.12
Picture Matching	-0.29	-0.34
Oral Reading Fluency (ORF)	-0.28	-0.02
ORF with Comprehension	0.16	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 3.12: Classroom Equipment: Story Books

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	-0.01	-0.01
Phonological Awareness	-0.95	-0.37
Decoding Letters	-0.53	-0.05
Decoding Words	-5.25	-0.49
Decoding Non-words	-5.77	-0.51
Picture Matching	0.08	0.09
Oral Reading Fluency (ORF)	-9.00	-0.49
ORF with Comprehension	-0.72	-0.48

* 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	0.40	0.45
Phonological Awareness	0.56	0.22
Decoding Letters	-1.94	-0.17
Decoding Words	-0.39	-0.04
Decoding Non-words	2.96	0.26
Picture Matching	-0.05	-0.06
Oral Reading Fluency (ORF)	2.31	0.13
ORF with Comprehension	1.17	0.80

* 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	0.31	0.35
Phonological Awareness	1.01	0.40
Decoding Letters	3.28	0.30
Decoding Words	6.35	0.62
Decoding Non-words	6.33	0.58
Picture Matching	0.26	0.30
Oral Reading Fluency (ORF)	14.05	0.81
ORF with Comprehension	0.97	0.67

* 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	0.14	0.16
Phonological Awareness	1.08	0.43
Decoding Letters	3.21	0.29
Decoding Words	5.87	0.57
Decoding Non-words	6.86	0.63
Picture Matching	0.08	0.09
Oral Reading Fluency (ORF)	6.67	0.37
ORF with Comprehension	0.88	0.61

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

			•	
m	at	Or	12	10
	au	CI		-

Literacy Sub Task	Difference between mean Scores	Sig.*
Oral Language Comprehension	1.74	2.02
Phonological Awareness	3.37	1.35
Decoding Letters	8.12	0.73
Decoding Words	17.19	1.67
Decoding Non-words	14.69	1.32
Picture Matching	1.70	2.09
Oral Reading Fluency (ORF)	21.90	1.22
ORF with Comprehension	1.47	0.99

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 20 numbers correctly.
►	Percentage of Students		
	Descriptor	District Average Performance (
	Reads numbers up to 9999	75	72
	Reads numbers up to 999	14	16
	Reads numbers up to 99	10	10

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





•	Number Discrimination		On average
	The task comprised of comparing pairs of numbers to identify the bigger number.	stu	idents identified 11 numbers correctly.
•	Percentage of Students		
	Descriptor	District Average Performance (%)	State Average Performance (%)

Discriminates numbers up to 9999	64	71
Discriminates numbers up to 999	19	18
Discriminates numbers up to 99	12	8
Discriminates numbers only up to 9	4	4

• Average Score in Number Discrimination (on a scale of 0 to14)





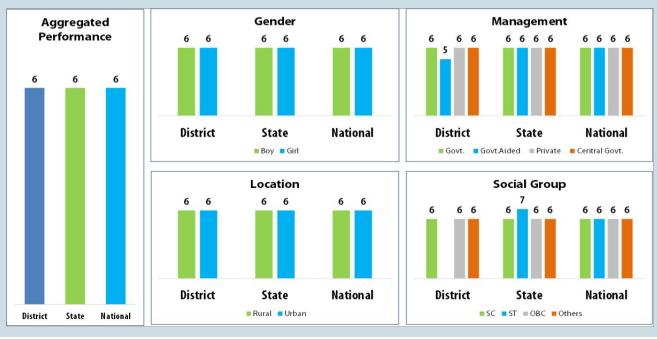
• Number Operation (Addition and Subtraction)

The task was based on completing addition and subtraction facts.

Percentage of Students

Descriptor	District Average Performance (%)	State Average Performance (%)	 Percentage of Students Used Strategies to Solve the question 		
Adds numbers upto 999	56	54		District Average Performance (%)	State Average Performance (%)
Adds numbers upto 99	76	73	_		
Adds numbers upto 9	95	93	Finger/tick marks	4	8
Subtracts numbers upto 999	45	41	Paper and pencil	89	87
Subtracts numbers upto 99	69	67			
Subtracts numbers upto 9	86	84	Mental calculation	7	6

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



Note: Decimal figures in the data set has been rounded up to whole numbers and hence may not add up to 100.



