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Parent/Guardian Permission Form

Title of Study: STEM Career Clubs: Enhancing the potential of underrepresented students in STEM through a Strategic Teaming Model (eIRB # 4093)

Principal Investigator(s): Dr. Margaret R. Blanchard, Meg_Blanchard@ncsu.edu, 919-515-1771

Funding Source: Burroughs Wellcome Fund

What are some general things you should know about research studies?

Your child is invited to take part in a research study. Your child's participation in this study is voluntary. Your child has the right to be a part of this study, to choose not to participate, and to stop participating at any time without penalty. The purpose of this research study is to gain a better understanding of STEM Careers, or careers in science, technology, engineering, and mathematics. I will do this through after-school STEM Career Clubs, exploring STEM careers, and attending a school day college field trip.

Your child is not guaranteed any personal benefits from being in this study. Research studies also may pose risks to those who participate. You may want your child to participate in this research because they will have the opportunity to learn about STEM careers. You may not want your child to participate in this research because it may feel a little strange taking surveys or the assessments, but that is likely to lessen given that you will be taking the survey at home with your family or at school with a trusted teacher.

Specific details about the research in which your child is invited to participate are contained below. If you do not understand something in this form, please ask the researcher for clarification or more information. A copy of this consent form is available for you by downloading it directly from the survey. If, at any time, you have questions about your child's participation in this research, do not hesitate to contact the researcher(s) named above or the NC State IRB office. The IRB office's contact information is listed in the *What if you have questions about your rights as a research participant?* section of this form.

What is the purpose of this study?

The purpose of the study is to learn what students gain from participating in after-school STEM Career Clubs if possible, exploring STEM careers in clubs or in classrooms at school, and attending a school day college field trip.

How many kids will be in this study?

There will be approximately 150 participants in this study.

Is my child eligible to be a participant in this study?

In order to be a participant in this study, your child must have your permission to participate, your child must agree to be in the study, and attend a participating school for this project.

Your child cannot participate in this study if they do not want to be in the study or you do not give them permission to be in the study.

What will happen if my child takes part in the study?

If you agree to allow your child to participate in this study, they will be asked to do all of the following:

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1. Your child will receive STEM kit(s) and STEM based book(s). After reading the book and completing the STEM kit, your child will be asked to complete a short survey for the book and kit.
2. If your child decides to participate in the after school STEM clubs, your child will complete a STEM career exploration activity. We request the use of this information to be used as data for research.
 - a. No other research data will be collected during the STEM clubs.
 - b. Students will be able to participate in the club whether you or they allow their information from the STEM career explorations to be used as research or not.) There are approximately four meetings planned for each semester.
3. Attend a college field trip during the school day.
 - a. Students will be asked to take a pre-survey and post-survey about the field trip.

The following procedures are experimental: one half of the school's students will get social justice oriented prompts and the other randomly selected school's students will get the neutral prompts. Both types of questions will take an equal amount of time to complete. By collecting repeated measures online questions after each of the books and stem kits, I hope to measure whether the prompts matter in terms of interest, completion of the book or kit, or continuation with more kits and books. I will also compare any differences by treatment using the STEM-CIS pre and post that all students will take.

The total amount of time that your child will be participating in this study is 12 hours.

Risks and benefits

There are minimal risks associated with participation in this research. The risks to your child because of this research include short surveys. Students may feel a little strange taking the survey or the assessments, but that is likely to lessen given that they will be taking the survey at home with their family or at school with a trusted teacher.

There are no direct benefits to your child's participation in the research. The indirect benefits are information gained in this study will aid in improving STEM Career Clubs and will help the researchers better understand how to support students in preparing them for STEM career pathways and college.

Students are likely to learn about interesting diverse young people in STEM who made a difference. They also will gain experience with a range of STEM kits. They likely will learn new skills and gain practice reading. They could have fun exploring STEM careers at school, and learn more about their career interests, as well as seeing more diverse people represented in STEM fields, through those explorations. They also will keep all of the materials that are sent to their homes, which may be enjoyed by other family members.

