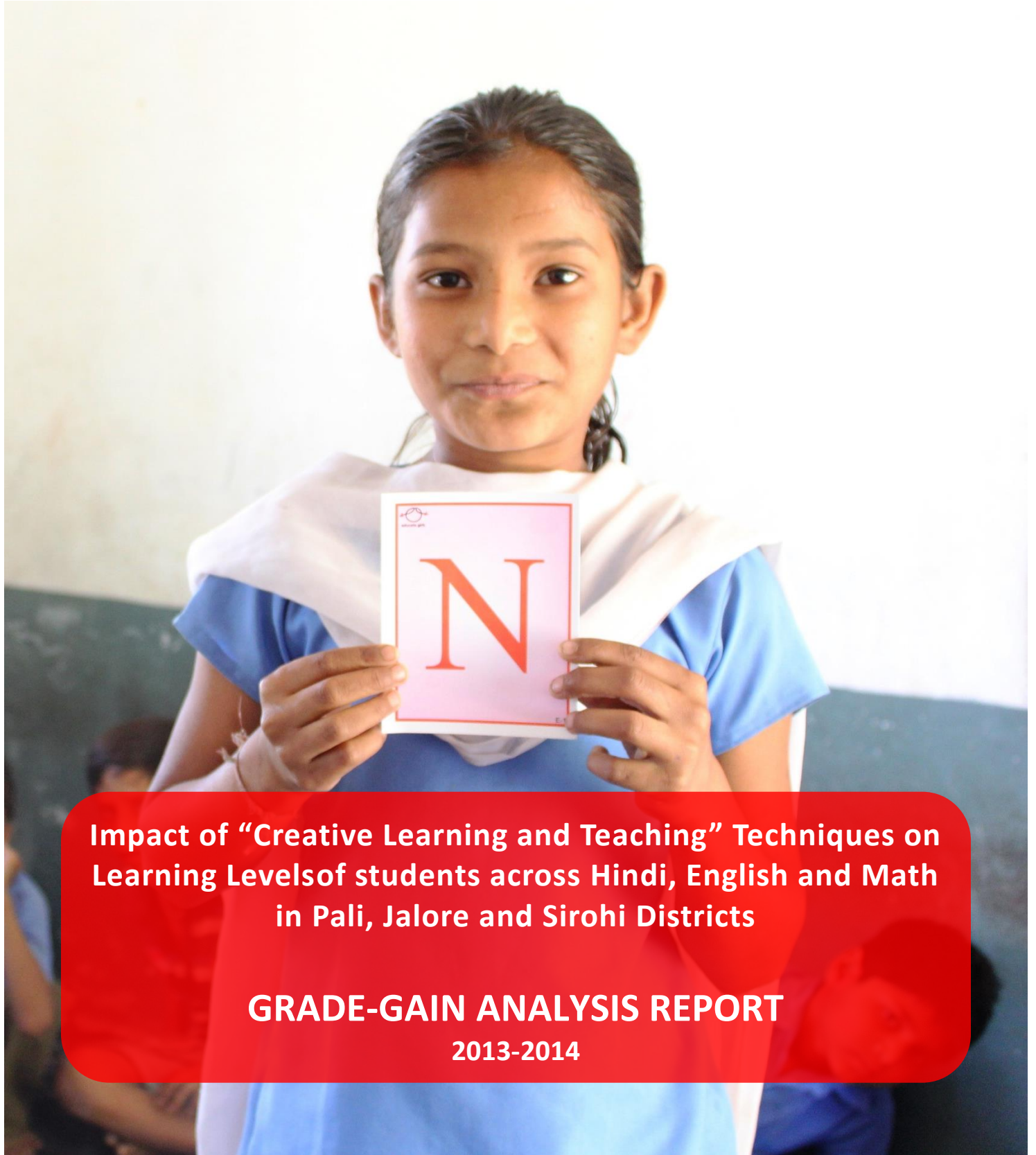




educate girls



Impact of “Creative Learning and Teaching” Techniques on Learning Levelsof students across Hindi, English and Math in Pali, Jalore and Sirohi Districts

GRADE-GAIN ANALYSIS REPORT

2013-2014

IN SUMMARY:

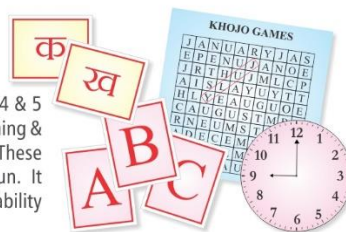


LEARNING IS FUN !

