#### [Taleemabad Evaluation by CERP Analytics](#taleemabad-evaluation-by-cerp-analytics)

1. Basic Introduction 2.Summary of results produced by Taleemabad. 3.Analytics by CERP: 4.Sampling Methodology: Power and standard errors: 5.Balance Tests (ASER, TEACH MELQO):

* Attrition: Table
* Balance Test(s): Tables: 1 for learning outcome vars and other relevant variables

6.Results replications (diff-in-diff) regression at school level to measure treatment effect. (ASER, TEACH MELQO)

Changes to test

7. Other analysis avenues/data visualization(s) to be explored:

* Looking at the frequency of schools that were in baseline and endline (Consistent), schools which were only in baseline (Attrition) and schools which were only in endline (Replacement).

matching | Freq. Percent Cum.

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Attrition | 42 19.00 19.00

Replacement | 148 66.97 85.97

Consistent | 31 14.03 100.00

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Total | 221 100.00

| treatment

matching | 0 1 . | Total

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Attrition | 15 27 0 | 42

Replacement | 0 19 129 | 148

Consistent | 15 16 0 | 31

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Total | 30 62 129 | 221

* Balance checks

0: 1: p-value f~y:

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(mean) age\_b:mean 8.256 8.180 0.740

(mean) aser\_b\_e\_capital\_per:mean 96.418 98.282 0.128

(mean) aser\_b\_e\_small\_per:mean 95.533 96.769 0.405

(mean) aser\_b\_e\_words\_per:mean 73.454 83.687 0.042

(mean) aser\_b\_e\_word\_meaning\_~r:mean 66.040 74.112 0.124

(mean) aser\_b\_e\_read\_sent\_per:mean 68.968 81.253 0.074

(mean) aser\_b\_e\_sent\_flue\_per:mean 65.705 71.700 0.287

(mean) aser\_b\_e\_sent\_meaning\_~r:mean 62.110 65.148 0.623

(mean) aser\_b\_u\_read\_sent\_per:mean 69.194 73.083 0.535

(mean) aser\_b\_u\_sent\_flue\_per:mean 55.682 61.207 0.335

(mean) aser\_b\_u\_words\_per:mean 63.502 70.765 0.190

(mean) aser\_b\_u\_letters\_per:mean 64.758 74.468 0.169

(mean) aser\_b\_u\_story\_flue\_per:mean 62.914 75.232 0.001

(mean) aser\_b\_u\_comp\_per:mean 68.552 79.434 0.084

(mean) aser\_b\_m\_minus\_2digit\_~r:mean 63.324 77.623 0.098

(mean) aser\_b\_m\_minus\_3digit\_~r:mean 56.608 70.565 0.083

(mean) aser\_b\_m\_100\_200\_per:mean 84.064 80.917 0.620

(mean) aser\_b\_m\_10\_99\_per:mean 71.724 79.455 0.291

(mean) aser\_b\_m\_1\_9\_per:mean 73.013 89.228 0.097

(mean) aser\_b\_m\_division\_per:mean 46.337 58.095 0.178

(mean) aser\_b\_m\_time\_per:mean 36.882 41.461 0.575

(mean) aser\_b\_m\_word\_problem\_~r:mean 47.662 50.223 0.733

(mean) aser\_b\_m\_shape\_name\_per:mean 67.816 86.978 0.015

(mean) aser\_b\_gk\_act\_1\_per:mean 82.694 95.272 0.087

(mean) aser\_b\_gk\_act\_2\_per:mean 83.347 94.887 0.110

(mean) aser\_b\_gk\_pic\_1\_per:mean 100.000 100.000 .

(mean) aser\_b\_gk\_pic\_2\_per:mean 100.000 100.000 .

(mean) aser\_b\_gk\_pic\_3\_per:mean 100.000 100.000 .