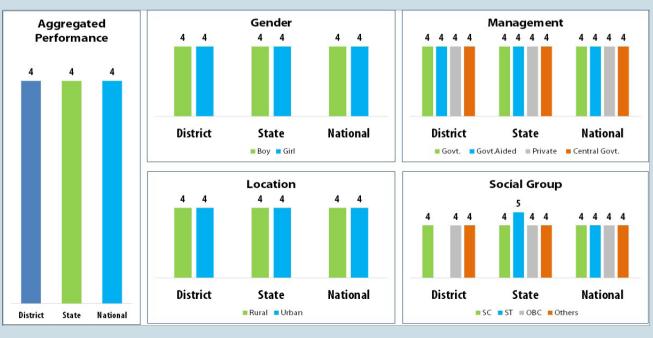
Number Operation (Word Problems)

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

Percentage of Students

Descriptor	District Average Performance (%)	State Average Performance (%)	 Percentage of Students Used Strategies to Solve the Questior 		
Identifies the application of operation of addition in real life situations and provides the correct answer for questions based on addition only	57	56	Strategies	5 to Solve th District Average Performance (%)	State Average Performance (%)
Identifies the application of operation of subtraction in real life situations and provides the correct answer for questions based on subtraction only	46	42	Finger/tick marks	8	12
Identifies the application of number operations in real life situations and provides the correct answers for 80% and above questions	55	52	Paper and pencil Mental calculation	75 17	72 16

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





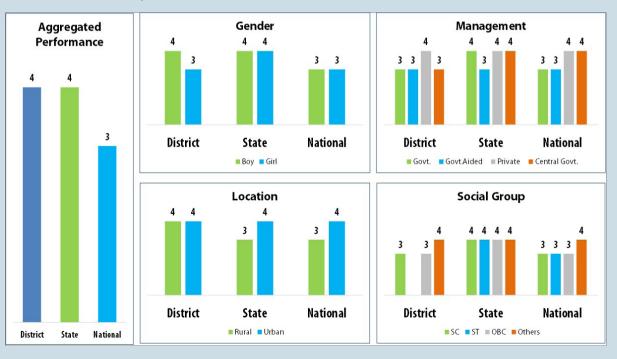
Number Operation (Multiplication)

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

Percentage of Students

Descriptor	District Average Performance (%)	State Average Performance (%)
Understands and applies correct multiplication facts in 80% and above questions	82	81
Understands and applies correct multiplication facts in 50% and less than 80% questions	8	9
Understands and applies correct multiplication facts in less than 50% questions	2	3
Does not respond	8	7

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	District Average Performance (%)	State Average Performance (%)
Understands and applies correct Division facts in 80% and above questions	47	46
Understands and applies correct Division facts in 50% and less than 80% questions	33	33
Understands and applies correct Division facts in less than 50% questions	7	6
Does not respond	13	16

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	District Average Performance (%)	State Average Performance (%)
Identifies the Month, Date and Day on the Calender	67	69
Identifies the month, date and day with help	17	17
Make mistakes in identifying the Month, date and day	4	3
Dose not respond	11	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	District Average Performance (%)	State Average Performance (%)
Can compare and estimate the volume of different containers	34	37
Can either compare or estimate the volume of different containers	60	56
Attempts but makes mistakes in estimating and comparing the volume	4	4
Dose not respond	3	3

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	District Average Performance (%)	State Average Performance (%)
Tells the time correctly	52	53
Tells the time correctly with the help of hint	35	37
Dose not respond	13	11

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





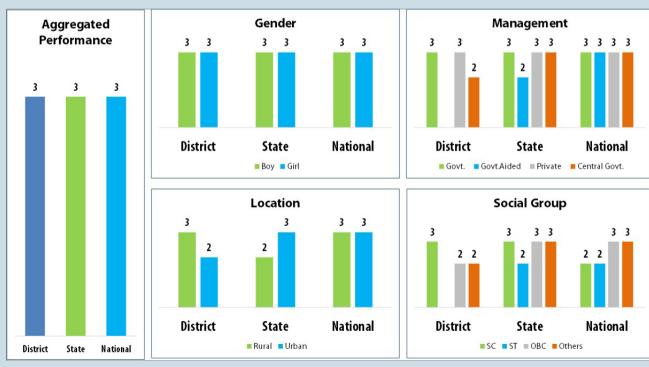
Measurement (Length)

