

# Making Work Easier Instrument

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## *Reliability Report*

Scales for the Making Work Easier (SM) instrument were constructed from a sample of 523 students completing post-assessments (version 3/4/2010). An “All” scale, consisting of all 34 items, was calculated by summing corrected answers. This was tested for internal reliability and was found to have a Cronbach’s  $\alpha$  of .748 (n=468). To increase reliability, questions 16, 21, and 28 were dropped for their negative impact. The new “All” scale, formed from the remaining 31 items, had a Cronbach’s  $\alpha$  of .741 (n=471). The scales of the SM instrument are presented in the table below.

| Scale                 | N of Students | # Items | Items                                 | Reliability: Cronbach’s $\alpha$ |
|-----------------------|---------------|---------|---------------------------------------|----------------------------------|
| All                   | 471           | 31      | 1-15, 17-20, 22-27, 29-34             | .761                             |
| Using Simple Machines | 499           | 15      | 1, 4, 13-15, 17-20, 22, 24-26, 29, 30 | .685                             |