0: 1: p-value f~y:

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(mean) age\_e:mean 8.679 8.265 0.063

(mean) aser\_e\_e\_capital\_per:mean 89.208 92.009 0.013

(mean) aser\_e\_e\_small\_per:mean 82.558 86.116 0.229

(mean) aser\_e\_e\_words\_per:mean 75.454 73.894 0.556

(mean) aser\_e\_e\_word\_meaning\_~r:mean 63.035 65.272 0.874

(mean) aser\_e\_e\_read\_sent\_per:mean 73.139 81.033 0.096

(mean) aser\_e\_e\_sent\_flue\_per:mean 71.570 74.950 0.566

(mean) aser\_e\_e\_sent\_meaning\_~r:mean 63.010 69.155 0.596

(mean) aser\_e\_u\_read\_sent\_per:mean 69.429 71.543 0.876

(mean) aser\_e\_u\_sent\_flue\_per:mean 63.083 60.778 0.940

(mean) aser\_e\_u\_words\_per:mean 63.442 62.099 0.624

(mean) aser\_e\_u\_letters\_per:mean 61.033 51.141 0.462

(mean) aser\_e\_u\_story\_flue\_per:mean 69.563 70.821 0.855

(mean) aser\_e\_u\_comp\_per:mean 72.142 74.395 0.715

(mean) aser\_e\_m\_minus\_2digit\_~r:mean 85.970 70.305 0.205

(mean) aser\_e\_m\_minus\_3digit\_~r:mean 73.918 80.875 0.675

(mean) aser\_e\_m\_100\_200\_per:mean 76.234 75.389 0.314

(mean) aser\_e\_m\_10\_99\_per:mean 62.222 78.122 0.016

(mean) aser\_e\_m\_1\_9\_per:mean 47.778 70.833 0.123

(mean) aser\_e\_m\_division\_per:mean 70.216 67.086 0.505

(mean) aser\_e\_m\_time\_per:mean 62.461 57.598 0.430

(mean) aser\_e\_m\_word\_problem\_~r:mean 53.318 51.593 0.815

(mean) aser\_e\_m\_shape\_name\_per:mean 70.945 79.053 0.234

(mean) aser\_e\_gk\_act\_1\_per:mean 98.000 95.892 0.889

(mean) aser\_e\_gk\_act\_2\_per:mean 89.562 92.559 0.748

(mean) aser\_e\_gk\_pic\_1\_per:mean 100.000 100.000 .

(mean) aser\_e\_gk\_pic\_2\_per:mean 100.000 100.000 .

(mean) aser\_e\_gk\_pic\_3\_per:mean 100.000 100.000 .

0: 1: p-value f~y:

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(mean) melqo\_b\_ev\_edible\_num\_~r:mean 30.991 35.431 0.110

(mean) melqo\_b\_ev\_animal\_num\_~r:mean 26.340 31.474 0.039

(mean) melqo\_b\_pl\_let\_identif~p:mean 70.581 67.940 0.705

(mean) melqo\_b\_pl\_let\_sound\_per:mean 39.141 48.802 0.344

(mean) melqo\_b\_listcomp\_story~e:mean 53.558 62.077 0.442

(mean) melqo\_b\_name\_writing\_per:mean 46.777 54.333 0.044

(mean) melqo\_b\_pn\_verbal\_coun~p:mean 67.461 70.140 0.517

(mean) melqo\_b\_pn\_num\_identif~p:mean 59.376 61.795 0.021

(mean) melqo\_b\_ms\_shape1\_per:mean 66.595 76.057 0.202

(mean) melqo\_b\_ms\_shape2\_per:mean 74.863 71.204 0.415

(mean) melqo\_b\_ms\_shape3\_per:mean 52.398 61.790 0.148

0: 1: p-value f~y:

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(mean) melqo\_e\_ev\_edible\_num\_~r:mean 30.393 37.504 0.063

(mean) melqo\_e\_ev\_animal\_num\_~r:mean 27.248 32.919 0.165

(mean) melqo\_e\_pl\_let\_identif~p:mean 69.023 69.580 0.974

(mean) melqo\_e\_pl\_let\_sound\_per:mean 43.771 54.050 0.195

(mean) melqo\_e\_listcomp\_story~e:mean 55.829 63.389 0.131

(mean) melqo\_e\_name\_writing\_per:mean 51.137 62.051 0.314

(mean) melqo\_e\_pn\_verbal\_coun~p:mean 67.411 69.165 0.151

(mean) melqo\_e\_pn\_num\_identif~p:mean 60.194 61.704 0.542

(mean) melqo\_e\_ms\_shape1\_per:mean 65.320 75.959 0.201

(mean) melqo\_e\_ms\_shape2\_per:mean 69.641 69.114 0.880

(mean) melqo\_e\_ms\_shape3\_per:mean 49.146 60.506 0.042

0: 1: p-value f~y:

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(mean) age\_b:mean 9.813 9.612 0.755

(mean) aser\_b\_e\_sent\_per:mean 70.669 82.235 0.054

(mean) aser\_b\_e\_sent\_meaning\_~r:mean 62.262 72.830 0.086

(mean) aser\_b\_e\_story\_flue\_per:mean 65.265 77.858 0.027

(mean) aser\_b\_e\_comp\_per:mean 70.634 80.472 0.182

(mean) aser\_b\_e\_g1\_3\_sent\_per:mean 49.201 42.417 0.574

(mean) aser\_b\_e\_g1\_3\_sen\_mean~e:mean 39.514 28.917 0.179

(mean) aser\_b\_e\_g1\_3\_words\_per:mean 27.847 47.222 0.116

(mean) aser\_b\_e\_g1\_3\_meaning\_~r:mean 23.889 35.278 0.219

(mean) aser\_b\_e\_g1\_3\_small\_per:mean 46.528 63.273 0.437

(mean) aser\_b\_e\_g1\_3\_capital\_~r:mean 35.000 41.111 0.540

(mean) aser\_b\_u\_story\_flue\_per:mean 73.225 79.434 0.288

(mean) aser\_b\_u\_comp\_per:mean 77.580 89.251 0.053

(mean) aser\_b\_u\_g1\_3\_storyflu~p:mean 53.124 54.643 0.795

(mean) aser\_b\_u\_g1\_3\_compre\_per:mean 67.626 75.000 0.483

(mean) aser\_b\_u\_grammar\_per:mean 42.779 61.891 0.064

(mean) aser\_b\_u\_word\_sent\_per:mean 71.416 82.139 0.105

(mean) aser\_b\_u\_read\_sent\_per:mean 58.008 56.616 0.879

(mean) aser\_b\_u\_g1\_3\_sen\_flue~e:mean 48.414 47.285 0.874

(mean) aser\_b\_u\_g1\_3\_read\_wor~\_:mean 63.316 67.574 0.647

(mean) aser\_b\_u\_g1\_3\_read\_let~e:mean 53.530 63.512 0.407

(mean) aser\_b\_u\_mas\_fem\_per:mean 72.942 85.723 0.070

(mean) aser\_b\_m\_minus\_4digit\_~r:mean 56.562 75.198 0.092

(mean) aser\_b\_m\_minus\_5digit\_~r:mean 68.337 82.480 0.110

(mean) aser\_b\_m\_division\_per:mean 64.768 72.130 0.481

(mean) aser\_b\_m\_g1\_3\_minus\_3d~\_:mean 61.620 64.923 0.774

(mean) aser\_b\_m\_g1\_3\_minus\_2d~\_:mean 66.761 75.508 0.462

(mean) aser\_b\_m\_5digit\_nums\_per:mean 87.349 83.702 0.471

(mean) aser\_b\_m\_3digit\_nums\_per:mean 84.571 78.266 0.543

(mean) aser\_b\_m\_2digit\_nums\_per:mean 68.333 75.556 0.539

(mean) aser\_b\_m\_1digit\_nums\_per:mean 55.000 85.000 0.143

(mean) aser\_b\_m\_decimals\_per:mean 83.490 74.623 0.142

(mean) aser\_b\_m\_time\_per:mean 53.863 68.980 0.131

(mean) aser\_b\_m\_word\_problem\_~r:mean 50.591 60.485 0.341

(mean) aser\_b\_m\_g1\_3\_wordprob~e:mean 50.596 50.635 0.997

(mean) aser\_b\_m\_complete\_pat\_~r:mean 56.776 69.546 0.212

(mean) aser\_b\_gk\_act\_1\_per:mean 71.516 88.879 0.074

(mean) aser\_b\_gk\_act\_2\_per:mean 72.364 90.996 0.060

(mean) aser\_b\_gk\_pic\_1\_per:mean 100.000 100.000 .