The Impressive Impact of Innovative Teaching

— THE CREATIVE CLASSROOM

Educate Girls has made schooling in grades 3,4 & 5 exciting and simple by using CLT (Creative Learning & Teaching) tools for Hindi, English and Math. These tools are activity-based, child-friendly and fun. It keeps students interested and improves their ability to imbibe what they are taught in classrooms.



— CAN INTERACTIVE TEACHING TRULY IMPROVE LEARNING ? —

YES!

During the Academic Year 2013-14

WE tested 53548 STUDENTS (POST TEST)

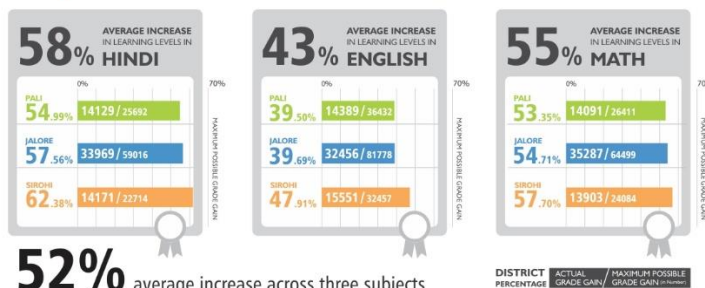
ACROSS **1600** SCHOOLS

26699 BOYS
49.86%

26849 GIRLS
50.14%



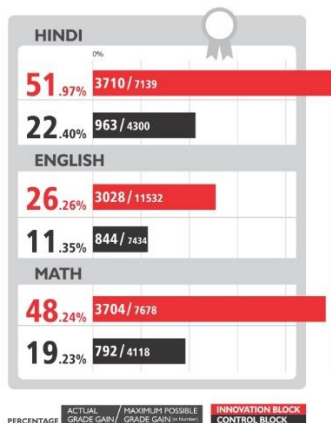
The quantifiable results of this research are commendable!



52% average increase across three subjects

Furthermore

6910 STUDENTS WERE TESTED across **4013** INNOVATION BLOCK and **2897** CONTROL BLOCK



A promising average increment of

42%

in learning levels across Hindi, English and Math was recorded in the **educate girls INNOVATION BLOCK** in Sirohi district

In comparison, the Control Block saw an average increase of 17.33%

BACKGROUND:

Educate Girls' project area comprises of six districts of Rajasthan - Pali, Jalore and Sirohi districts account for "Region 1" and Ajmer, Rajsamand and Bundi districts account for "Region 2".

Educate Girls works in the education sector to increase girls' enrollment and retention in schools and to improve learning levels for all students. One of the main activities of Educate Girls is to improve the quality of education. For this, Educate Girls uses child-centric learning and teaching techniques that are playful and activity-based.

Educate Girls trains school teachers in **Creative Learning and Teaching (CLT) techniques** to improve learning levels of students. Village based volunteers called Team Balika are engaged in CLT handholding in classrooms.

CLT methodology is a 12-week module for every school in the project area. For impact assessment on learning level, Educate Girls conducts pre-tests with students before CLT handholding and after 5 months it conducts a post-test to assess improvement in their learning levels.

Educate Girls has conducted pre and post-tests in 341 schools in Pali, 1041 including 118 treatment schools in Jalore and 476 including 140 PbR schools in Sirohi district, during 2013-14 academic year. In addition to this, pre and post tests have been conducted in 113 control schools in Jalore and 101 control schools in Sirohi districts.

The analysis reported in the following pages is based on the results of schools, where both pre and post tests have been concluded in 2013-14 academic session. Grade-Gain Analysis is based on scores of CLT pre and post tests at A, B, C, D and E learning levels.

1. Basic Information - General Schools & Comparison of Grade Gain

Districts	Pali	Jalore	Sirohi
Number of schools	341	923	336
Total Appeared in Pre tests	13581	31723	12024
Total Appeared in Post tests	12934	29324	11290

Formula for calculation of grade gains with aggregate level data:

