Title of research study: Snap The Gap

Investigator: Beth Broome

Why am I being invited to take part in a research study?
We invite your child to take part in this online survey because they will be participating in a STEM (Science, Technology, Engineering, and Math) project designed to increase participation and engagement, called Snap the Gap. We are interested in understanding attitudes and perceptions toward STEM and will collect data around increased interest, attitudes and perception of STEM prior to the beginning of the program and post.

What are my rights as a research subject?
(Experimental Subject's Bill of Rights)

• Someone will explain this research study to you, including:
  o The nature and purpose of the research study.
  o The procedures to be followed.
  o Any benefits you might expect.
• Whether or not you take part is up to you and your child.
• You and your child can choose without force, fraud, deceit, duress, coercion, or undue influence.
• You and your child can choose not to take part.
• You and your child can agree to take part now and later change your mind.
• Whatever you decide it will not be held against you or your child.
• You and your child can ask all the questions you want before you decide.
• If you agree to have your child take part, you will be given a signed and dated copy of this document.

Who can I talk to?
If you have questions, concerns, or complaints, or think the research has hurt your child, please contact Beth Broome, at bfbroome@ucdavis.edu or 530-979-4782 or Dr. K Burtis at kcburtis@ucdavis.edu for assistance

This research has been reviewed by an Institutional Review Board (IRB). Information to help you understand research is on-line at https://research.ucdavis.edu/policiescompliance/irb-admin/. You may talk to a IRB staff member at (916) 703-8151, hs-irbadmin@ucdavis.edu, or 2921 Stockton Blvd, Suite 1400, Room 1429, Sacramento, CA 95817 for any of the following:

• Your questions, concerns, or complaints are not being answered by the research team.
• You cannot reach the research team.
• You want to talk to someone besides the research team.
• You have questions about your rights as a research subject.
• You want to get information or provide input about this research.

Why is this research being done?
This research is being conducted to determine if mentoring combined with hands on active learning strategies increase the positive attitudes, level of engagement and desire to further explore STEM in youth between the ages of 10-12.

How long will the research last?
We expect that your child will receive no less than 10 hours and up to 20 hours of activities guided by a mentor. The survey (both pre and post) should take no longer than 15 minutes each to complete.
Permission to Take Part in a Human Research Study

How many people will be studied?
We expect 15,000 youth and up to 15,000 mentors will be in this research study.

What happens if I say yes, I want to be in this research?
If you are interested in having your child be a part of this research, please return a signed consent form for your child. Your child will provide their assent on the day of the pre-survey collection.

The survey will be conducted electronically, and anonymously.

Your child will meet with her mentor at the approved supervised site and will be given a STEM based learning kit that will remain at the site for the duration of the project (approximately 6 weeks). In addition, you will be given an access code to sign up for a free year of on-line educational content that pairs with the STEM based kit. This is called DIY.org. Upon completion of the project, your child will be able to take this kit home.

What happens if I do not want to be in this research?
You may decide to have your child not to take part in the research and it will not be held against you. Your child cannot participate without your consent.

What happens if I say yes, but I change my mind later?
If you change your mind about having your child participate in this research study at any point in time, please contact the study investigator Beth Broome at bfbroome@ucdavis.edu or 530-979-4782 or Dr. K Burtis at kcburtis@ucdavis.edu and we will insure that your child does not participate in this study.

If your child changes their mind about participating in this research study at any point in time, they can decline to participate. Participation in this study is voluntary and requires the consent of both you and your child.

Will being in this study help me in any way?
There are no direct benefits from participating in the surveys. The benefits we hypothesize will come from participation in the mentoring and hands on learning.

What happens to the information collected for the research?
The results of this study may be used for teaching, publications or presentations related to increased persistence and retention of girls in STEM.

Since the survey is anonymous, there will be no disclosure of your child's personal information, including research study records, to people who have a need to review this information. We cannot promise complete confidentiality. Organizations that may inspect and copy your information include the IRB and other University of California representatives responsible for the management or oversight of this study.

What else do I need to know?
Neither you nor your child will be compensated for taking part in this study. At the conclusion of the project, your child will be able to keep their kit and use the online program associated with it for the remainder of 1 year. If your child participates, they will have the benefit of having worked with a mentor to fully utilize the various components of the STEM kit and the accompanying online learning materials, as well as have the opportunity to learn about powerful female STEM role models, STEM learning and careers exploration. The vendor for the STEM kits we will work with is littleBits. littleBits makes modular electronics, which snap together with small magnets for prototyping and learning. The kits contain pieces such as slide dimmer bits, sensors, flexible LED lighting options, NOR bits, motion triggers, mix bits to combine 2 inputs, oscillator, perf bits, proximity sensors, pulse bits, etc. Each kit also contains 9V batteries and cables, mechanical arms, paper templates and mounting boards.
Permission to Take Part in a Human Research Study

Signature Block for Children
Your signature documents your permission for the named child to take part in this research.

