

Enrollment

Allocation

Follow up

Analysis

Assessed for eligibility (n = 1805)  
 • 884 female and 921 male students

Excluded (n = 35)  
 Students with Disabilities/  
 Special needs (n = 35)

Randomized (n = 1770)  
 • 869 female and 901 male students

Allocated to **control** group(n = 753)  
 • 367 female and 386 male students

Allocated to **experimental** group (n = 1017)  
 • 502 female and 515 male students

Lost to follow up  
 (n = 237) (did not answer pre-test or  
 post-test for vocabulary)

Lost to follow up  
 (n = 268) (did not answer pre-test  
 or post-test evaluation for

Lost to follow up  
 (n = 304) (did not answer pre-test or  
 post-test for vocabulary)

Lost to follow up  
 (n = 381) (did not answer pre-test or  
 post-test for writing)

Analyzed for vocabulary (n = 516)  
 • 259 female and 257 male students

For ANCOVA of Group (n = 515)  
 • Exclude (n = 1) (to achieve normality)

For ANCOVA of Group:Gender (n = 515)  
 • Exclude (n = 1) (to achieve normality)

For ANCOVA of Group:School.Area  
 (n = 366)  
 • Exclude (n = 149) (not declared)  
 • Exclude (n = -1) (to achieve normality)

For ANCOVA of Group:Ethnicity  
 (n = 235)  
 • Exclude (n = 280) (not declared)  
 • Exclude (n = 1) (to achieve normality)

For ANCOVA of Group:Grade (n = 515)  
 • Exclude (n = 1) (to achieve normality)

For ANCOVA of Group:Quintile (n = 515)  
 • Exclude (n = 1) (to achieve normality)

Analyzed (n = 485)  
 • 247 female and 238 male students

For ANCOVA of Group (n = 424)  
 • Exclude (n = 61) (to achieve normality)

For ANCOVA of Group:Gender (n = 419)  
 • Exclude (n = 66) (to achieve normality)

For ANCOVA of Group:School.Area  
 (n = 329)  
 • Exclude (n = 133) (not declared)  
 • Exclude (n = 23) (to achieve normality)

For ANCOVA of Group:Ethnicity  
 (n = 206)  
 • Exclude (n = 262) (not declared)  
 • Exclude (n = 17) (to achieve normality)

For ANCOVA of Group:Grade (n = 455)  
 • Exclude (n = 30) (to achieve normality)

For ANCOVA of Group:Quintile (n = 446)  
 • Exclude (n = 39) (to achieve normality)

Analyzed for vocabulary (n = 713)  
 • 368 female and 345 male students

For ANCOVA of Group (n = 713)  
 • Exclude (n = 0) (to achieve normality)

For ANCOVA of Group:Gender (n = 713)  
 • Exclude (n = 0) (to achieve normality)

For ANCOVA of Group:School.Area  
 (n = 483)  
 • Exclude (n = 230) (not declared)  
 • Exclude (n = 0) (to achieve normality)

For ANCOVA of Group:Ethnicity  
 (n = 281)  
 • Exclude (n = 430) (not declared)  
 • Exclude (n = 2) (to achieve normality)

For ANCOVA of Group:Grade (n = 713)  
 • Exclude (n = 0) (to achieve normality)

For ANCOVA of Group:Quintile (n = 713)  
 • Exclude (n = 0) (to achieve normality)

Analyzed for vocabulary (n = 636)  
 • 319 female and 317 male students

For ANCOVA of Group (n = 557)  
 • Exclude (n = 79) (to achieve normality)

For ANCOVA of Group:Gender (n = 555)  
 • Exclude (n = 81) (to achieve normality)

For ANCOVA of Group:School.Area  
 (n = 411)  
 • Exclude (n = 185) (not declared)  
 • Exclude (n = 40) (to achieve normality)

For ANCOVA of Group:Ethnicity  
 (n = 248)  
 • Exclude (n = 369) (not declared)  
 • Exclude (n = 19) (to achieve normality)

For ANCOVA of Group:Grade (n = 601)  
 • Exclude (n = 35) (to achieve normality)

For ANCOVA of Group:Quintile (n = 571)  
 • Exclude (n = 65) (to achieve normality)