Har Ghar School

Impact Assessment

Understanding the effect on Learning Outcomes from August 2020 to March 2021

Assessment Details

Grade 2

Skills assessed
- Varn-Akshar Pehchan, Word Reading, Reading of Connected Text, Reading Comprehension and Writing (dictation)
- Usage of same tool for Baseline-Endline
- Same students were assessed by random sampling at district-level

Grade 3

Skills assessed
- Word Reading, Oral Reading Fluency, Reading Comprehension, Writing (sentences)
- Usage of same tool for Baseline-Endline
- Same students were assessed by random sampling at Block-level

Block - Grade 2	Baseline	Endline	% same children who were assessed
Ambala	69	59	86%
Babain	20	20	100%
Fatehabad	142	137	96%
Hisar	85	84	99%
Jind	110	44	40%
Ladwa	50	49	98%
Pehowa	85	77	91%
Shahabad	75	75	100%
Sirsa	176	156	89%
Thanesar	140	114	81%
Yamunanagar	40	39	98%
Number of children assessed	992	855	86%

Grade 3	Baseline	Endline	% same children who were assessed
Kurukshetra Number of children assessed	100	92	**92%**

State Performance – Percentage increase in average scores due to Har Ghar School

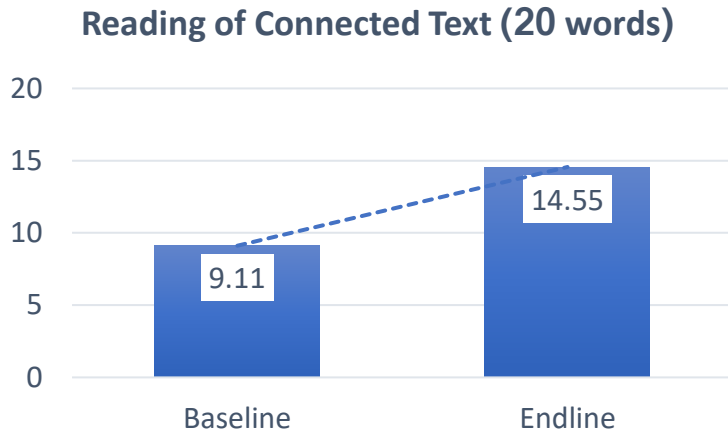There is a **21% increase** in the students' average ability to recognize Varn-Akshar
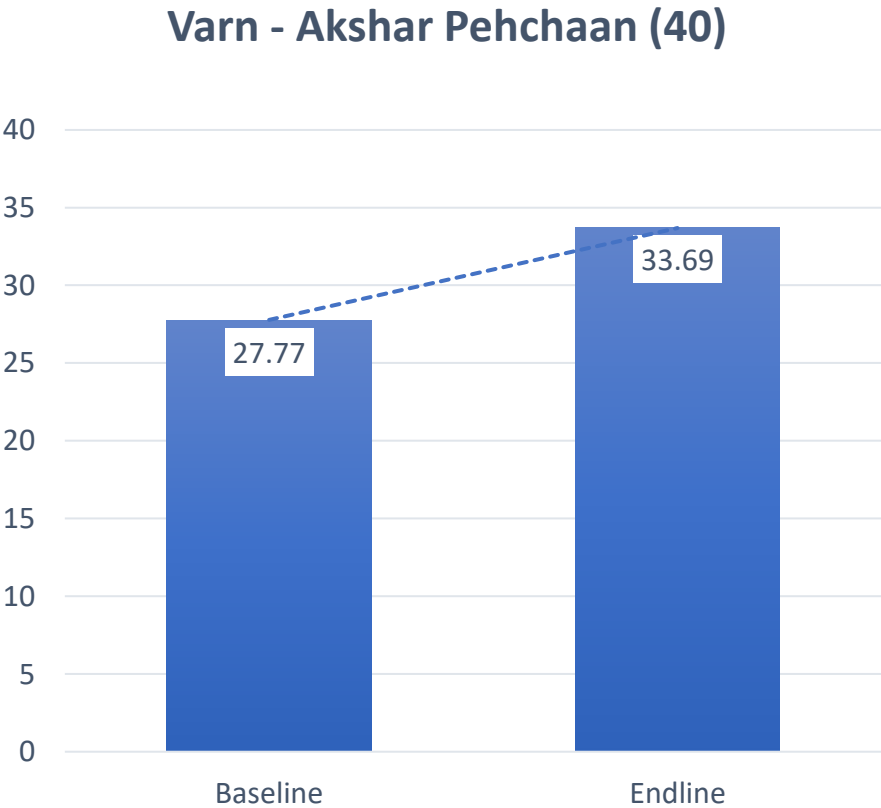
There is a **44% increase** in the students' average ability to recognize 20 independent words

