New RRB Submission

Data Entry
- Submitted 10/10/2022 11:51 AM ET by Baker, Stephen PhD
Submission Type

RRB Number	2020-1592
Study Title	Student Perceptions of STEM Career Readiness in CPS
Event Type	Modification/Continuing Review defined 12/06/2022
Schools Participating	*No answer provided.*

SUBMISSSION TYPE INSTRUCTIONS AND OPTIONS

"New Submission" *- if this is a brand new RRB proposal OR you need to make requested revisions to an RRB submission that is NOT yet approved.*

"Entry of RRB project that was previously-approved outside of IRBManager" *- if you would like to enter a project into IRBManager that was reviewed and approved outside of IRBManager (i.e. before IRBManager was implemented at CPS). For this selection, there must be no changes in your study protocol from when your study was previously approved.*

"Modification/Continuing Review of RRB Project Previously approved outside of IRBManager" *- if you would like submit a modification for a study that was* ***approved outside of IRBManager (i.e. before IRBManager was implemented at CPS).***

Type of Submission
Modification/Continuing Review of a RRB project previously approved outside of IRBManager

Please enter your RRB Protocol number below. If you're unable to find your RRB Protocol number, please indicate this in the following question.

2020-1592-CPS

If you're having problems looking up your RRB submission number, a "%" can be used in front of a sequence of numbers to find a RRB number containing that sequence. For example, inputting "%123" would bring up studies "2025-7123" and "2026-9123" (these numbers are examples and do not exist in the system.)

Were you able to find your RRB Protocol Number using the previous lookup function?
Yes

Amendment Summary

Description of Research Activities to Date

Students: Consented and assenting students receiving Lumity programming and business as usual classroom activities completed a one-time pretest questionnaire in Year 1 of the study and mid-point questionnaires at the end of the school year in 2021 and 2022. We observed students in remote program learning activities via participation using Zoom (e.g., "site visits" with businesses using STEM in work processes, STEM talks), focused upon Lumity staff program implementation and broad student engagement.

Teachers: Five teachers whose classrooms host Lumity program activities interviewed were interviewed in 2021 and 2022 about program implementation, factors that affect implementation, student engagement, and perception of impacts upon students.

School leaders: One or two leaders from each participating school were interviewed in each of the participating schools in 2021 and 2022.

Secondary data analysis: We requested administrative data for consented students.

Preliminary Results to Date

Students: Administrative data is not yet available to assess differences in school achievement between Lumity and non-Lumity students. Questionnaire data from 2021 indicated higher levels of knowledge about STEM careers among Lumity students. Data from 2022 is still being analyzed.

Teachers and school leaders: Twenty-one interviews were conducted during the first two years of the study.

Teachers believed participating in Lumity Programming helped to expose their students to STEM professionals, a variety of potential STEM careers, and, at least for some students, problem-solving activities they otherwise would not have encountered through regular classroom instruction. Teachers also indicated that Lumity staff were able to successfully engage their students. Several teachers identified how Lumity lessons aligned with their curriculum, and the value of lessons focused on social emotional learning skill development, in particular, given the emotional and social challenges created by COVID disruptions. Finally, teachers mentioned that their students enjoyed the interactive aspects of Lumity's programming most, particularly the real-world projects and career site visits, where the students were able to apply what they learned in practice.

Teachers and school leaders also identified implementation challenges for the Lumity program, including coordination of lessons with CPS school calendars and school leadership (e.g., field trips), occasions when a lesson plan was not fully completed during a single session, opportunities for better information sharing from Lumity, and opportunities for closer alignment between Lumity and existing classroom curriculum.

Type of Request

Modification

Please select continuing review if no changes have been made to your study protocol. If you plan on proposing a modification AND a continuing review, please select modification, as an approved modification will extend your approval period.

Indicate Proposed Modification Areas

Study Methodology and/or Research Activities

Please provide an overview of the proposed modifications to your study methodology and/or research activities

Observations: As allowed by CPS COVID-19 policy, researchers will conduct observations of Lumity programming in classrooms and at Lumity events outside of school (up to 8 observations per participating school). These observations will focus on teacher and Lumity staff program implementation and broad student engagement. We will not record any identifying information for individual students.

