

National Teaching School
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Department
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National College for
Teaching & Leadership

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Head Teacher: Mr D Barrow

12th February 2019

Dear Parents and Carers,

STEM WEEK: YEAR 5 WARWICK UNIVERSITY WORKSHOP – CONSENT FORMS

As part of STEM week after half term, Year 5 will take part in a workshop looking at the Rube Goldberg Machine, which is a really exciting opportunity. The workshop will be run by Warwick University, who have asked for you to read the attached participant information leaflet and complete the consent forms for both parent and child. **Please complete and return the consent forms no later than Monday 25th February.**

We would appreciate some contributions of junk for the workshop: kitchen rolls and other tube-shaped junk, as well as a range of boxes and any ball-shaped junk please. Please send into school after half term.

Many thanks in advance for your support.

Kind regards,

Mrs C Tennant

KS2 Phase Leader / Science Lead



PARTICIPANT INFORMATION LEAFLET

Study Title: Public Engagement Using a Rube Goldberg Machine

Investigator(s): Jacob Saunders and Chloe Agg

Introduction

You are invited to take part in a study. Before you decide, you need to understand why the study is being done and what it would involve for you. Please take the time to read the following information carefully. Talk to others about the study if you wish.

(Part 1 tells you the purpose of the study and what will happen to you if you take part. Part 2 gives you more detailed information about the conduct of the study)

Please ask us if there is anything that is not clear or if you would like more information. Take time to decide whether or not you wish to take part.

PART 1

What is the study about?

The purpose of this study is to investigate the effectiveness of engaging students in STEM subjects (Science, Technology, Engineering, and Mathematics). Specifically, prior to them making any choices regarding their future subjects (for example, GCSE options).

Do I have to take part?

It is entirely up to you to decide. We will describe the study and go through this information sheet, which we will give you to keep. If you choose to participate, we will ask you to sign a consent form to confirm that you have agreed to take part. You will be free to withdraw at any time, without giving a reason and this will not affect you or your circumstances in any way. If you do not give consent, you will still be allowed to take part in the workshop but you won't be allowed to complete the questionnaires.

What will happen to me if I take part?

The study will be run in the style of a "workshop". This means you will spend some time watching and listening and some time taking part and getting hands on.

At the start of the workshop, you will have to fill in a short questionnaire about how you

feel about different school subjects. You won't have to give any personal information at all. Then, you will be presented with a demonstration of a "Rube Goldberg Machine". This is a mechanism that carries out a simple task such as a moving a ball from one position to another. However, this is carried out in a complicated way to make the simple task look more exciting. Don't worry if you don't fully understand what a Rube Goldberg Machine is, you will be told more about it during the workshop. After the demonstration, we will discuss what each part of it does and you will have plenty of opportunities to ask questions.

Following this, you will have the opportunity to try and make your own part of a Rube Goldberg Machine in small groups. We can then look at each group's part and see how well they work.

The workshop will end with another questionnaire to get your opinions on how the workshop went and to see if how you feel about different school subjects has changed.

What are the possible disadvantages, side effects, risks, and/or discomforts of taking part in this study?

There are no expected disadvantages, side effects, risks, or discomforts associated with taking part in this study. All items used in the "hands on" part of the workshop will be normal objects you would use at school so should therefore not pose any danger. If there is anything you are at all worried about, bring it to the attention of the researcher.

What are the possible benefits of taking part in this study?

The benefits of taking part in this workshop will be an improved understanding of STEM subjects, Engineering in particular.

Expenses and payments

There are no expected expenses or reimbursements associated with this study. The study is entirely voluntary and will take place during an ordinary school day.

What will happen when the study ends?

At the end of the study, you will continue with your normal school day. All data collected in the questionnaires will be held securely in the supervisor's office in the School of Engineering at the University of Warwick. Any digital copies of the data will be stored securely on password protected devices.

Will my taking part be kept confidential?

Yes. We will follow strict ethical and legal practice and all information about you will be handled in confidence. Further details are included in Part 2.

What if there is a problem?

Any complaint about the way you have been dealt with during the study or any possible harm that you might suffer will be addressed. Detailed information is given in Part 2.

This concludes Part 1.