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	District Average Performance (%)	State Average Performance (%)
Applies the understanding of measurement of length and calculates the length of the object	65	63
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	25	29
Makes effort but not able to calculate the length of the object	7	4
Dose not respond	2	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	District Average Performance (%)	State Average Performance (%)
correctly identifies one-half	49	57
correctly identifies one-fourth	22	33
correctly identifies three-fourth	39	47
correctly identifies all the fractions (one-half, one-fourth, three-fourth)	20	30
correctly represents one-half	55	62
correctly represents one-fourth	38	44
correctly represents three-fourth	23	31
correctly represents all the fractions (one-half, one-fourth, three-fourth)	20	27

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



Note: Decimal figures in the data set has been rounded up to whole numbers and hence may not add up to 100.



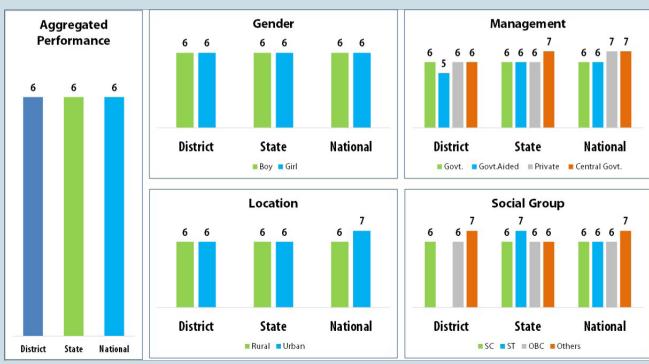
Pattern

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

Percentage of Students

Descriptor	District Average Performance (%)	State Average Performance (%)
Correctly identifies and completes patterns with shapes and numbers in 80% and above questions	59	60
Correctly identifies and completes patterns with shapes and numbers in 50% to less than 80% questions	29	28
Correctly identifies and completes patterns with shapes and numbers in less than 50% questions	10	9
Dose not respond	3	3

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	District Average Performance (%)	State Average Performance (%)
Answers 80% and above questions correctly	29	63
Answers 50% - less than 80% questions correctly	4	30
Answers less than 50% questions correctly	1	5
Answers less than 50% questions correctly	1	3

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

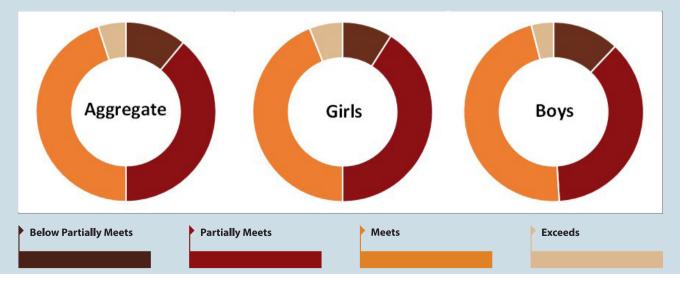




Benchmark of Numeracy and Student Performance

Global Proficiancy 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 knowle dge 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 - 6970 - 83Score PointsScore Points		84 and above Score Points	
Percentage of Students	District	11	39	45	5	
meeting the standard	State/UT 10		37	45	8	
Percentage of	District	9	41	44	б	
Girls meeting the standard	State/UT 11		39	43	7	
Percentage of Boys meeting the	District	12	37	47	4	
standard	State/UT	10	36	46	8	

Distribution of Students by Global Proficiency Levels in the District (In percentage)



Note: Decimal figures in the data set has been rounded up to whole numbers and hence may not add up to 100.



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	-0.44	-0.08
Attended pre-primary Classes/Anganwadi	0.46	0.08
Ask questions in the class	0.42	0.08
Reads other materials in addition to textbooks	0.78	0.14
Playing Game	0.61	0.11
Story telling with family members	0.34	0.06
Playing Game with family members	0.32	0.06
Time taken to go to school upto 30 mins.	0.06	0.01
Time taken to go to school upto more than 30 mins.	-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.

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	0.07	0.01
Attend any in-service workshop/Training to understand the learning needs and other developmental aspects in young children	-0.03	-0.01
Highest educational qualification upto Higher Secondary	-0.02	0.00
Technique used in assessing students : Observation (Never and Sometimes Vs. Most of the times and Almost Always)	0.17	0.03
Technique used in assessing students : Class Test (Never and Sometimes Vs. Most of the times and Almost Always)	-0.05	-0.01
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)	-0.01	0.00
Technique used in assessing students : Oral Work (Never and Sometimes Vs. Most of the times and Almost Always)	0.28	0.05
Maintain Teacher's Diary	0.07	0.01
Teacher's uses portfolio to assess the progress of the child	0.16	0.03
Time taken to go to school upto 30 mins.	0.01	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.