Interviews: Outlier will conduct interviews with seven students who participate in Lumity programming, invited from among consented students. Lumity staff will ask consented students who might be interested in participating. The 7 students will be randomly selected from those who volunteer. Interviews will be about 25 minutes and will occur between March and May 2023. The same students will be asked to complete an interview in the fourth study year (pending RRB approval) to track changes over time. Using a semi-structured protocol, interviews will focus on key student outcomes for this study (e.g., interest in STEM careers, self-efficacy regarding STEM careers) as well as students' experiences participating in classes with Lumity programming. If permitted by the RRB, students will receive a $25 store card for each interview.

Teacher questionnaires: Our earlier research plan included teacher questionnaires. We will not use this method in the study for the upcoming year.

Optional Attachments - please attach any reports/publications that have been created thus far here.

Lumity interview synthesis 8.18.21.pptx	Misc/Other
Year 1 Lumity student questionnaire synthesis 9.21.21.pptx	Misc/Other

Pertinent CPS Documentation

Submitter

Baker, Stephen PhD

Email: bak5@uchicago.edu   **Business:** (312) 632-9221

Overview of Pertinent CPS Documentation

The RRB is composed of members representing various Central Office academic
departments as well as the Law Department. The RRB meets quarterly to evaluate new
proposals to conduct research. The RRB calendar and deadlines for submissions can be
found on the CPS Research Website here. Decisions resulting from the research review
process will be communicated to the applicant of the request as well as appropriate CPS
staff in accordance with the estimated timelines outlined in the respective RRB calendar.
External researchers may not begin any research activities or obtain data for research
purposes without first following the procedures outlined in this policy and securing the
necessary approvals.

We expect all researchers to be familiar with the guidelines and policies guiding research within the district. Please verify that you have read and acknowledged the following:

External Research Study and Data Policy
✔ I have read and understood the External Research Study and Data Policy

CPS RRB Guidelines
✔ I have read and understood the CPS RRB Guidelines

CPS Equity Framework
✔ I have read and understood the CPS Equity Framework

CPS Vision
✔ I have read and understood the CPS Vision

CPS Volunteer Policy
✔ I have read and understood the CPS Volunteer Policy, including
background check requirements

Study Personnel Details

Study Title

Identifying and increasing the benefits of Lumity programming for CPS students' social-emotional learning and STEM career readiness

Does your organization participate in a Research Practice Partnership (RPP) with Chicago Public Schools?

No

Primary Study Organization/University

University of Chicago

Principal Investigator

Baker, Stephen PhD

Expirations:

Background Check Level:

PI Organization
University of Chicago

If the form indicates "not found" when you add the Principal Investigator, please use the link below to add the contact to the IRBManager system.
User had the option to start a different form here.

Are there any other study contacts?

No

If the person completing this form is not the Principal Investigator, it is suggested that the submitter be entered as a contact.

Is the Principal Investigator a Student?

No

Is the researcher a CPS Staff Member?

No

Funding and Intervention Information

Is this project contracted by the CPS Board of Education?

No

Is a funding source associated with the proposed research?

Yes

Who is the primary funding source?
Lumity / Department of Education

What is the amount of funding awarded?
$800,000.00

Please list primary contact information of funder.
Ashley Brizzo, Group Leader on EIR
Department of Education
400 Maryland Ave SW
Washington, DC 20202
(202) 453-7122

Re: Early EIR 38 Study

Select the option that applies to your study

My study will involve a selection of individual schools

Please select all potential school sites involved with this study

Chicago Vocational Career Academy High School
Friedrich W von Steuben Metropolitan Science HS
Roald Amundsen High School

Will this research require any in-person interaction or intervention activities?

Yes

Will this research require any virtual interaction or intervention activities (Google Meets, Zoom, etc.)?

Yes

Please note that Zoom is not approved for use with CPS Students. Any virtual activities will need to be conducted via Google Meets and safe@cps.edu must be invited to Google Meet. Please adjust virtual methods accordingly. For more information on permitted interactions with students and staff, please visit https://www.cps.edu/about/policies/acceptable-use-policy/external-volunteers/.

Please review CPS's Acceptable Use of Technology Guidance (AUP)

✔

Questions about eligibility or appropriate use of communication channels should be directed to the school principal or CPS External Research department. Only CPS-approved communication channels may be used.

Please be aware that virtual interviews involving students may only be conducted via Google Meets. A CPS Staff member must be present for the entire duration of the interview. For more information on CPS' Acceptable Use of Technology policies, please visit https://www.cps.edu/about/policies/acceptable-use-policy/external-volunteers/

Please check all of the following that apply to your research protocol:

Interviews
Observations
Questionnaire
Secondary Data Request

Please outline your protocol for individual interview activities, describing when, where, duration, frequency, and with whom.

