Evaluation Measures



Science Motivation Questionnaire-II

OVERVIEW

This scale assesses students' motivation to learn science

SUBSCALES

- Intrinsic Motivation
 - Learning science is interesting
- Self-Efficacy
 - I believe I can master science knowledge and
- Self-Determination
 - I use strategies to learn science well
- Grade Motivation
 - It is important that I get an "A" in science
- Career Motivation
 - My career will involve science

رد THEME(S)

- Education, Training, & Apprenticeships
 - -Youth achieve academic success
- -Youth have educational experiences that respond to their needs and prepare them to lead

TARGET POPULATION

Youth from 13 years of age or older



- Responses to the scale range from 0 (never) to 4 (always)
- Self-report, paper-pencil version
- Available in: English, Chinese, Dutch, German, Greek, Japanese, Korean, Russian, Spanish, and Turkish

- Glynn, S. M., 2011
- Glynn & Koballa, 2006



GOOD TO KNOW

- -This measure is copyrighted by the Shawn M. Glynn, University of Georgia, USA
- -Permission and Directions: Educators who wish to use the Science Motivation Questionnaire © 2006 by Shawn M. Glynn & Thomas R. Koballa, Jr., for research and teaching have permission to do so if they cite the Glynn & Koballa (2006) and Glynn et al. (2009) references below and comply with the fair use of this copyrighted and registered questionnaire.
- Separate questionnaires to measure students' motivation to learn biology, chemistry, and physics are also available.

♪ PSYCHOMETRICS

RELIABILITY

- High reliability (internal consistency $\alpha > .90$)

VALIDITY

- -Content validity
- -Construct validity
- -Criterion-related

Learn more:

- Glynn, S. M., & Koballa, T. R., Jr. (2006). Motivation to learn college science. In J. J. Mintzes & W. H. Leonard (Eds.), Handbook of college science teaching (pp. 25-32). Arlington, VA: National Science Teachers Association Press.
- Glynn, S. M., Taasoobshirazi, G., & Brickman, P. (2009). Science Motivation Questionnaire: Construct validation with nonscience majors. Journal of Research in Science Teaching, 46, 127-146.

Science Motivation Questionnaire II (SMQ-II): Components

© 2011 Shawn M. Glynn, University of Georgia, USA

In order to better understand what you think and how you feel about your science courses, please respond to each of the following statements from the perspective of "When I am in a science course..."

Components (Scales) and Statements (Items)	Never 0	Rarely 1	Sometimes 2	Often 3	Always 4
Intrinsic Motivation					
01. The science I learn is relevant to my life.					
03. Learning science is interesting.					
12. Learning science makes my life more meaningful.					
17. I am curious about discoveries in science.					
19. I enjoy learning science.					
Self-Efficacy					
09. I am confident I will do well on science tests.					
14. I am confident I will do well on science labs and projects.					
15. I believe I can master science knowledge and skills.					
18. I believe I can earn a grade of "A" in science.					
21. I am sure I can understand science.					
Self-Determination					
05. I put enough effort into learning science.					
06. I use strategies to learn science well.					
11. I spend a lot of time learning science.					
16. I prepare well for science tests and labs.					
22. I study hard to learn science.					
Grade Motivation					
02. I like to do better than other students on science tests.					
04. Getting a good science grade is important to me.					
08. It is important that I get an "A" in science.					
20. I think about the grade I will get in science.					
24. Scoring high on science tests and labs matters to me.					
Career Motivation					
07. Learning science will help me get a good job.					
10. Knowing science will give me a career advantage.					
13. Understanding science will benefit me in my career.					
23. My career will involve science.					
25. I will use science problem-solving skills in my career.					

Note. The SMQ-II is copyrighted and registered. Go to http://www.coe.uga.edu/smq/ for permission and directions to use it and its discipline-specific versions such as the Biology Motivation Questionnaire II (BMQ-II), Chemistry Motivation Questionnaire II (CMQ-II), and Physics Motivation Questionnaire II (PMQ-II) in which the words biology, chemistry, and physics are respectively substituted for the word science. Versions in other languages are also available.