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:

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

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.

ID: _______________  School: ____________
Use the assigned ID or the year and day of your birthday (ex: 9925 if born on the 25th day of any month in 1999.

Instructions: Choose one circle between each adjective pair to indicate how you feel about the object.

To me, SCIENCE is:

<table>
<thead>
<tr>
<th>1R. fascinating</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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<tr>
<td>2R. appealing</td>
<td>1</td>
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<td>3R. exciting</td>
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<td>4R. means nothing</td>
<td>1</td>
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<td>5R. boring</td>
<td>1</td>
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To me, MATH is:

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To me, ENGINEERING is:

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To me, TECHNOLOGY is:

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

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<th></th>
<th>means nothing</th>
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Thank you for your time.

STEM v. 2.0 by G. Knezek & R. Christensen 5/2010