Interviews with CPS students have been suspended for the first two years of the study because of COVID-related restrictions.

For the 2022-2023 school year, Outlier will conduct interviews with seven students who participate in Lumity programming. Lumity staff will ask consented students who might be interested in participating and share contact information for these interested students. The 7 students will be randomly selected from those who volunteer. Interviews will be about 25 minutes and will occur between February and April 2023. The same students will be asked to complete an interview in 2024 (pending RRB approval) to track changes over time. Using a semi-structured protocol, interviews will focus on the student outcomes outlined above as well as students' experiences participating in classes with Lumity programming. If permitted by the RRB, students will receive a $25 store card for each interview.

We will follow CPS guidance on acceptable interview formats, and offer either in-person or Google Meet interview options with CPS notification and staff presence.

Does this involve video, audio, or photograph recording?
Yes

Please describe the protocol for audio/video recording
We ask students for permission to audio record the interview for the purposes of accuracy and confirm that this will be available only to the independent research team. If they prefer no recording, we will only take notes during our interview.

Please describe how data will be captured and stored securely
Interviews will be recorded on a digital recorder and uploaded to a secure network drive (VPN and two-factor identification) at the University of Chicago.

All eligible students have signed assent forms on file.

Please attach all study materials corresponding to interview procedures (i.e., consent forms, protocol, recruitment and incentive plans)
 Student Interview 2022.docx Interview Protocols

Please outline your protocol for survey activities, describing when, where, duration, frequency, and with whom.

No changes for this modification -- IRB software will not let me move forward without a response.

Please describe how data will be captured and stored securely
No changes for this modification -- IRB software will not let me move forward without a response.

Please attach all study materials corresponding to interview procedures (i.e., consent forms, protocol, recruitment and incentive plans)

Attachment required but not modified.docx Misc/Other

Detail the method of Survey Administration (e.g. paper, online, etc.)
No changes for this modification -- IRB software will not let me move forward without a response.

Please outline your protocol for observation activities, describing when, where, duration, frequency, and with whom.

Researchers will conduct observations of Lumity programming in classrooms and at Lumity events outside of school (8 observations per participating school). These observations will focus on teacher and Lumity staff program implementation and broad student engagement. We will not record any identifying information for individual students.

Does this involve video, audio, or photograph recording?
No

Please note: Video/Audio classroom observations where students are present is not permitted unless every student present for the observation has active assent and parental consent.

Please describe how data will be captured and stored securely
Completed observation forms will be stored on a secure network drive at the University of Chicago, protected by VPN requirements and two-factor authentication.

How will you protect individuals who did not consent to participate in the observation, and what will non-consented students be doing during the observation(s)?
No names or other identifying information will be recorded.

Please attach all study materials corresponding to observation procedures (i.e., consent forms, protocol, recruitment and incentive plans)

Observation protocol - 2022.docx Observation Protocol

Will this research require the use or access of existing CPS data?

Yes

Detail all existing CPS data that will be analyzed in the research. If applicable, include links to the data in question and attach all applicable authorization agreements for private data
No changes for this modification -- IRB software will not let me move forward without a response.

Attach all applicable authorization agreements for CPS data
 Attachment required but not modified.docx   Misc/Other

Will this research require the use or access of existing non-CPS data?

No

Study Details

Please select all of the following that will be participating in the study?

Students
Teachers

Will any of these students be under the age of 18?
Yes

Please be aware that the inclusion of study subjects younger than 18 requires active, written consent from the parent(s) or guardian(s). The consent form needs to explicitly inform parents of their rights to review all materials used with their children as provided for in the Protection of Pupils Rights Act. Please ensure you have added the following statement to your consent form(s) verbatim, with the appropriate personalization for your study:

"Parents please be aware that under the Protection of Pupils Right Act 20 U.S.C. Section 1232 (c)(1)(A), you have the right to review a copy of the questions asked of or materials that will be used with your students. If you would like to do so, you should contact [INSERT APPROPRIATE CONTACT] at XXX-XXXX to obtain a copy of the questions or materials."

Has this project been reviewed by an Institutional Review Board (IRB)?