(mean) aser\_b\_gk\_pic\_2\_per:mean 100.000 100.000 .

(mean) aser\_b\_gk\_pic\_3\_per:mean 100.000 100.000 .

0: 1: p-value f~y:

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(mean) age\_e:mean 8.926 9.759 0.000

(mean) aser\_e\_e\_sent\_per:mean 76.275 84.508 0.186

(mean) aser\_e\_e\_sent\_meaning\_~r:mean 62.344 72.151 0.256

(mean) aser\_e\_e\_story\_flue\_per:mean 71.089 76.216 0.509

(mean) aser\_e\_e\_comp\_per:mean 78.003 78.388 0.736

(mean) aser\_e\_e\_g1\_3\_sent\_per:mean 44.792 41.713 0.805

(mean) aser\_e\_e\_g1\_3\_sen\_mean~e:mean 33.482 25.324 0.631

(mean) aser\_e\_e\_g1\_3\_words\_per:mean 55.200 40.714 0.627

(mean) aser\_e\_e\_g1\_3\_meaning\_~r:mean 33.600 24.286 0.222

(mean) aser\_e\_e\_g1\_3\_small\_per:mean 81.000 66.667 0.847

(mean) aser\_e\_u\_story\_flue\_per:mean 72.091 77.819 0.601

(mean) aser\_e\_u\_comp\_per:mean 80.063 80.377 0.987

(mean) aser\_e\_u\_g1\_3\_storyflu~p:mean 54.242 58.156 0.507

(mean) aser\_e\_u\_g1\_3\_compre\_per:mean 69.152 71.071 0.473

(mean) aser\_e\_u\_grammar\_per:mean 94.924 77.642 0.121

(mean) aser\_e\_u\_word\_sent\_per:mean 79.024 83.204 0.688

(mean) aser\_e\_u\_read\_sent\_per:mean 58.490 60.863 0.508

(mean) aser\_e\_u\_g1\_3\_sen\_flue~e:mean 47.972 53.916 0.632

(mean) aser\_e\_u\_g1\_3\_read\_wor~\_:mean 66.892 66.369 0.319

(mean) aser\_e\_u\_g1\_3\_read\_let~e:mean 76.112 58.545 0.326

(mean) aser\_e\_u\_mas\_fem\_per:mean 85.229 83.559 0.934

(mean) aser\_e\_m\_minus\_4digit\_~r:mean 86.440 76.760 0.637

(mean) aser\_e\_m\_minus\_5digit\_~r:mean 88.405 82.141 0.649

(mean) aser\_e\_m\_division\_per:mean 80.442 81.816 0.790

(mean) aser\_e\_m\_g1\_3\_minus\_3d~\_:mean 60.265 73.819 0.432

(mean) aser\_e\_m\_g1\_3\_minus\_2d~\_:mean 62.500 65.711 0.945

(mean) aser\_e\_m\_5digit\_nums\_per:mean 67.396 80.537 0.092

(mean) aser\_e\_m\_3digit\_nums\_per:mean 69.388 82.963 0.529

(mean) aser\_e\_m\_2digit\_nums\_per:mean 37.460 63.333 0.107

(mean) aser\_e\_m\_1digit\_nums\_per:mean 32.222 48.333 0.095

(mean) aser\_e\_m\_decimals\_per:mean 66.382 78.678 0.070

(mean) aser\_e\_m\_time\_per:mean 79.199 73.429 0.333

(mean) aser\_e\_m\_word\_problem\_~r:mean 71.583 74.683 0.798

(mean) aser\_e\_m\_g1\_3\_wordprob~e:mean 37.484 46.869 0.074

(mean) aser\_e\_m\_complete\_pat\_~r:mean 77.238 81.004 0.852

(mean) aser\_e\_gk\_act\_1\_per:mean 97.384 94.335 0.725

(mean) aser\_e\_gk\_act\_2\_per:mean 92.120 95.372 0.433

(mean) aser\_e\_gk\_pic\_1\_per:mean 100.000 100.000 .

(mean) aser\_e\_gk\_pic\_2\_per:mean 100.000 100.000 .

(mean) aser\_e\_gk\_pic\_3\_per:mean 100.000 100.000 .