Right to withdraw your participation

Your child can stop participating in this study at any time for any reason. To do so, your child can just stop any research activity that they are doing or you or your child can contact the principal investigator, Dr. Blanchard, at Meg_Blanchard@ncsu.edu and 919-515-1771. If you or your child choose to withdraw consent and to stop participating in this research, you can expect that the researcher(s) will redact your child's data from their data set, securely destroy your data, and prevent

future uses of your child's data for research purposes wherever possible. This is possible in some, but not all, cases.

Confidentiality, personal privacy, and data management

Trust is the foundation of the participant/researcher relationship. Much of that principle of trust is tied to keeping your child's information private and in the manner that I have described to you in this form. The information that your child shares with me will be held in confidence to the fullest extent allowed by law.

Protecting your child's privacy as related to this research is of utmost importance to me. However, there are very rare circumstances related to confidentiality where I may have to share information about you or your child. You and your child's information collected in this research study could be reviewed by representatives of the University, research sponsors, or government agencies (for example, the FDA) for purposes such as quality control or safety. In other cases, I must report instances in which imminent harm could come to you, your child, or others.

How I manage, protect, and share your child's data are the principal ways that I protect your child's personal privacy. Data that will be shared with others about your child will be de-identified.

De-identified. De-identified data is information that at one time could directly identify your child, but that I have recorded the data so that your child's identity is separated from the data. I will have a master list with your child's code and real name that I can use to link to your child's data. I do not have a master list with your child's code and real name that connects your child's information to the research data. While I might be able to link your child's identity to your child's data at earlier stages in the research, when the research concludes, there will be no way your child's real identity will be linked to the data I publish.

Future use of your child's research data

To help maximize the benefits of your participation in this project, by further contributing to science and our community, your de-identified information will be stored for future research and may be shared with other people without additional consent from you.

Compensation

There is no compensation for participating in this study. Students will, however, be able to keep the kits and books that are mailed to them.

Emergency medical treatment

If your child is hurt or injured during the study session(s), the researcher will call 911 for necessary care. There is no provision for compensation or free medical care for your child if they are injured as a result of this study.

What if your child is a student?

Your child's participation in this study is not a class requirement and their participation, or lack thereof, will not affect their class standing or grades.

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Sponsorship and funding

This research is funded by Burroughs Wellcome Fund. This means that the sponsor is paying the research team for completing the research. The researchers do not, however, have a direct financial interest with the sponsor or in the final results of the study. If you would like more information, please ask the researcher(s) listed at the top of this form about the funding and sponsorship.

What if you have questions about this study?

If you have questions at any time about the study itself or the procedures implemented in this study, you may contact the principal investigator, Dr. Blanchard, at Meg_Blanchard@ncsu.edu and 919-515-1771.

What if you have questions about your child's rights as a research participant?

If you feel your child has not been treated according to the descriptions in this form, or their rights as a participant in research have been violated during the course of this project, you may contact the NC State IRB (Institutional Review Board) office. An IRB office helps participants if they have any issues regarding research activities. You can contact the NC State University IRB office at IRB-Director@ncsu.edu, 919-515-8754, or [fill out a confidential form online](https://research.ncsu.edu/administration/participant-concern-and-complaint-form/) at <https://research.ncsu.edu/administration/participant-concern-and-complaint-form/>

Consent to participate

By choosing the "Yes, I agree that my child can participate in this research study" and providing my name, my child's name, and the date, I am affirming that I have read and understand the above information. All of the questions that I had about this research involving my child have been answered. I have chosen to allow my child to participate in this study with the understanding that my child may stop participating at any time without penalty or loss of benefits to which my child is otherwise entitled. I am aware that I may revoke my consent for my child to participate in this research at any time.

☐

Yes, I agree my child can participate in this research study.

Your Name _____

Child's Name _____

Today's Date _____

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No, I do not want my child to participate in this research study.

Thank you for your consideration.