

## Scoring Guide for the STEM Semantics Survey Version 2.0

Version 2.0 of the STEM Semantic survey has 25 items on 5 scales. Each scale has the same 5 adjective descriptors but 3 are negatively worded and need to be reversed for every scale (7 becomes 1, 6 becomes 2, etc.). However, each scale is counterbalanced for reversals so a single procedure cannot be applied to all scales. Scale scores are produced by averaging the following items:

Science: Sci 1Reversed, Sci 2Reversed, Sci 3Reversed, Sci 4, Sci 5

Math: Math 1, Math 2 Reversed, Math 3 Reversed, Math 4 Reversed, Math 5

Engineering: Eng 1 Reversed, Eng 2 Reversed, Eng 3, Eng 4 Reversed, Eng 5

Technology: Tech 1 Reversed, Tech 2, Tech 3, Tech 4 Reversed, Tech 5 Reversed

Career: Career 1, Career 2, Career 3 Reversed, Career 4 Reversed, Career 5 Reversed

Cronbach's alpha for each scale is typically in the range of .85 - .95.

### STEM Semantics Survey

Gender: M / F

**This five-part questionnaire is designed to assess your perceptions of scientific disciplines. It should require about 5 minutes of your time. Usually it is best to respond with your first impression, without giving a question much thought. Your answers will remain confidential.**

<b>ID:</b> _____ <b>School:</b> _____	Use the assigned ID or the year and day of your birthday (ex: 9925 if born on the 25 <sup>th</sup> day of any month in 1999.
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**Instructions: Choose one circle between each adjective pair to indicate how you feel about the object.**

**To me, SCIENCE is:**

<b>1R.</b>	fascinating	①	②	③	④	⑤	⑥	⑦	ordinary
<b>2R.</b>	appealing	①	②	③	④	⑤	⑥	⑦	unappealing
<b>3R.</b>	exciting	①	②	③	④	⑤	⑥	⑦	unexciting
4R.	means nothing	①	②	③	④	⑤	⑥	⑦	means a lot
5R.	boring	①	②	③	④	⑤	⑥	⑦	interesting

**To me, MATH is:**

1.	boring	①	②	③	④	⑤	⑥	⑦	interesting
<b>2R.</b>	appealing	①	②	③	④	⑤	⑥	⑦	unappealing
<b>3R.</b>	fascinating	①	②	③	④	⑤	⑥	⑦	ordinary
<b>4R.</b>	exciting	①	②	③	④	⑤	⑥	⑦	unexciting
5.	means nothing	①	②	③	④	⑤	⑥	⑦	means a lot

**To me, ENGINEERING is:**

1R.	appealing	①	②	③	④	⑤	⑥	⑦	unappealing
2R.	fascinating	①	②	③	④	⑤	⑥	⑦	ordinary
3.	means nothing	①	②	③	④	⑤	⑥	⑦	means a lot
4R.	exciting	①	②	③	④	⑤	⑥	⑦	unexciting
5.	boring	①	②	③	④	⑤	⑥	⑦	interesting

**To me, TECHNOLOGY is:**

1R.	appealing	①	②	③	④	⑤	⑥	⑦	unappealing
2.	means nothing	①	②	③	④	⑤	⑥	⑦	means a lot
3.	boring	①	②	③	④	⑤	⑥	⑦	interesting
4R.	exciting	①	②	③	④	⑤	⑥	⑦	unexciting
5R.	fascinating	①	②	③	④	⑤	⑥	⑦	ordinary

**To me, a CAREER in science, technology, engineering, or mathematics (is):**

1.	means nothing	①	②	③	④	⑤	⑥	⑦	means a lot
2.	boring	①	②	③	④	⑤	⑥	⑦	interesting
3R.	exciting	①	②	③	④	⑤	⑥	⑦	unexciting
4R.	fascinating	①	②	③	④	⑤	⑥	⑦	ordinary
5R.	appealing	①	②	③	④	⑤	⑥	⑦	unappealing

Thank you for your time.  
STEM v. 2.0 by G. Knezek & R. Christensen 5/2010