

THE UNIVERSITY OF BRITISH COLUMBIA



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University of British Columbia Consent Agreement

Title: A study of mathematics and science educators' awareness of, attitudes about, and intention of using technology

Dear mathematics and science educators, you are being asked to participate in a research study. Before you give your consent to be a volunteer, it is important that you read the following information. If needed please feel free to ask us as many questions as necessary to be sure you understand what you will be asked to do.

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Purpose of the Study: Technology-enhanced pedagogies have a great potential to improve student understanding of and engagement with mathematics and science (M&S) education. However, the success of technology implementation depends on teachers' skills and abilities to use it effectively. Therefore, it is important that M&S educators are aware of how technology can be implemented and how it can promote student learning. In addition, educators' attitudes about technology-enhanced pedagogies in M&S classroom play an important role in its implementation. Our study will investigate M&S pre-service and in-service teachers', as well as teacher-educators' attitudes and awareness about technology, and their intention of using it to promote M&S learning.

Description of the Study: The research investigates how M&S educators use modern technology in their teaching. The goal of the study is to find out what can be done in order to promote pedagogically effective use of technology and how its use shapes educators' teaching philosophy. The participants will be asked to take part in 12-15 minute long online survey.

What is Experimental in this Study: On-line survey will be used. The participants are pre-service teachers, in-service teachers, and teacher educators. None of the questions used in this study are experimental in nature. The only experimental aspect of this study is the gathering of information for the purpose of analysis.

Risks or Discomforts: Although the researchers are not aware of the apparent risks of the study, we understand that you might feel uncomfortable answering all the questions during the survey. Should this situation arise, please discontinue answering the questions either temporarily or permanently and get in touch with Dr. Marina Milner-Bolotin (marina.milner-bolotin@ubc.ca) or Dr. Jungsook Oh (e-mail: jsoh@daegu.ac.kr) as soon as possible.

Benefits of the Study: We expect you will benefit from participation in the study in the following ways:

- a) Participating M&S educators will have a chance to reflect on their use of modern technologies thus having an opportunity to examine their pedagogies and explore ways of improving them.
- b) Taking part in study will make the participants aware of the possibilities of the use of educational technologies in M&S and effective ways of their implementation. We hope that it will enhance M&S educators' pedagogy and effectiveness in using educational technologies in their classes.

Confidentiality: All the data collected in the study will be strictly confidential and nobody except for the researchers will have access to it. All the data will be stored electronically on a password protected computer on a secure UBC server. The data will be erased and destroyed in five years after the completion of the study (Fall 2020). The confidentiality will be maintained during the publication of the results of the study: no names or any other personal information will be included in the publications.

Incentives to Participate: The participant will not be paid to participate in this study.

Voluntary Nature of Participation: Participation in this study is voluntary. Your choice of whether or not to participate will not influence your future relations with the University of British Columbia and the Department of Curriculum and Pedagogy of the Faculty of Education. If you decide to participate, you are free to withdraw your consent and to stop your participation at any time without penalty or loss of benefits to which you are allowed.

At any particular point in the study, you may refuse to answer any particular question or stop your participation altogether.

Questions about the Study: If you have any questions about the research now, please ask. If you have questions later about the research, you may contact.

PI/Study Coordinator: Dr. Marina Milner-Bolotin
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If you have any concerns or complaints about your rights as a research participant and/or your experiences while participating in this study, contact the Research Participant Complaint Line in the UBC Office of Research Ethics at 604-822-8598 or if long distance e-mail: RSIL@ors.ubc.ca or call toll free 1-877-822-8598

Agreement:

Your signature below indicates that you have read the information in this agreement and have had a chance to ask any questions you have about the study. Your signature also indicates that you agree to be in the study and have been told that you can change your mind and withdraw your consent to participate at any time. You have been given a copy of this agreement.

You have been told that by signing this consent agreement you are not giving up any of your legal rights.

Name of Participant (please print)

Signature of Participant

Date

Signature of Investigator

Date