Varn - Akshar Pehchaan (40)

Baseline: 27.77
Endline: 33.69

Word Reading (20 words)
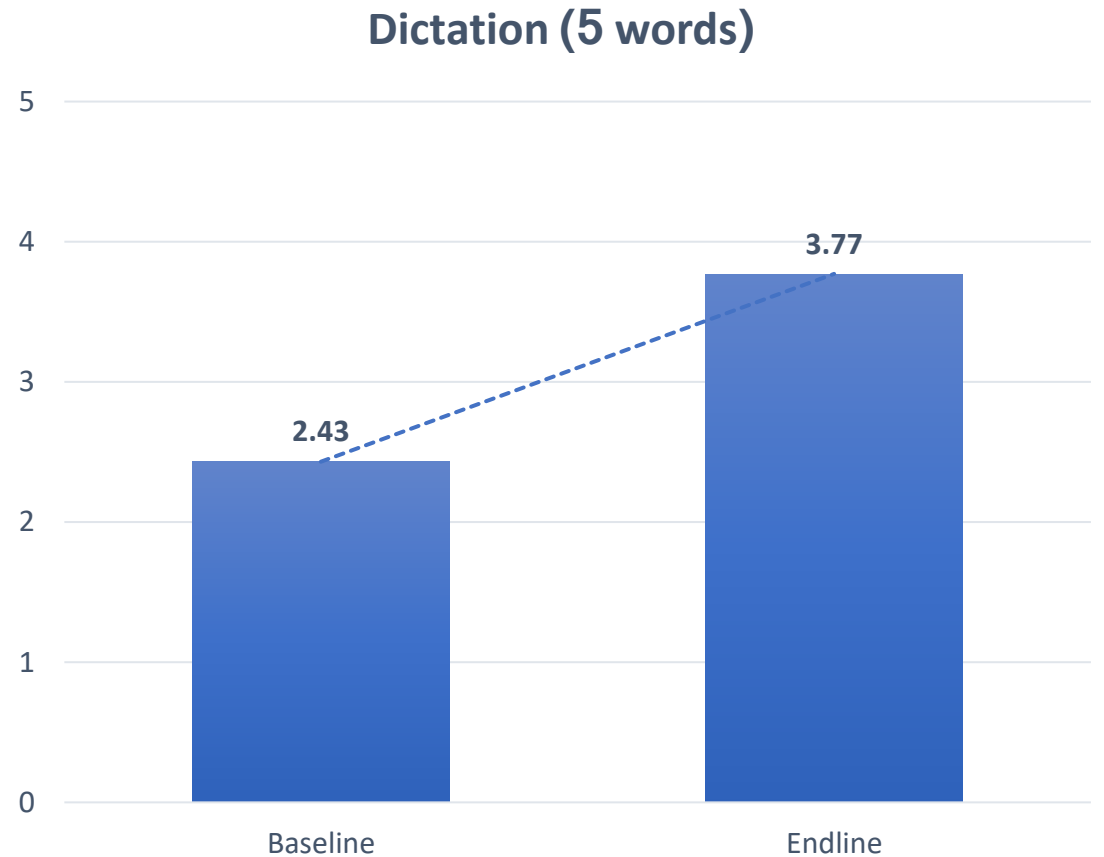
Baseline: 10.83
Endline: 15.57
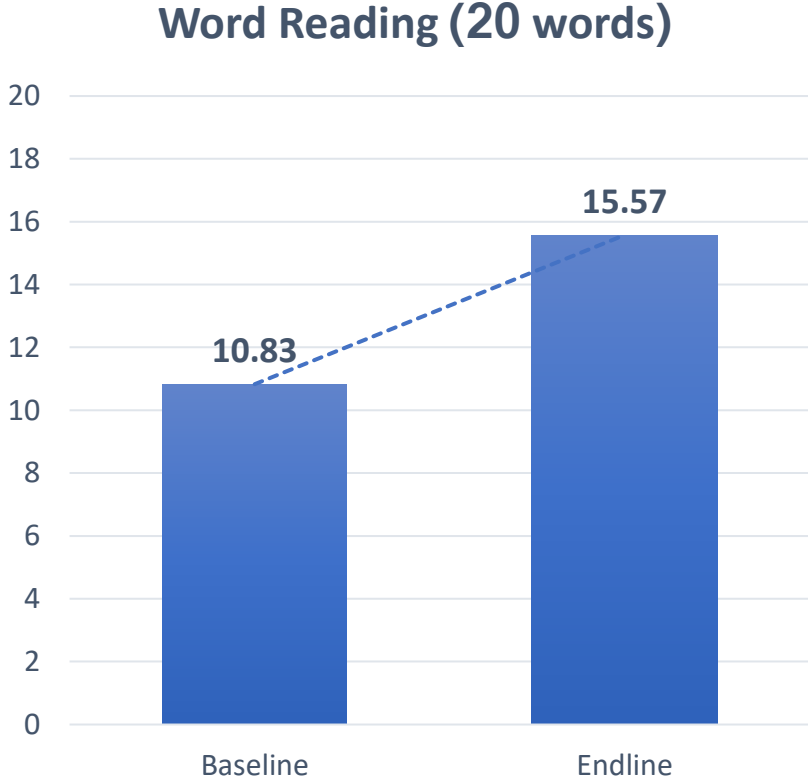
State Performance – Percentage increase in average scores due to Har Ghar School

