

Designing Parachutes Instrument

Reliability Report

Scales for the Designing Parachutes (PA) instrument were constructed from 2113 students completing a pre- and post-assessment. Summed correct answers for the 10 questions on the post-assessments formed an “All” scale, which was tested for internal reliability. This scale was found to have a Cronbach’s α of .574 (n=1991). A science subscale was also calculated for post-assessments and is presented in the table below.

Scale	N of Students	# Items	Items	Reliability: Cronbach’s α
All	1991	10	1-6, 7a-d (7 contains 4 true/false statements)	.574
Science	2016	5	5, 6, 7b-d	.503