1. Maximum possible grade (X) = No. of students in Pre-tests ($A*0+B*1+C*2+D*3+E*4$)

2. Maximum possible grade (Y) = No. of students in Post-tests ($A*0+B*1+C*2+D*3+E*4$)

3. Actual Achieved grade (Z) = X-Y

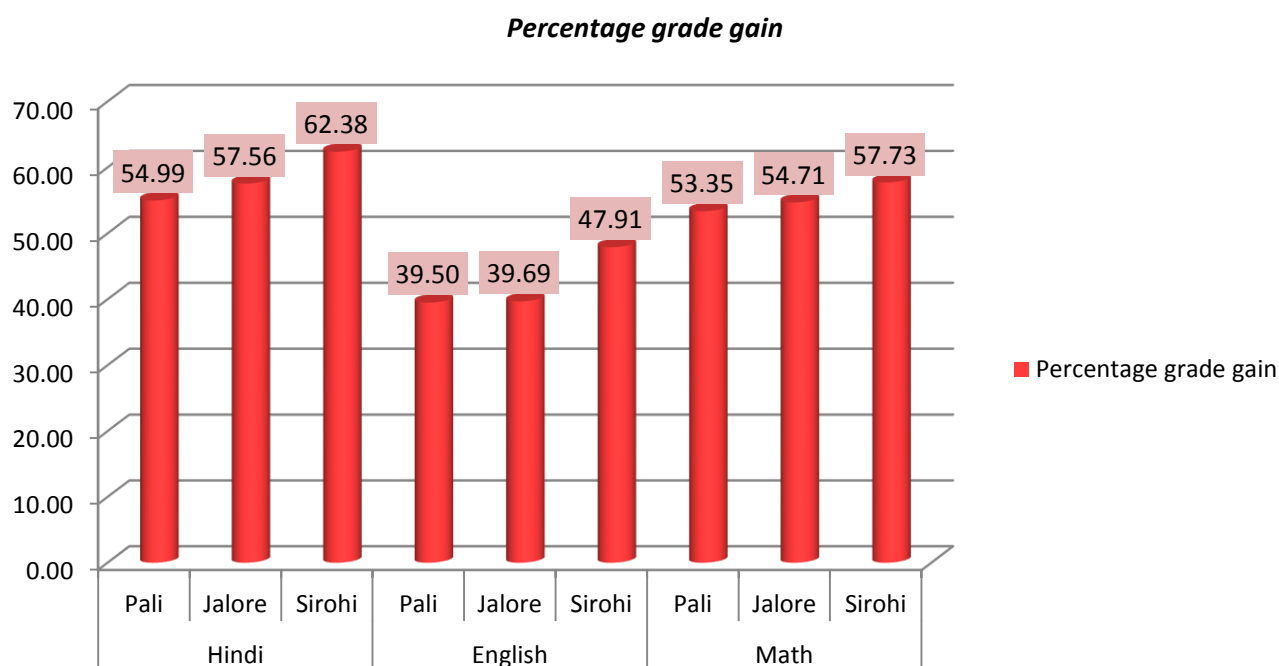
4. As no. of students in pre and post tests are different, calculated average grade gain (per student) and multiplied it with no. of students in pre tests.

The calculated results are shown in following table:

Comparison of Grade Gains in General Schools

Grade Gain Analysis_Pali_Jalore_Sirohi_General Schools									
Data at aggregate level	Hindi			English			Math		
	Pali	Jalore	Sirohi	Pali	Jalore	Sirohi	Pali	Jalore	Sirohi
Maximum possible grade gain (in Number)	25692	59016	22714	36432	81778	32457	26411	64499	24084
Actual grade gained (in Number)	14129	33969	14171	14389	32456	15551	14091	35287	13903
Percentage grade gain	54.99	57.56	62.38	39.50	39.69	47.91	53.35	54.71	57.7