There is a **60% increase** in the students' average ability to read a connected text of 20 words

Reading of Connected Text (20 words)

There is a **55% increase** in the students' average ability to write 5 independent words

Dictation (5 words)

There is a **80% increase** in the students' average ability to answer reading comprehension questions
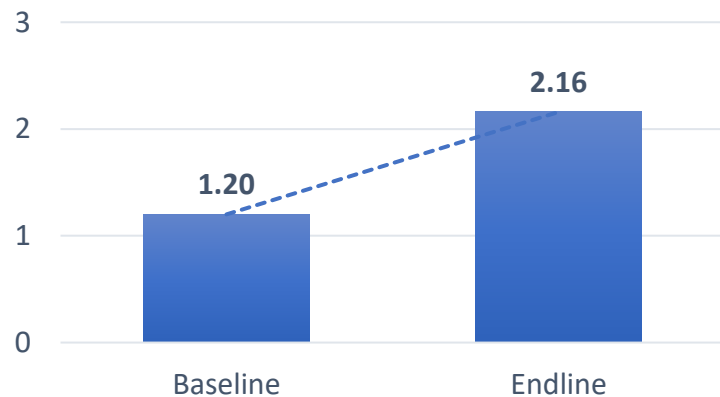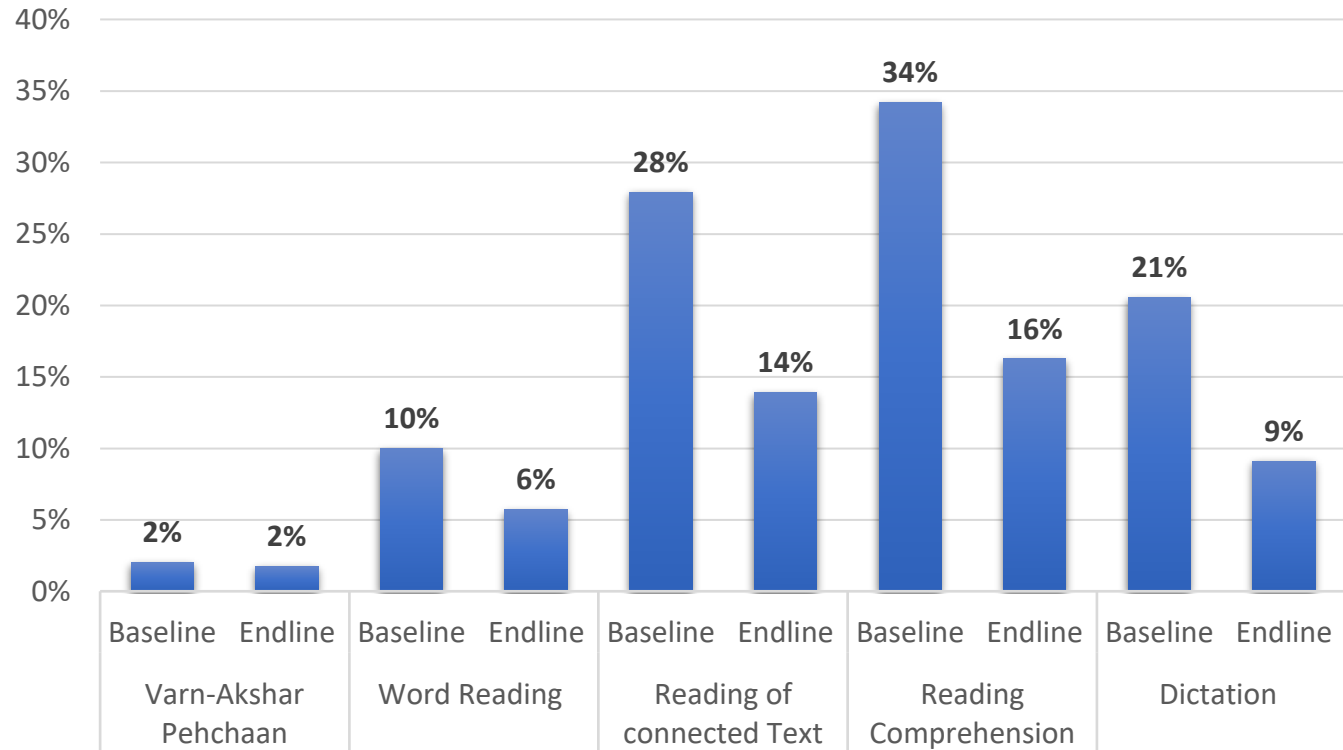
Percentage Improvement in the progression of Literacy skills during Har Ghar School Program
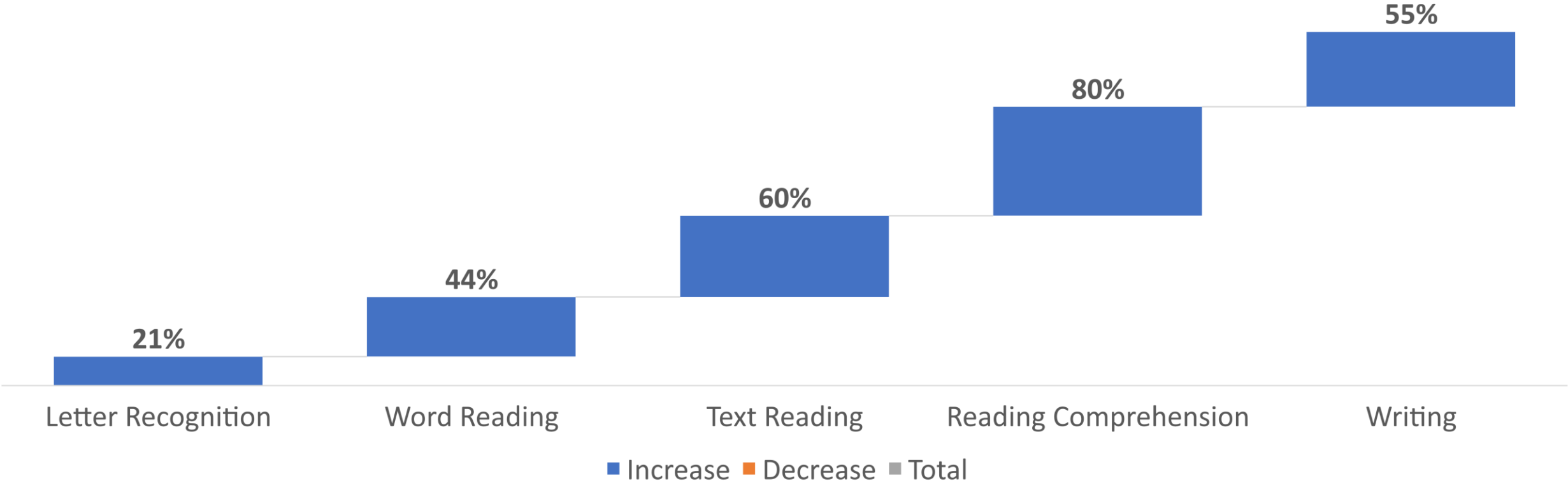
Word Reading, Reading of Text and Writing show the highest improvements