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Note: Investigators are to ensure that individuals who are not parents can demonstrate their legal authority to consent to the child’s general medical care. Contact legal counsel if any questions arise.

☐ By checking this box, I affirm that I am electronically conveying consent for my child to participate in the Snap The Gap program.

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If signature of second parent not obtained, indicate why: (select one)
☐ The IRB determined that the permission of one parent is sufficient.
☐ Second parent is deceased
☐ Second parent is unknown

☐ Second parent is incompetent
☐ Second parent is not reasonably available
☐ Only one parent has legal responsibility for the care and custody of the child

Please leave this signature field blank. This is for a site coordinator to sign off on. Thank you.

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Do not write below this line. For IRB stamp and version date only.
As a parent or guardian of a Snap the Gap participant. We invite you to complete the following questions. These questions are optional. This survey will take approximately 2 minutes to complete. Individual responses are confidential. There is no correct answer on your response. Completed forms should be given to the site coordinator.

STUDENT INFORMATION: TELL US ABOUT THE PARTICIPANT

Program Name: ________________________________

School Name: _____________________________  Grade Level: ___________________________

High School Graduation Year: ___________  Birth Date: ___/___/_______

Mark any programs you are a part of:  □ AVID □ EAOP □ ETS □ Gear-Up □ MESA □ Puente □ Upward Bound □ YMCA □ Other: ____________________________

If the student would like updates through email, please indicate your email address: ____________________________ @

If student’s parent(s) would like updates through email, please indicate your email address: ____________________________ @

Are you Hispanic or Latino descent? □ No □ Yes  Are an English Learner (EL) student? □ No □ Yes  Are you foster youth? □ No □ Yes  

Student’s Ethnicity: (Please choose only one)


PARENT & FAMILY INFORMATION

Is the student eligible for free/reduced lunch? □ No □ Yes  Is the household a single-parent home? □ No □ Yes □ Decline to State  

Student’s Preferred Language(s): □ English □ Hmong □ Lao □ Mien □ Russian □ Spanish □ Ukrainian □ Vietnamese □ Other: ____________________________

Language(s) Spoken at Home: □ English □ Hmong □ Lao □ Mien □ Russian □ Spanish □ Ukrainian □ Vietnamese □ Other: ____________________________

Number of family members in the household (including student):

Total Family Adjusted Income: (1) □ $18,735 or less  (2) □ $18,736 - $25,365  (3) □ $25,366 - $31,995  (4) □ $31,996 - $38,625  

(5) □ $38,626 - $45,255  (6) □ $45,266 - $51,885  (7) □ $51,886 - $58,515  (8) □ $58,516 - $65,145  

(9) □ $65,146 - $71,775  (10) □ $71,776 - $78,405  (11) □ $78,406 - $85,035  (12) □ $85,036 or greater

HIGHEST LEVEL OF EDUCATION COMPLETED:

Father/Guardian: [ ] Unknown or not available □ Unk ( ) □ Never Attended School □ 000 ( ) □ Attended Six Years or less □ G06 ( ) □ Attended Junior High School □ G07 ( ) □ Finished Junior High □ G08 ( ) □ Attended Some High School □ G11 ( ) □ High School Graduate (High School Diploma) □ G12 ( ) □ General Education Diploma (GED) □ GED ( ) □ Attended Some College or University □ C01 ( ) □ Associates of Arts (AA, AS, etc.) □ C02 ( ) □ Bachelor’s Degree (BS, BA, AB, etc.) □ C04 ( ) □ Master’s Degree (MA, MBA, MS, etc.) □ GR2 ( ) □ Doctorate (PhD, MD, EdD, etc.) □ GR4 ( )

Father/Guardian: [ ] No □ Yes

Mother/Guardian: [ ] Unknown or not available □ Unk ( ) □ Never Attended School □ 000 ( ) □ Attended Six Years or less □ G06 ( ) □ Attended Junior High School □ G07 ( ) □ Finished Junior High □ G08 ( ) □ Attended Some High School □ G11 ( ) □ High School Graduate (High School Diploma) □ G12 ( ) □ General Education Diploma (GED) □ GED ( ) □ Attended Some College or University □ C01 ( ) □ Associates of Arts (AA, AS, etc.) □ C02 ( ) □ Bachelor’s Degree (BS, BA, AB, etc.) □ C04 ( ) □ Master’s Degree (MA, MBA, MS, etc.) □ GR2 ( ) □ Doctorate (PhD, MD, EdD, etc.) □ GR4 ( )

Mother/Guardian: [ ] No □ Yes

College degree obtained outside U.S.? □ Yes □ No □ Yes □ No