Percentage grade gain of maximum possible grade gain



2. Basic Info-General Schools (PbR* included in Sirohi)

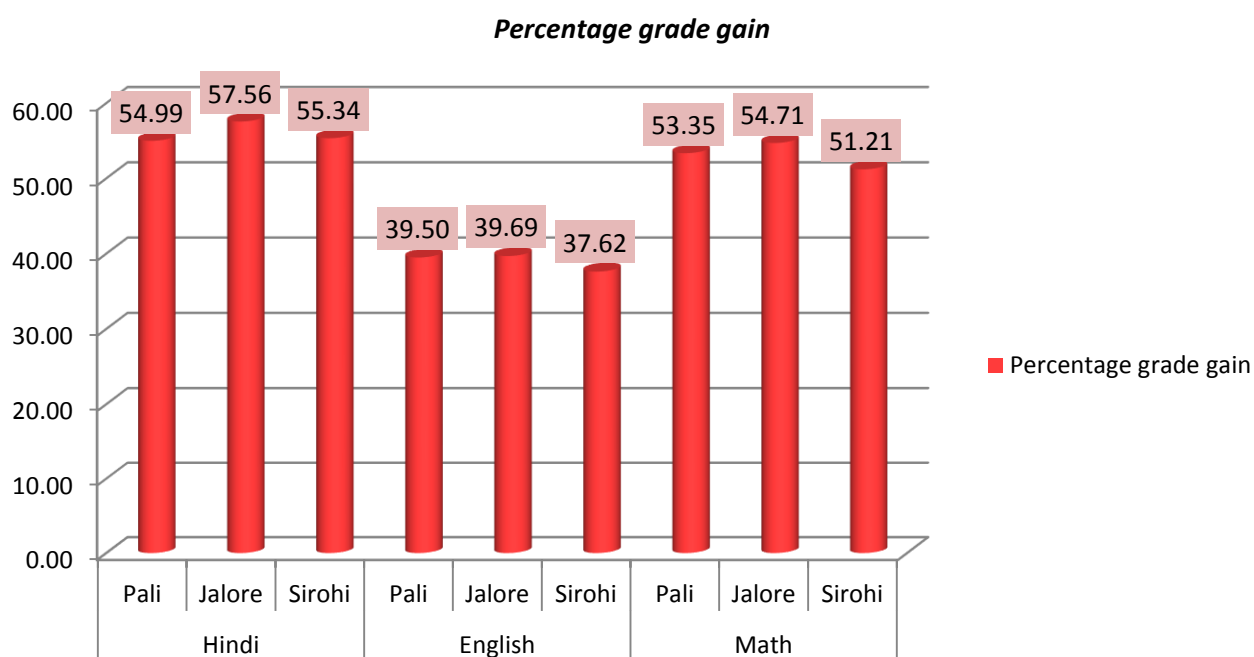
	Pali	Jalore	Sirohi(Incl.PbR)
Number of schools	341	923	476
Total Appeared in Pre tests	13581	31723	16712
Total Appeared in Post tests	12934	29324	16439

*Pay-by-Result / Innovation Block

3. Comparison of grade gain including PbR in Sirohi

Grade Gain Analysis_Pali_Jalore_Sirohi_General Schools including SirohiPbR									
Data at aggregate level	Hindi			English			Math		
	Pali	Jalore	Sirohi	Pali	Jalore	Sirohi	Pali	Jalore	Sirohi
Maximum possible grade gain (in Number)	25692	59016	31321	36432	81778	46082	26411	64499	33243
Actual grade gained (in Number)	14129	33969	17332	14389	32456	17335	14091	35287	17023
Percentage grade gain	54.99	57.56	55.34	39.50	39.69	37.62	53.35	54.71	51.2

4. Percentage grade gain including PbR in Sirohi



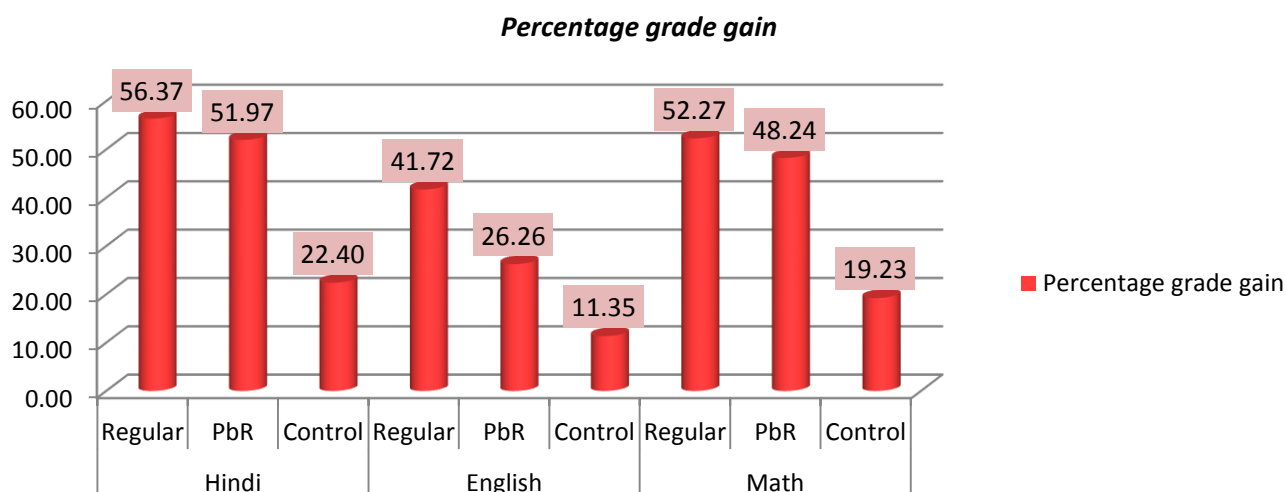
5. Basic info of Regular, PbR and Control blocks of Sirohi

Regular Blocks (Abu Road, Reodar, Pindwara)	PbR Block (Sirohi)	Control Block (Sheoganj)
Total Enrolled in grade 3,4 and 5	18747	4928
Total Appeared in Pre & Post Test	9436	2897
Either Pre or Post Absentees	4449	1298
Total Absentees (pre & post test)	4862	733