State Performance – Percentage decrease in zero scores from Baseline to Endline

Percentage of children scoring zero in each of the skills

- There is a decrease in the number of children scoring zero in the sample assessed

- We see a decrease in the children scoring zero scores in each of the skills
  Varn- Akshar Pehchaan = 2%
  Word Reading – 10% to 6%
  Reading of connected text – 28% to 14%
  Reading Comprehension – 34% to 16%
  Dictation – 21% to 9%

	Varn-Akshar Pehchaan		Word Reading		Reading of connected Text		Reading Comprehension		Dictation	
	Baseline	Endline	Baseline	Endline	Baseline	Endline	Baseline	Endline	Baseline	Endline
Number of children	20	15	99	49	277	119	339	139	204	78
Percentage	2%	2%	10%	6%	28%	14%	34%	16%	21%	9%

Performance by District – Average Scores

	Varn-Akshar Pehchaan		Word Reading		Reading of connected Text		Reading Comprehension		Dictation	
c	B: वर्ण/अक्षर (40)	E: वर्ण/अक्षर (40)	B: शब्द पठन (20)	E: शब्द पठन (20)	B: पढ़कर समझना (20)	E: पढ़कर समझना (20)	B: पढ़कर समझना - सही उत्तर की संख्या (3)	E: पढ़कर समझना - सही उत्तर की संख्या (3)	B: श्रुतलेख (5)	E: श्रुतलेख (5)
Ambala	34.00	38.41	15.19	18.44	13.98	18.61	2.03	2.78	3.51	4.63
Babain	23.70	33.05	6.05	15.65	3.50	12.00	0.45	1.80	1.05	4.15
Fatehabad	28.73	34.53	11.86	16.29	9.38	15.62	1.09	2.40	3.02	3.98
Hisar	28.64	30.37	10.82	13.62	8.38	12.20	1.01	1.77	2.49	2.84
Jind	31.34	35.48	12.91	16.39	12.23	16.30	1.50	2.61	3.05	4.20
Ladwa	25.90	34.12	9.71	15.53	8.78	14.22	1.39	2.24	2.22	3.86
Pehowa	28.76	33.01	11.32	15.06	9.67	15.26	1.19	2.00	2.42	3.43
Shahabad	24.77	34.89	10.08	16.97	8.16	15.72	1.03	2.27	1.72	3.83
Sirsa	29.47	34.81	12.13	16.13	10.06	15.10	1.32	2.14	2.56	3.85
Thanesar	28.37	32.37	11.70	14.56	11.00	13.59	1.54	1.92	2.84	3.75
Yamunanagar	21.74	29.54	7.41	12.64	5.13	11.46	0.67	1.79	1.85	3.00
Haryana	**27.77**	**33.69**	**10.83**	**15.57**	**9.11**	**14.55**	**1.20**	**2.16**	**2.43**	**3.77**

'Har Ghar School (HGS)' – Home-based & community-based learning during the pandemic