Yes, and it was approved

IRB of Record Name
University of Chicago

IRB Protocol Number
IRB19-1662

Please attach all of your IRB documentation here (include approval/exemptions letters, IRB study protocol, etc.).
 IRB Expedited Approval January 13 2020.pdf   IRB Letters

IRB of Record Primary Contact Email Address
sbs-irb@uchicago.edu

Please select your primary area of research from the following:

Science Curriculum

Secondary Study Subject(s)

STEM Education

Study Overview

Executive Summary or Abstract

Please provide a high-level overview of your study, including a summary of the motivation, design, and implications of the project.

No changes for this modification -- IRB software will not let me move forward without a response.

Research Questions and Hypothesis

Please list all research questions and hypotheses associated with this project.

No changes for this modification -- IRB software will not let me move forward without a response.

Purpose and Literature Review

Please provide an overview of the existing research and literature on this subject. What is the contextual history of this subject area and how does this research build upon the body of extant knowledge?

No changes for this modification -- IRB software will not let me move forward without a response.

Research Activities and Student/Staff Involvement

Please provide an overview of all primary and secondary research activities associated with this study. Please use this space to describe, as thoroughly as possible, all that will be asked of your research subjects (e.g. surveys, focus groups, observations, etc.)

No changes for this modification -- IRB software will not let me move forward without a response.

Research Methodology and Analytical Technique

Please provide an overview of your research methodology and specific analytical techniques that will be utilized as part of this study.

No changes for this modification -- IRB software will not let me move forward without a response.

Benefits and Commitment to Equity

Benefit to CPS

Which (if any) CPS vision goals does your research support?
No answer provided.

Click here to access more information on the CPS Vision Goals.

Which (if any) of the CPS core values does your research support?
No answer provided.

How does this project support the district broadly?
This is a research study of effective ways to support and increase student interest in STEM careers. If successful, this research will identify effective ways to connect CPS students to STEM careers.

Commitment to Equity

In what ways does this project reflect/challenge/progress the district's commitment to equity?
The Lumity program is committed to supporting success of students and presumes that all students can be successful when provided new opportunities.

Reflect on the district's equity framework as well as the following: As a researcher, what is my privilege / bias when it comes to this question? Am I assuming that Black and brown students will inherently perform poorly? Have I consulted those whose communities I want to research? Is the research designed with the holistic humanity of the people I am researching in mind? Do I perceive the communities I want to research as allies, or as research subjects? Am I interrogating / challenging policies and systems that may be contributing to inequities? Will this project create an undue burden on the communities I am seeking to research?

How are your research activities accessible to individuals with disabilities?
During two years of research we have not encountered any barriers to research participation.

Are your research activities translated into languages other than English as appropriate for the community?
Yes.

Please use the table below to list all District CPS Supporters and the role they will have in your study. Use the details box to describe your supporters' title and role in the district. List your primary supporter first.

Please click "save" after each line.

CPS Supporter Email Address	CPS Supporter Details

Link to New Contact Form
User had the option to start a different form here.

How will you share your research findings with the population(s) you are studying?
Research findings are shared with school administrators and participating teachers.

Research Activities

Start Date of Recruitment

08/31/2020

End Date of Recruitment
06/15/2024

Please provide the date that you will begin primary data collection

09/01/2020

Please provide the end date of primary data collection
06/15/2024

Please provide the date that you will begin analysis

05/01/2021

Please provide the end date of analysis
12/31/2024

Please provide the approximate date that you will finalize your research report.

06/01/2025

Description of Deliverable/Final Product (i.e., academic/journal article, white paper, memo, report)

Final product will be a report posted on ERIC (Education Resources Information Center) and submitted to the What Works Clearinghouse.

Will any portion of this research, including recruitment or consent, take place during or in any way interfere with standard activities?

No

With very few exceptions, research procedures cannot be carried out during or in any way interfere with standard activities, including instruction time or professional development sessions.

Will this study involve study subject randomization or a control group?

Yes

What will those in the control group receive instead of the intervention during or after the study is conducted? Please explain.
No changes for this modification -- IRB software will not let me move forward without a response.

Will your research employ study-subject deception or non-disclosure?

No

Will this research involve Product Testing?

No

Will this research involve collection of biological samples or biometric data?

No

Does this research involve other research procedures not described previously?

No

Is this research tied to a standard or novel curriculum, teaching or other program, staff professional development training or program, or other non-research activity or activities?

No

Does this study involve the use of educational technology (including survey tools, video conference platforms, and third party websites. See note for add'l details)?

