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CONSENT TO PARTICIPATE IN A RESEARCH STUDY

Study Title: *TRIUMPHS: Transforming Instruction in Undergraduate Mathematics via Primarily Historical Sources*

Principal Investigator: Kathleen M. Clark, PhD

Introduction

You are invited to participate in a research study that is part of an educational grant funded by the Division of Undergraduate Education of the National Science Foundation (NSF) and is led by an educational researcher at Florida State University.

Before you decide to take part, please take as much time as you need to ask any questions and discuss this study with anyone on the FSU research team, or with family, friends or your personal physician or other professional.

Key information about the research study

Things you should know:

- The purpose of the TRIUMPHS study is to support the development, testing, and publication of curricular materials based on primary historical sources in mathematics. In addition to fulfilling the NSF required evaluation component, the result of this study will help us to investigate the role of these classroom materials in supporting student learning in mathematics.
- You will complete two surveys (approximately 20 minutes for each) and if you are selected, participate in a follow-up interview (approximately 60 minutes).
- A select number of mathematics course instructors may be invited to participate in an in-depth study of implementation of a PSP they choose to site test. If you are selected, classroom instruction and discussions will be audio and video recorded.
- Complete and submit a “project implementation report” that documents your implementation of instruction using the Primary Source Projects (PSPs) that you implement in a given semester. Much of the documentation requested is most likely part of your existing teaching practice and the amount of time you spend on this may vary.

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- Risks or discomforts from this research include some discomfort during the interviews, particularly if you have not participated in interviews before. You may feel uncomfortable sharing your views about teaching and student learning of mathematics on surveys and in an interview (if you are selected). You may feel nervous about having your instruction audio and video recorded, if you are selected to do so.
- The study will not provide direct benefits to participants. However, you may experience satisfaction in contributing to the development and evaluation of curricular materials for use in undergraduate mathematics teaching.
- Taking part in this research project is voluntary. You don't have to participate and you can stop at any time.

Please take time to read this entire form and ask questions before deciding whether to take part in this research project.

Why is this study being done?

This study is being conducted by Kathleen Clark, PhD, Associate Professor of Mathematics Education, School of Teacher Education, Florida State University.

The purpose of the study is to evaluate and conduct research on undergraduate mathematics students' experience with learning mathematics via primary historical sources (e.g., the PSPs).

Why are you being asked to take part in this study?

You were selected as a possible participant because you are teaching an undergraduate mathematics course (or a graduate course which may enroll undergraduate students) in which you have selected to use PSPs.

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How many people are expected to take part in this study?

Across the TRIUMPHS study, which has been funded for five years (2015-2020), we predicted we would involve some 1,500 undergraduate mathematics students and their instructors across the United States. To date, we have had some 1,000 students and their mathematics instructors participate in the study.

Before you begin the study

There is no eligibility testing to determine participation in this study.

Study procedures

If you agree and are eligible to participate in this study, we would ask you to do the following:

- (1) Complete pre- and post-course surveys. The surveys should take 20 minutes or less to complete.
- (2) Complete and submit a “project implementation report” that documents your implementation of instruction using the Primary Source Projects (PSPs). Much of the documentation requested this documentation is most likely part of your existing teaching practice and the amount of time you spend on this may vary.
- (3) A select number of mathematics course instructors may also be invited to participate in follow-up interviews. If you are selected the interview should take 60 minutes or less and will be video recorded.
- (4) A select number of mathematics course instructors may be invited to participate in an in-depth study of implementation of a PSP they choose to site test. If you are selected, classroom instruction and discussions will be audio and video recorded.

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How long will I be in this study?

Your consent applies to the current semester for the course in which you are implementing PSPs.

Risks of study participation

The study has the following risks: You may feel uncomfortable sharing your views about teaching and student learning of mathematics on surveys and in an interview (if you are selected). You may feel nervous about having your instruction audio and video recorded, if you are selected to do so. Every effort will be made so as not to infringe on your natural classroom instruction. That said, every effort will be made to minimize your nervousness/discomfort.

Because this is a research study, there may be additional risks that we cannot identify at this time.

Benefits of study participation

The benefits to study participation are: You may experience satisfaction in contributing to the development and evaluation of curricular materials for use in undergraduate mathematics teaching.

Alternatives to study participation

The alternative to study participation is to not participate in the study.

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Ending the study

You can choose to withdraw from the study at any time. You can communicate your choice to withdraw your participation to the lead researcher, Dr. Kathleen M. Clark.

Study costs/compensation

If you are a non-PI site-testing instructor, you are eligible for a site tester stipend (up to \$500 for one semester), which is determined by the grant project leadership team. The total stipend amount is dependent upon whether student and instructor data or only instructor data are collected. Site-testing instructors who are PIs on the grant project are not eligible for such a stipend.

Who can profit from study results?

No financial conflicts or gains have been identified in connection with this study.

How will my samples and data be used?

Data collected as part of this research study will be kept private and confidential to the extent permitted by law. In any sort of report that we might publish, we will not include any information that will make it possible to identify a research participant. Research records will be stored securely and only researcher will have access to the records. (Research records, including digital voice and video recordings, interview transcripts, and survey responses, will be stored securely via password-protected cloud storage sites.) Only the researcher will have access to the documents, recordings, and digital/electronic files, and the researcher will destroy these by August 31, 2020.

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Confidentiality

The records of this study will be kept private and confidential, to the extent allowed by law. In any publications or presentations, we will not include any information that will make it possible to identify you as a subject.

What will happen to the information collected about me after the study is over?

We will keep your research data to use for future research related to the use of PSPs in undergraduate mathematics instruction. Your name and other information that can directly identify you will be deleted from the research data collected as part of the project.

I may share your research data with other investigators without asking for your consent again, but it will not contain information that could directly identify you.

The results of this study could be published in an article or presentation but would not include any information that would let others know who you are without your permission.

Voluntary nature of the study

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

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Contacts and questions for the study team about the research

The researcher conducting this study is Dr. Kathleen M. Clark. You may ask any questions you have now, or if you have questions later, you are encouraged to contact her at:

School of Teacher Education
1114 West Call Street
Tallahassee, Florida 32306-4459
850-644-8497
kclark@fsu.edu

Contact information for questions about your rights as a research participant

If you have any questions or concerns about your rights as a research participant, or regarding the study and would like to talk to someone other than the researcher(s), you are encouraged to contact the FSU IRB at telephone number 850-644-7900. You may also contact this office by email at humansubjects@fsu.edu, or by writing or in person at 2010 Levy Street, Research Building B, Suite 276, FSU Human Subjects Committee, Tallahassee, FL 32306-2742.

You will be given a copy of this form for your records.

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Statement of Consent

I have read the above information I have asked questions and have received answers. I consent to participate in this study.

Signature of Subject

Date

Printed Name of Subject

Date

Person Obtaining Consent

Date