Common Measure: Science, Middle and High School

**Instrument:** Mathematics and Science Attitude Survey

**Scale:** Interest in Science

**Source:** [http://oerl.sri.com/instruments/up/studsurv/instr129.html](http://oerl.sri.com/instruments/up/studsurv/instr129.html)

**Developers:** Elizabeth Paciorek, Rochester Institute of Technology "Project EDGE", One Lomb Memorial Drive Rochester, NY 14723, Phone (716) 475-5084, (716) 475-5766 (fax)

**Year:** 1997

**Target Audience(s):** High School and College girls/women

**Language other than English available:** No information available

**Type:** Attitude

**Data collected:** Quantitative

**Data collection format:** Self-report – Pre/post

**Reading Level:** Flesch-Kincaid Grade level: 5.0

**Existence of test/technical manuals, user guides, supplemental materials:** None

**Level of training necessary for administration/scoring/interpretation:** None necessary for administration. Basic understanding of statistical methods for scoring

**Widespread Use/Professional Endorsements:** Listed as an evaluation measure for underrepresented populations on OERL, the Online Evaluation Resource Library website; developed as part of an NSF (Program for Women and Girls (HRD)) funded project.

**Cost of Use:** No cost is associated with the use of this survey, *but developer must be contacted.*

**Description:**
- Instrument developed to measure female high school and college students’ attitudes toward mathematics and science.
- 12 closed-ended, 4-pt Likert scale questions.
Psychometrics:
Information on reliability and validity are provided below. If information on a particular psychometric was not found, it is indicated as “no information provided.” It should be noted that this is not necessarily an indication of a lack of reliability or validity within a particular scale/instrument, but rather a lack of rigorous testing, for various reasons, by the developers or other researchers.

Reliability: A correlation of at least .80 is suggested for at least one type of reliability as evidence; however, standards range from .5 to .9 depending on the intended use and context for the instrument.

- Internal Consistency: No information provided
- Inter-rater reliability: No information provided
- Test-Retest: No information provided

Validity: The extent to which a measure captures what it is intended to measure.

- Content/Face Validity: No information provided
- Criterion Validity: No information provided
- Construct Validity: No information provided

References:
OERL, the Online Evaluation Resource Library
http://oerl.sri.com/instruments/up/studsurv/instr129.html