No

Please be aware that under The Student Online Personal Protection Act, SOPPA (105 ILCS 85/), any platform students interact with must be compliant with current data security and student privacy regulations. Please note that this definition includes online survey tools such as Qualtrics. Please use the following website to check if your proposed platform is complaint with SOPPA: https://cps.app.learnplatform.com/new/public/tools

Study Population

Will you be submitting a secondary Data Request?

No

RRB Number
2020-1592-CPS

This is your RRB Number. Please reference this in any data request associated with this study.

Study Subject Inclusion Criteria

No changes for this modification -- IRB software will not let me move forward without a response.

If the research involves more than one study subject population (e.g. students, parents, teachers, staff), please individually detail the inclusion criteria for each.

Study Subject Exclusion Criteria

No changes for this modification -- IRB software will not let me move forward without a response.

If the research involves more than one study subject population, please individually detail the inclusion criteria for each

Please select all special populations that may be targeted for your study

No answer provided.

Describe the potential direct and/or indirect benefits for all detailed research procedures and populations

No changes for this modification -- IRB software will not let me move forward without a response.

Describe the anticipated potential risks, however minimal, associated with the detailed research procedures and subject populations

No changes for this modification -- IRB software will not let me move forward without a response.

How will the identified risks for all research procedures and subject populations be minimized and/or mitigated to the greatest extent possible?

No changes for this modification -- IRB software will not let me move forward without a response.

What procedures will you use in the event that research questions/processes produce observable stress/distress in subjects?

No changes for this modification -- IRB software will not let me move forward without a response.

Will you compensate study subjects?

Yes

Detail the proposed compensation (monetary and/or non-monetary) for each research procedure and population
No changes for this modification -- IRB software will not let me move forward without a response.

Student incentives must be appropriate, equitable, and reasonable in amount. All staff incentives are limited to $50 or less in a given year. Any amount in excess will require the secondary employment form to be completed by staff participants, or otherwise have the amount allocated to the school.

Describe when and where study subjects will be compensated and detail the mechanisms that will be in place to ensure study subject privacy when distributing compensation.
No changes for this modification -- IRB software will not let me move forward without a response.

Describe the compensation schedule for participants that withdraw from the research or that are withdrawn from the research by the study team.
No changes for this modification -- IRB software will not let me move forward without a response.

Study Recruitment

Outline every aspect of the recruitment process for students.

No changes for this modification -- IRB software will not let me move forward without a response.

Outline every aspect of the recruitment process for teacher participants.

No changes for this modification -- IRB software will not let me move forward without a response.

Please attach all recruitment materials not attached elsewhere (Optional).

No answer provided.

Please attach all consent/assent forms associated with this study not already attached elsewhere (Optional).

No answer provided.

Identify study team members who will recruit subjects.

No changes for this modification -- IRB software will not let me move forward without a response.

Will this research involve screening procedures

No

Compliance

FERPA

For more information on FERPA, click here.

Is any aspect of this research subject to FERPA?
Yes

Is the proposed research in compliance with FERPA?
Yes

ISSRA

For more information on ISSRA, click here.

Is any aspect of this research subject to ISSRA?
No

PPRA

For more information on PPRA, click here.

Is any aspect of this research subject to PPRA?
No

Permission, Confidentiality, and Security

Attach a draft of the permission letter that will be sent to school Principals

No answer provided.   *Please note that Principals have final authority over what happens in their schools.*

How will you protect the privacy of prospective research subjects? Please detail how study subject privacy will be protected during recruitment, screening, consent, and all research procedures. Provide an accounting for all applicable research procedures and study populations.

No changes for this modification -- IRB software will not let me move forward without a response.

Describe the data confidentiality or security provisions that will be in place for all research data.

No changes for this modification -- IRB software will not let me move forward without a response.

How will you store participant data?

With codes   *These details must be included in all applicable consent forms*

Describe the coding mechanism, indicate where links to codes will be stored, identify the individuals who will have access to coding keys or links, and clarify if codes will be deleted at a later date.
No changes for this modification -- IRB software will not let me move forward without a response.

Will you keep participants' contact information on file after the data have been collected?

No

Will you share individual-level data with other researchers or practitioners beyond the designated key research personnel?

No

What will you do with the data once the research has been completed (choose all that apply)?

Retain data for three years or longer post-completion, then destroy it

Please note that the district discourages storing study data for longer than three years after study completion.