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	5.97	1.08
School Infrastructure: Fully functional toilet for girls	-0.59	-0.11
School Infrastructure: Fully functional toilet for boys	-0.15	-0.03
School Infrastructure: Readily available medical room	-0.08	-0.01
School Infrastructure: Safe windows and openings for ventilation	5.97	1.08
School Facility: Basic Drinking Water	5.97	1.08
School Facility: Basic hand washing facility	0.15	0.03
School Facility: Mid-day meals to the child on daily basis	-0.39	-0.07
School Facility: Primary Health Services	0.35	0.06
School Facility: Accessible infrastructure for students with disabilites	-0.21	-0.04
Health checkup not being done	-0.18	-0.03
Classroom Equipment : Story Books	0.27	0.05
Classroom Equipment : Toys/ Play equipment	-0.52	-0.09
Classroom Equipment : Computers	0.05	0.01
Classroom Equipment : Internet access	0.05	0.01
Classroom Equipment : Textbooks/reading materials	1.27	0.23

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.



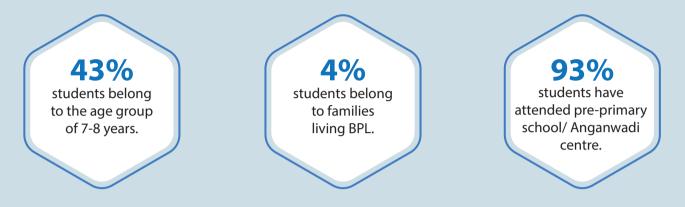
Profiling of Backgrounds Variables





Student Demographic Profile

The FLS conducted on grade 3 students revealed that



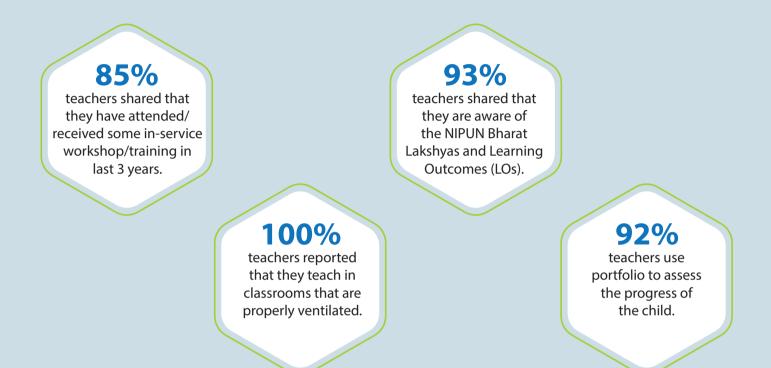
Activities that family members do	Percenta	age of Students	(District)	Percentage of Students (State/UT)			
with the children	Rarely	Sometimes	Often	Rarely	Sometimes	Often	
Reading Books	15	70	15	21	64	15	
Playing with toys	17	73	11	21	64	14	
playing games	13	73	14	16	65	19	
Outdoor activities like picnic etc.	12	80	8	15	73	13	
Art and craft	18	72	10	27	64	9	
Oral story telling	14	69	17	18	63	19	

Activities children like to do	Percentage of Students (District)	Percentage of Students (State/UT)
Art and Craft	98	96
Reading books (other than textbooks)	95	91
Playing with toys	91	91
Playing games	96	96
Exercise (Yoga etc.)	87	81
Looking after plants or/and animals	94	91

Mode of commuting to school	Percentage of Students (District)	Percentage of Students (State/UT)
On foot	66	54
Bicycle	6	8
Public Transport (Bus/Train/Metro)	2	6
School provides transport	18	13
Own transport Two/three-wheeler	9	17
Own transport Four-wheeler	1	2



Teacher Demographic and Professional Profile



Infrastructure and resource used by		Percentage of Teachers (District)				Percentage of Teachers (State/UT)			
the teacher	Never	Once a week	Everyday	Not Available	Never	Once a week	Everyday	Not Available	
Spacious classrooms	3	16	77	4	2	18	79	1	
Classroom with access to additional space	1	58	38	2	3	56	38	3	
Space in Veranda/Corridor	14	43	38	5	23	46	25	6	
Library	3	61	31	5	8	72	18	3	
Hall	16	53	16	14	17	56	12	15	
Play ground	1	43	51	4	7	44	43	6	
Smart classroom	7	34	48	11	8	37	39	16	