3 States
Haryana
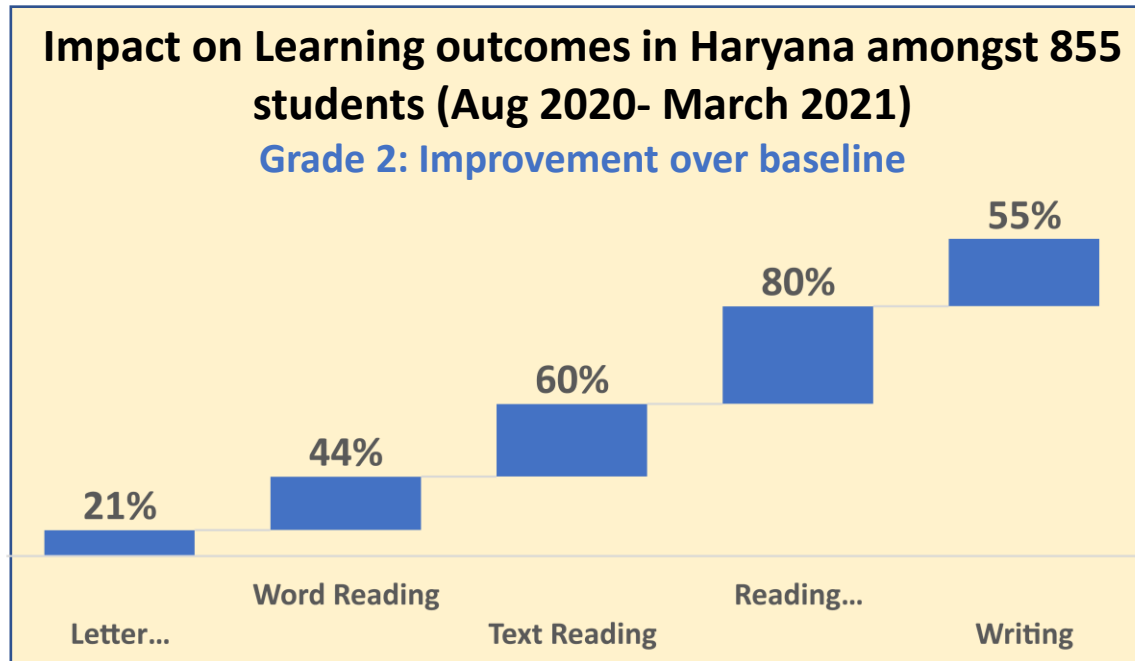Rajasthan
Chhattisgarh

83,446
Studentsin
Grades 1-3

3,650 Schools

5,214
Teachers

800 Officials

Program Success indicators

Volunteers: 3600+ volunteers
Community classes: ~90% schools conduct classes
Attendance: ~71% students attend at least thrice a week
Parent engagement: ~74% of parents on WhatsApp groups respond with completed activities

Impact on Learning outcomes in Haryana amongst 855 students (Aug 2020- March 2021)

Grade 2: Improvement over baseline

21% — Letter...
44% — Word Reading
60% — Text Reading
80% — Reading...
55% — Writing

LLF's focus on equity (Students at the bottom of the pyramid)

◁ Reduction in the percentage of children scoring zero in Word Reading, Reading of connected Text and Dictation.

◁ 20th and 25th Percentile Scores much higher at end line.

20th Percentile Scores

- Word Reading (Out of 20): Baseline 4, Endline 12
- Reading of connected Text (Out of 20): Baseline 0, Endline 9
- Dictation (Out of 5 words): Baseline 0, Endline 2

Baseline score — Endline Score

25th Percentile Scores

- Word Reading (20): Baseline 5, Endline 14
- Reading of connected Text (20): Baseline 1, Endline 12
- Dictation (5): Baseline 1, Endline 3

Baseline — Endline

'Har Ghar School (HGS)' – Reaching Learners at the Bottom of the Learning Pyramid (Equity Focus)

⬿ <u>Improved performance of the lowest performing 20th percentile children:</u> The average scores these children at the endline more than doubled.