Please describe the purpose for which you will be storing data after the conclusion of the study. Also, explain the planned duration (i.e. how long) you will retain data
No changes for this modification -- IRB software will not let me move forward without a response.

Attachments

Please attach all miscellaneous attachments

No answer provided.　　　　　*If you are resubmitting your protocol following initial review, please attach your response letter here.*

Are there any additional finalized contracts or agreements associated with this research that have not been attached elsewhere as part of this application (e.g. CPS Data Authorization Agreements)?

No

Are there any pending (i.e. not yet signed by both parties) contracts or agreements associated with this research that have not been attached elsewhere as part of this application?

No

Acknowledgements

Acknowledgements

Please acknowledge the following:

✔ All parts of this submission are accurate, complete, consistent, and clear.

✔ I have accurately and completely described all intended human subjects research procedures and the populations with whom they will be carried out.

✔ I have attached all study materials, including, but not limited to, all materials that will be given to, sent to, read to, or otherwise used with all prospective study subject populations.

✔ This submission adhere to all CPS policies and guidance as outlined in the link below

   https://www.cps.edu/about/district-data/conduct-primary-research/

✔ I have accurately identified all personnel who will be involved in this study.

✔ I acknowledge that any/all changes required by the CPS RRB in the course of its review of this submission will be reported to my IRB of record during the entire lifetime of this study.

✔ I attest that I will work with my IRB of record to address any concerns raised in the review of this submission.

✔ I attest that all of the research procedures detailed in this submission have been carried out with prospective IRB review and approval.

✔ I agree to comply with all background check and volunteer procedures required of my study, per the official CPS Volunteer Policy (link provided below):

   https://policy.cps.edu/download.aspx?ID=272

Submission Date

08/24/2022

All RRB new submissions, modifications, continuing reviews require a $50 processing fee. Please click on the following link to access our payment system. You will need to reference your assigned RRB number listed below:

CPS RRB/Data Request ePay System

Once you navigate to the Illinois E-Pay Site, please click on the blue text "RRB / Data Request Payment Option " to display the appropriate payment options. Once selected, your total will be displayed. Do not attempt to type in your total manually.

RRB #
2020-1592-CPS

Payment Confirmation Number
20000109

Verification of Previously Approved RRB
- Submitted 12/06/2022 2:06 PM ET by Corson, Adam
Office Verification

Ready for processing?

Ready for processing

Verify RRB #

2020-1592-CPS

Please indicate which of the following applies.

Project Currently Exists within IRBManager

Office RRB # Lookup

2020-1592-CPS

CR/Mod Processing

Ready for Review

Approve

Approval Date

12/06/2022

Approval Period (in number of months)
12

Existing Background Check Level
N/A

Existing Background Check Justification
N/A

Does background check level need to be updated?
Yes

Updated Background Check Level
Level I

Updated Background Check Justification
Interviews with students

Please update the existing background check justification as needed.

Notes for Letter
Please note that background checks need to be completed every year, and expire June 30.

RRB Meeting Date for Notification

03/03/2023

Current School Sites

609674 - Chicago Vocational Career Academy High School
609695 - Roald Amundsen High School
609737 - Friedrich W von Steuben Metropolitan Science HS

School Sites Chosen Within Data Entry
Chicago Vocational Career Academy High School
Friedrich W von Steuben Metropolitan Science HS
Roald Amundsen High School

School Contacts for Sites Chosen
Lloyd Maclin, Douglas
    Email: DLMaclin@cps.edu   **Phone:**

Miyoko Sutton, Jennifer
    Email: jmsutton@cps.edu   **Phone:**

Pavichevich, Anna
    Email: apavichevich@cps.edu   **Phone:**

Are the Supplementary Sites the same?
False

Administrative Reviewer

Corson, Adam
    Email: ACorson1@cps.edu   **Phone:**

Review Generated Letter and Confirm Before Sending

RRB

2020-1592

Study Title
Student Perceptions of STEM Career Readiness in CPS

Principal Investigator
Sutter, Carolyn

Email: csutter@uchicago.edu   **Phone:**

Redisplayed Board Determination

Determination Letter

In some cases you may see other determination letters attached by the submitter. However, only the generated determination letter will be sent in the decision email.

Name	Type	Date
RRB#2020-1592-Carolyn Sutter 2022-12-06.docx	Determination Letter	12/06/2022

This determination letter will be automatically attached to an email being sent to the principal investigator.