If the information in Part 1 has interested you and you are considering participation, please read the additional information in Part 2 before making any decision.

PART 2

Who is organising and funding the study?

This study is a part of a 3rd year engineering project at the University of Warwick. It is funded by the Warwick University School of Engineering.

What will happen if I don't want to carry on being part of the study?

Participation in this study is entirely voluntary. Refusal to participate will not affect you in any way. If you decide to take part in the study, you will need to sign a consent form, which states that you have given your consent to participate.

If you agree to participate, you may nevertheless withdraw from the study at any time and not carry out any more activities or questionnaires. However, if you decide to withdraw after having already handed in a questionnaire, your data will not be able to be removed. This is because the questionnaires are anonymous and there is no personal data on them that would allow your specific questionnaire to be located and removed.

You have the right to withdraw from the study completely and decline any further contact by study staff after you withdraw.

Withdrawal from the study will not affect your education or your grades in any subjects.

What if there is a problem?

This study is covered by the University of Warwick's insurance and indemnity cover. If you have an issue, please contact the Chief Investigator of the study:

Jacob Saunders
j.saunders.1@warwick.ac.uk

Who should I contact if I wish to make a complaint?

Any complaint about the way you have been dealt with during the study or any possible harm you might have suffered will be addressed. Please address your complaint to the person below, who is a senior University of Warwick official entirely independent of this study:

Head of Research Governance
Research & Impact Services
University House
University of Warwick
Coventry
CV4 8UW
Tel: 024 76 522746
Email: researchgovernance@warwick.ac.uk

Will my taking part be kept confidential?

No personal data will be required for the purposes of this study and you will be encouraged not to give any personal details about yourself when filling in the questionnaires. As stated in Part 1, all data collected will be held securely, as will any digital copies of the data.

What will happen to the results of the study?

The results of this study will only be used in the technical report required for the project. This report will only be viewed by assessors, moderators, and external examiners in confidence.

Who has reviewed the study?

This study has been reviewed and given favourable opinion by the University of Warwick's Biomedical and Scientific Research Ethics Committee (BSREC):
REGO-2018-2285 15/10/18

What if I want more information about the study?

If you have any questions about any aspect of the study, or your participation in it, not answered by this participant information leaflet, please contact:

Chief Investigator:
Jacob Saunders
j.saunders.1@warwick.ac.uk

Supervisor:
Chloe Agg
c.agg@warwick.ac.uk

Thank you for taking the time to read this participant information leaflet.



CONSENT FORM – Parent/Guardian

Title of Project: Public Engagement Using a Rube Goldberg Machine

Name of Researcher(s): Jacob Saunders and Chloe Agg

Please initial all boxes

1. I confirm that I have read and understand the information sheet dated **14/10/18** for the above study. I have had the opportunity to consider the information, ask questions and have had these answered satisfactorily.
2. I confirm that I have helped my child understand the Participant Information Leaflet and their consent form.
3. I understand that my child's participation is voluntary and that they are free to withdraw at any time without giving any reason, without their education rights being affected.
4. I understand that if they withdraw after submitting one or more questionnaires, then their data will not be able to be retracted.
5. I understand that they can still take part in the workshop even if they choose not to give data in the questionnaires.
6. I agree for my child to take part in the above study.

Name of Parent/Guardian Date Signature

Jacob Saunders 20/01/19 _____
Name of Person Date Signature
Taking Consent



CONSENT FORM - Participant

Title of Project: Public Engagement Using a Rube Goldberg Machine

Name of Researcher(s): Jacob Saunders and Chloe Agg

Please initial all boxes

1. I confirm that I have read and understand the information sheet dated **14/10/18** for the above study. I have had the opportunity to consider the information, ask questions and have had these answered satisfactorily.
2. I understand that my participation is voluntary and that I am free to withdraw at any time without giving any reason, without my education rights being affected.
3. I understand that if I withdraw after submitting one or more questionnaires, then my data will not be able to be retracted.
4. I understand that I can still take part in the workshop even if I choose not to give data in the questionnaires.
5. I agree to take part in the above study.

Name of Participant Date Signature

Jacob Saunders 20/01/19 _____
Name of Person Date Signature
Taking Consent