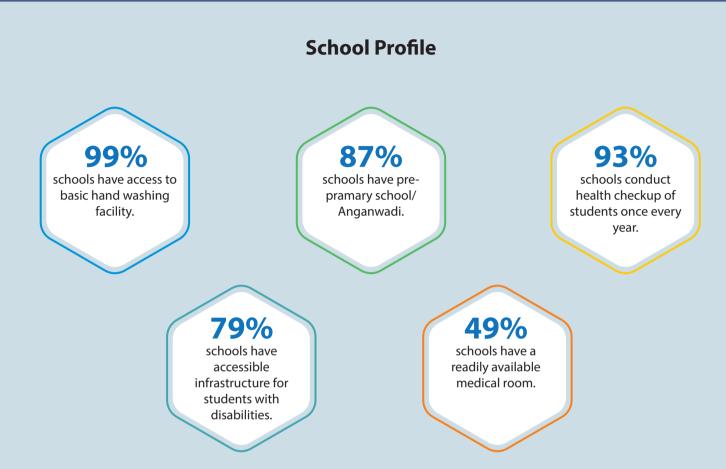


	Percentage of Teachers (District)				Percentage of Teachers (State/UT)			
Assessment techniques use by the teachers	Never	Sometime	Most of the time	Almost always	Never	Sometime	Most of the time	Almost always
Observations	0	16	28	56	2	12	34	52
Class test (paper-pencil)	0	10	42	49	0	10	53	36
Group activities	0	23	38	39	0	31	48	21
Peer work	4	33	36	27	2	31	44	23
Oral work	0	6	30	64	0	11	34	55

Educational Qualification	Percentage of Teachers (District)	Percentage of Teachers (State/UT)	Teaching Experience at the foundational stage	Percentage of Teachers (District)	Percentage of Teachers (State/UT)
Higher Secondary	7	8	Less the a year	7	13
Graduation	38	41	1-3 years	37	28
M.Phil./Ph.D.	29	14	5 years	16	14
Post-Graduation	26	36	More than 5 years	40	45

Teaching learning material used in the	Percentage of Teachers (District)				Percentage of Teachers (State/UT)			
classroom at the foundational stage	Not available	Never	Sometime	Most of the time	Not available	Never	Sometime	Most of the time
Black Board	0	0	10	90	1	1	5	93
Text book(s)	0	0	12	88	0	0	10	90
Story Books	0	2	50	48	1	2	54	43
Toys	4	7	54	35	6	5	63	25
Play equipment	1	4	58	37	4	3	59	35
Locally available material	1	4	46	50	3	3	44	50
Computer resources (Audio visual aid)	2	1	53	43	6	4	44	47
Library resources	2	1	48	49	3	1	52	44





Resources used in the classrooms at the Foundational Stage	Percentage of Schools (District)	Percentage of Schools (State/UT)
Story Books	98	95
Toys/Play equipment	97	92
Locally available/developed Teaching Learning Materials	97	95
Computers	98	94
Internet access	80	82
Electricity and proper lighting	100	100
Safe windows and opening for ventilation	100	99
Textbooks/reading materials	99	100



Source of drinking water for school	Percentage of Schools (District)	Percentage of Schools (State/UT)
None	33	24
Well water	13	5
Hand pump	57	22
Тар	96	97
Rain water tank	5	7

School Managing Committee and Parent-Teacher Meeting (PTM)	Percentage of Schools (District)	Percentage of Schools (State/UT)
Presence of school Managing Committee in the school	98	98
PTM held every month	66	65
PTM held every 3 months	62	60
PTM held every 6 months	32	30
PTM not been held/organised	19	15

Community support to the school	Percentage of Schools (District)	Percentage of Schools (State/UT)
Providing infrastructure when required	80	67
Providing different usable resources when required	85	75
Providing resource persons for different purposes	83	70
Cooperating with school for awareness drives (cleanliness, enrollment etc.	91	92
There is not much involvement of the community	26	31



Language used at Home and in School



FLS 2022 Team

Core Team

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SPDs; Director SCERTs; Principal SIEs

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