6. Comparison of Regular, PbR and Control blocks

Grade Gain Analysis_Regular_PbR_Control									
	Hindi			English			Math		
	Regular	PbR	Control	Regular	PbR	Control	Regular	PbR	Control
Maximum possible grade gain (in Number)	17289	7139	4300	25137	11532	7434	18417	7678	4118
Actual grade gained (in Number)	9745	3710	963	10486	3028	844	9627	3704	792
Maximum possible grade gain (in Average)	1.82	1.78	1.59	2.66	2.87	2.57	1.94	1.92	1.42
Actual grade gained (in Average)	1.03	0.93	0.33	1.11	0.75	0.29	1.02	0.92	0.27
Percentage grade gain	56.37	51.97	22.40	41.72	26.26	11.35	52.27	48.24	19.23

7. Percentage Grade gain in Regular, PbR and Control Schools



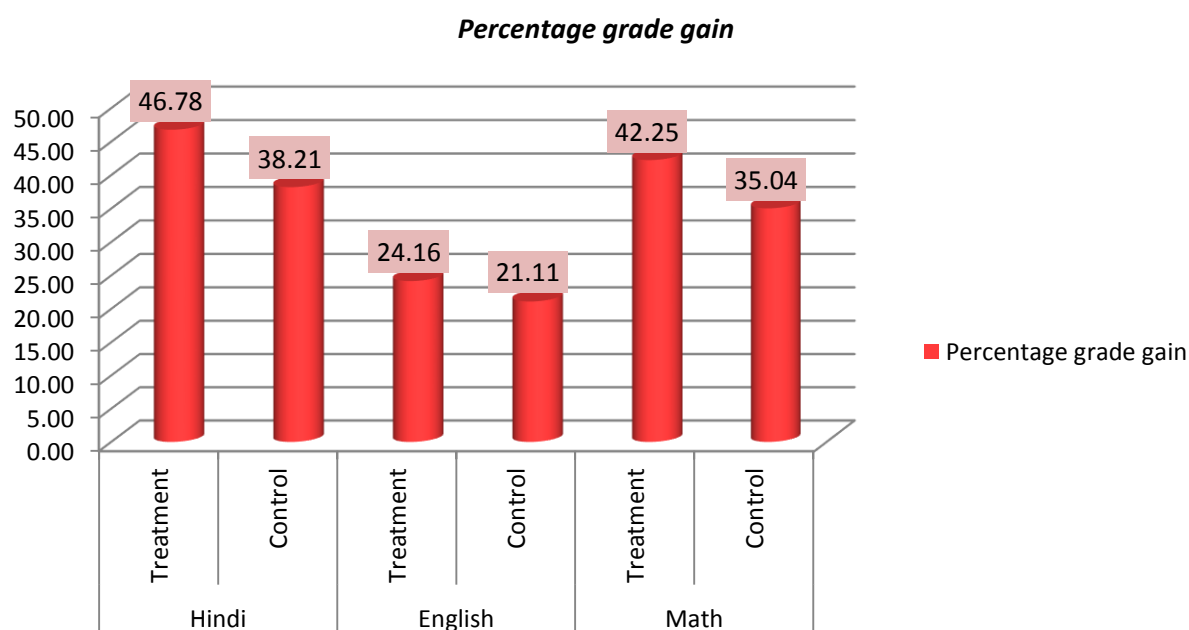
8. Basic Info-RCT-Jalore

BASIC INFO		
	Treatment	Control
Total Enrolled in grade 3,4 and 5	4936	4626
Total Appeared in Pre & Post Test	2570	2485
Either Pre or Post Absentees	1457	1384
Total Absentees (pre & post test)	673	557
Newly enrolled after pre-tests	18	7
Newly Enrolled after pre test and drop out for post test	5	0
Dropouts	213	193

9. Grade gain analysis-RCT-Jalore

Grade Gain Analysis_RCT_Jalore						
	Hindi		English		Math	
	Treatment	Control	Treatment	Control	Treatment	Control
Maximum possible grade gain (in Number)	3963	3803	6063	6044	4301	4210
Actual grade gained (in Number)	1854	1453	1465	1276	1817	1475
Maximum possible grade gain (in Average)	1.54	1.53	2.36	2.43	1.67	1.69
Actual grade gained (in Average)	0.72	0.58	0.57	0.51	0.71	0.59
Percentage grade gain	46.78	38.21	24.16	21.11	42.25	35.04

10. Percentage grade gain in RCT, Jalore



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