Average scores at the 20th Percentile	Letter Recognition (Out of 40)	Word Reading (Out of 20)	Reading of connected Text (Out of 20)	Reading Comprehension (Out of 3)	Dictation (Out of 5 words)
Average Score in Baseline	11.9	1.36	0	0	0
Average Score in End line	25.74	9.77	9.57	1.5	2.5
% increase from Baseline-Endline	**116%**	**618%**	**NA**	**NA**	**NA**

⬿ A reduced distance between the 25th percentile score and median (50th Percentile), **a good indicator of inclusive learning.**

Percentile Scores	Letter Recognition (40)		Word Reading (20)		Reading of connected Text (20)		Reading Comprehension (3)		Dictation (5)	
	Baseline	Endline	Baseline	Endline	Baseline	Endline	Baseline	Endline	Baseline	Endline
25th Percentile	20	31.75	5	14	0	12	0	1.75	1	3
50th Percentile	31	38	12	18	11	18	1	3	3	5

Standard deviation of the scores at the end line reduced significantly compared to the baseline.

GRADE 3

a) Average Scores and Percentage Increase in Baseline-Endline (By Skill)

	Word Reading		Oral Reading Fluency		Reading Comprehension		Writing (sentences)	
	B: Average of शब्द पठन (20)	E: Average of शब्द पठन (20)	B: Average ORF	E: Average ORF	B: Average of पढ़कर समझना (4)	E: Average of पढ़कर समझना (4)	B: Average of श्रुतलेख (12)	E: Average of श्रुतलेख (12)
Baseline	17.41	19.08	35.63	50.32	2.67	3.41	8.38	11.80
Percentage Increase	10%		41%		28%		41%	

Block	Sample size
Pehowa	30 students
Shahabad	20 students
Thanesar	50 students

There is a **10% increase** in the students' average ability to recognize 20 independent words

There is a **41% increase** in the students' average ability to a connected text of 60 words in a minute (Oral Reading Fluency)

There is a **28% increase** in the students' average ability to answer reading comprehension questions

There is a **41% increase** in the students' average ability to write 2 sentences of 5 words each.

Further Insights

On checking the dependency of the average scores of the students with the following factors,
a) Number of members in the family
b) Parental Education
c) Parental Occupation
d) Presence of smart phones at home
e) Presence of Radio/Television at home
f) Presence of other story books, reading books, textbooks and comics

We find that a lower performance in 'Reading a Connected Text' can be attributed towards
i) Households where parents are daily wage workers and Government laborers
ii) Parents who have not attended any schooling

Parental Education	Mean Score	Std. Dev	Frequency
Until Class 5	11.04	6.46	290.00
Until Middle School	12.00	6.79	542.00
Graduation/PostGraduation	13.64	6.62	42.00
Not attended Schooling	8.39	6.70	117.00

Occupation of the parents	Mean Score	Std. Dev	Frequency
Government laborers	6.91	7.11	11.00
Private Employee	13.70	6.13	81
Daily Wage Worker	10.83	6.90	742
Farmer	12.17	5.58	92
Entrepreneur/Family Business	13.91	6.37	66.00

All other factors such as presence of Radio, Television, presence of smart phones, number of family members, presence of other learning materials at home *do not affect* the learning outcomes in this assessment. This demonstrates the effect of Har Ghar School in areas of low access to technology → Thus, reducing the inequity gap

Further Insights for Grade 2

a) Average Scores and Standard Deviation

	वर्ण/अक्षर (40)	शब्द पठन (20 words)	पढ़कर समझना Text (20 words)	पढ़कर समझना - Questions	श्रुतलेख (5)
Baseline	27.77	10.83	9.11	1.20	2.43
Endline	33.69	15.57	14.55	2.16	3.77
Std. Deviation Baseline	10.70	6.74	8.19	1.21	1.91
Std. Deviation Endline	9.31	5.81	7.17	1.14	1.67

There is a decrease in the standard deviations from the baseline to endline, this shows a reduced spread of the scores. That is, fewer children are lagging behind and more children are towards the higher end of the spectrum

b) Children scoring below a Cut-Off score

|	Varn-Akshar Pehchaan - below 20/40		Word Reading below 13/20		Reading of connected Text below 10/20		Reading Comprehension		Dictation below 3/5	
	Baseline	Endline	Baseline	Endline	Baseline	Endline	Baseline	Endline	Baseline	Endline
Number of children	213	92	359	209	418	188	NA		448	274
Percentage	21%	11%	36%	24%	42%	22%			45%	32%

