

Supplement to Relationships and gender differences in math anxiety, math self-efficacy, geoscience self-efficacy, and geoscience interest in introductory geoscience students

All measures were presented in a counterbalanced order, and each scale was preceded by the following instructions:

“Below are questions related to your [variable]. Please indicate to what extent you agree with each of the statements below. Some questions may seem repetitive, that is intentional.”

Math Anxiety: Abbreviated Math Anxiety Scale [93]

	Low anxiety	Some anxiety	Moderate anxiety	Quite a bit of anxiety	High anxiety
Having to use tables in the back of a math book.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thinking about an upcoming math test one day before.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Watching a teacher work an algebraic equation on the board.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Taking a math exam.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Being given a homework assignment of many difficult problems which is due next class meeting.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Low anxiety	Some anxiety	Moderate anxiety	Quite a bit of anxiety	High anxiety
Listening to a lecture in math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Listening to another student explain a math formula.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Being given a "pop quiz" in math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Starting a new chapter in a math textbook.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Math Self-Efficacy: Math Self-Efficacy Scale [94]

	Not at all confident	A little confident	Confident	A lot confident	Very confident
A simultaneous equation	<input type="radio"/>				
Work with decimals	<input type="radio"/>				
Determine the degrees of a missing angle	<input type="radio"/>				
An algebra problem	<input type="radio"/>				
A problem in trigonometry	<input type="radio"/>				
	Not at all confident	A little confident	Confident	A lot confident	Very confident
Calculate the values of area and volume	<input type="radio"/>				
Sketch a curve	<input type="radio"/>				
Work with fractions	<input type="radio"/>				
Determine the value of a missing side length	<input type="radio"/>				

Geoscience Self-Efficacy: 4 items used by Pugh et al.[69]

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
I'm certain I can figure out how to do the most difficult class work in my geoscience course(s).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can do almost all the work in my geoscience course(s) if I don't give up.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Even if the work in my geoscience course(s) is hard, I can learn it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can do even the hardest work in my geoscience course(s) if I try.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Geoscience Interest: 9 items used by Pugh et al., [65]

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
Geoscience concepts are valuable because they will help me in the future.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geoscience concepts are practical for me to know.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geoscience concepts will be useful for me later in life.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geoscience concepts help me in daily life outside of school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I enjoy the geosciences.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
I am fascinated by the geosciences.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like the geosciences.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I enjoy doing geoscience activities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The geosciences are exciting to me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>