

Participation Information

for
The Impact of Graphing Software in Educational Visualisations

I would like to invite you to take part in my study. Before you decide whether or not to participate, I would like you to understand why the research is being conducted and what it would involve for you. Talk to others about the study if you wish. Please ask me any questions if anything is unclear.

Purpose of the Study

The findings of the study will be used to look at how the use of graphing software, specifically engineered for A-Level students and Undergraduates, can improve a student's understanding of a topic. I am conducting this research as part of my BSc in Mathematics and Computer Science.

Reason for Invitation

If you have been invited to the study, you are likely a student with a mathematical background. By the nature of the study, it is only interesting to students of this type. If you are under 18, you have been invited with your school's approval.

Participation and its Implications

It is up to you to decide whether you wish to participate in the study. I will answer any questions you might have and if you agree to take part, I will then ask you to sign a consent form. You are free to withdraw at any time, without giving a reason. However, it should be noted that once data has been anonymised, it cannot be withdrawn and data submitted anonymously can not be withdrawn, even prior to the anonymisation date. The date of anonymisation is 30/04/2021.

The study will begin with a short survey about your experiences with graphing software (if you join later on in the study, this may not be applicable). After the software has been developed, participants will read a short essay, then go through a set of tasks on the provided software. Afterwards, there will be a survey that participants should complete regarding their experiences. This can be done at your own pace, in your own time, and will not be recorded in any way, it is expected to take around 30 minutes.

Risks

There are no foreseen risks.

Benefits

You may find the study interesting, or use the software outside of the study. But otherwise, there are no direct benefits to the participant.

Your Data

All data submitted to the study and your participation is strictly confidential. The names and emails of participants will be recorded and stored on a secure server prior to the end of the study, where it will be deleted. The names and emails of participants will be used solely for communication about the study. All findings will be submitted anonymously via surveys run by a secure University of Bristol account. The findings will be stored privately on this account, on a secure server. After the study, the anonymous data will be archived on a secure server only accessible to researchers upon their request.

The results will contribute towards my short project as part of my BSc in Mathematics and Computer Science. A report will be published and made available to the public. If participants wish, a copy can be emailed to them prior to the destruction of their contact details. Participants will not be identified in any publication.

Organisers and Reviewers

This study is being organised by the Department of Computer Science as part of my BSc in Mathematics and Computer Science. The study has been reviewed by the Faculty Research Ethics Committee (FREC).

Further Questions?

If you have any questions, please contact me at kc18859@bristol.ac.uk.

If you have any concerns related to your participation in this study, please direct them to the Faculty of Engineering Research Ethics Committee, via the Research Governance Team; research-governance@bristol.ac.uk.