There is also a visible decrease in the number of children scoring below cut-off score. Please note that cut-off scores are decided based on progression of skills and Grade-level

Further Insights for Grade 3

Baseline ORF
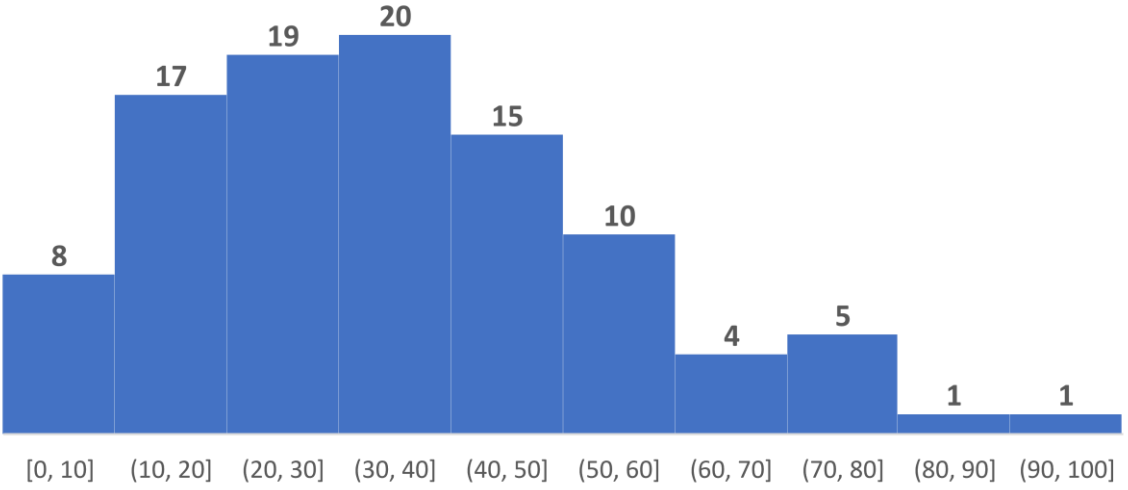
Endline ORF
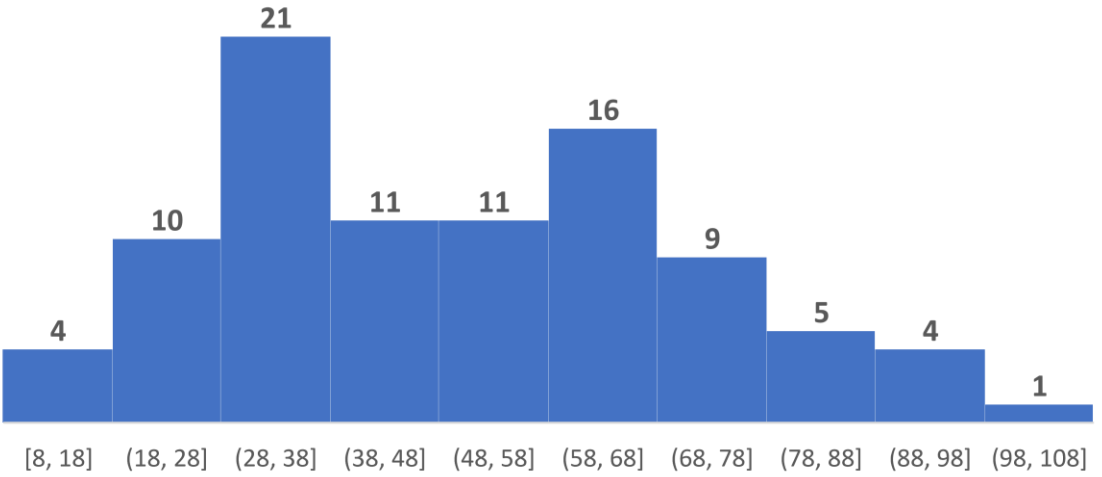
Aug 2020
Oral Reading Rate = 35.63 CWPM

March 2021
Oral Reading Rate = 50.32 CWPM

There is an improvement in Oral Reading Fluency Scores that is visible in the trajectory of the graphs. There are fewer students in the left-end of the spectrum on the Endline (Below) as compared to the Baseline (Top)