

CONSENT FORM

This assessment is part of a research study designed to understand students' quantitative and computational skills in a science course. We ask that you read this form carefully and ask any questions you may have before agreeing to be in the study.

This study is being conducted by Andrew Zieffler, Ph.D., and Laura Le, who are members of the Department of Educational Psychology at the University of Minnesota, and Laura Ziegler, Ph.D., who is a member of the Department of Statistics at Iowa State University.

Background Information:

This research is part of a four-year project to evaluate the quantitative and computational skills of students in an introductory biology course and to test the impact of several innovative materials for teaching introductory science courses.

Procedures:

You will complete an assessment that includes items that attempt to capture your current quantitative and computational skills.

Compensation:

There is no compensation for participating in this research study.

Consent:

We are asking for your permission to use your responses to the Biology Science Quantitative Reasoning Exam

(BioSQuaRE) in the research project.

Risks and Benefits of Being in the Study:

There are no known risks to you as a participant.

There is no direct benefit to subjects who participate in this study.

Confidentiality:

The records of this study will be kept private. In any sort of report we might publish, we will not include any information that will make it possible to identify you as a participant. Data from the paper copies will be recorded and then transcribed by the researchers. After the paper copies are transcribed, they will be destroyed. All data will be de-identified and stored on a computer. Only the researchers conducting this study will have access to the records.

Voluntary Nature of the Study:

Participation in this study is voluntary. Your decision whether or not to participate will not affect your current or future relations with your institution. If you decide to participate, you are free to withdraw at any time without affecting those relationships.

Contacts and Questions:

The researchers conducting this study are Andrew Zieffler, Ph.D., Laura Le, and Laura Ziegler, Ph.D. You may ask any questions you have now. If you have questions later, **you are encouraged** to contact Andrew Zieffler at University of Minnesota, 56 Educational Sciences Building, Room 250, Minneapolis, MN, 55455 (Phone: 612-624-6083; email: zief0002@umn.edu), Laura Le at University of Minnesota, 56 Educational Sciences Building, Room 250, Minneapolis, MN, 55455 (Phone: 608-220-3103; email: free0312@umn.edu), or Laura Ziegler at Iowa State University, Snedecor Hall, Room 3409, Ames, IA, 50010 (email: lziegler@iastate.edu).

If you have any questions or concerns regarding the study and would like to talk to someone other than the researchers, **you are encouraged** to contact the Research Subjects' Advocate line, D528 Mayo, 420 Delaware Street S.E., Minneapolis, Minnesota 55455; telephone 612-625-1650.

For students from Oberlin College: For questions related to your rights as a research subject at Oberlin College, you may also contact Pablo Mitchell (email: pablo.mitchell@oberlin.edu), Chair Institutional Review Board for Use of Human Subjects in Research.

For students of Bryn Mawr College: For questions related to your rights as a research subject at Bryn Mawr College, you may also contact Leslie Alexander (email: lalexand@brynmawr.edu), Chair of the Institutional Review Board for Use of Human Subjects in Research.

Statement of Consent:

I have read the above information. I have had the opportunity to ask questions and receive answers.

Please select the item below for which you do or do not give your permission.

- I DO give permission for my written responses to the Biology Science Quantitative Reasoning Exam (BioSQuaRE) to be used for research purposes.
- I DO NOT give permission for my written responses to the Biology Science Quantitative Reasoning Exam (BioSQuaRE) to be used for research purposes.

Signature of Investigators

Laura Le
Laura A. Ziegler
Antonia Ziegler

Date 8/5/2014

Date 8/5/2014

Date 8/5/2014



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