Assessment of TOPS Foundations Activities 2011-2012

Direct assessment using release questions drawn largely from the Eighth Grade California Standards Test shows the following increase in student conceptual understanding of topics associated with the hands-on activity:

Topic: Motion
Number of Participants: 82
Change in Score: 21% increase (post-pre)
Analysis of variance shows this change is highly statistically significant  \( F(1, 81) = 16.3, p < 0.001, \eta^2 = 0.17 \) with a large effect size of the activity on student scores.