Please use the link below, click on the Attachments link on the left side of the page if you need to upload an edited version of the above letter.
Modification/Continuing Review defined 12/06/2022

Output Background Check Level

N/A

Additional Attachments to Decision Email

No answer provided.

Notes for Determination Email

No answer provided.

Study Site Contact Background Check Expirations

Name	Role	Background Check Expiration
Sutter, Carolyn	Coordinator	Missing
Sutter, Carolyn	Principal Investigator	Missing

Please use the text box above to indicate the background check level required or any other pertinent information.
Level I

Background Check Level Justification
Interviews with students

Other Notes in Letter
N/A

RRB Meeting Date for Acknowledgment of Final Determination

03/03/2023   *Please select the next meeting date of the RRB.*

Please enter the date by which the coordinator should submit the Data Use Agreement. Automatic notifications will be sent out based upon this date.

01/31/2023

Unable to add 'Lumity interview synthesis 8.18.21.pptx' inline in PDF.

Automatic conversion of this type not currently supported.

Attached to PDF instead.

Unable to add 'Year 1 Lumity student questionnaire synthesis 9.21.21.pptx' inline in PDF.
Automatic conversion of this type not currently supported.
Attached to PDF instead.

Student Interview Protocol

Introduction (5 minutes)

Hello, and thank you for your interest in participating in this interview. My name is ____ and I am here as part of a study at the University of Chicago that is trying to learn about student experiences with the Lumity program.

If you decide to participate in this interview, I will ask you some questions about what you think about Lumity lessons and activities. We'll have approximately 25 minutes, but we don't need to use all of that time if you don't want to, and we can take a break at any point if you'd like. I would like to record our interview and taking notes during our conversations for research purposes, because I want to make sure I accurately document what you say.

It is important that you understand that I will protect your privacy. We won't quote you by name, and no information that you tell me will be attributed to you. This means that nobody at your school will know what you, individually, said. I may share general findings and recommendations with our collaborators but never in a way that they could identify you. I may also share things that I learn with other researchers in research reports, but never in a way that people will know what you personally said. There are no right or wrong answers to any of these questions.

There will be no negative consequences (which means nothing will happen to you) if you choose not to answer our questions during our interview. If you decide you don't want to participate in the interview, or answer any particular questions, that is totally okay. Your grades and your relationship with your school, teachers and classmates will not be affected if you choose to not participate in the study or if you choose to stop participating at any point.

If you don't want to answer a question you can always just say "pass" and we can skip it. Do you have any questions?

Do you give us your permission to participate in this interview?

Do you give us your permission to record this interview?

Overall Experience in the program:

1. First, I want to hear about your experience in some different Lumity activities.
   - Have you participated in any STEM Career Readiness Modules? This is a lesson that may have been delivered in your class by the Lumity instructor.
   - What are these lessons like?
   - What has been the best part? Why? What has been the worst part? Why?

   - What are the one-day challenges like?
   - What has been the best part? Why? What has been the worst part? Why?

- o Have you participated in any STEM talks? This is when a guest speaker comes to your class to talk about their STEM career.
- o What are these STEM talks like?
- o What has been the best part? Why? What has been the worst part? Why?

- o Have you participated in any one-day challenges? This is when you spend a day working on a specific problem.
- o What are the one-day challenges like?
- o What has been the best part? Why? What has been the worst part? Why?

- o Have you participated in any real-world projects?
- o What are the real world projects like?
- o What has been the best part? Why? What has been the worst part? Why?

- o Have you participated in any career site visits? This is when you leave school to visit a company or organization to learn about STEM careers.
- o What are the real world projects like?
- o What has been the best part? Why? What has been the worst part? Why?

Thinking about all of the activities we've just discussed (STEM Career Readiness Modules, STEM talks, Real World projects, one-Day challenges, and career site visits):

- o What parts of the program would you like to do more of? Why?
- o What parts of the program would you like to do less of? Why?

2. Tell me about working with the Lumity instructors?.
- o How has this been different from working with teachers you've had (if at all)?

Interest
3. Have you learned about anything in Lumity activities that has made you more interested in Science? Technology? Engineer? Math?
- o Have your feelings about STEM majors and careers changed now that you've had some experience with the Lumity program? How?
- o Have your skills changed now that you've had some experience with Lumity program? How?
  - ▪ Probes: problem-solving, critical thinking, using computers, preparing for your career, working with other students, understanding strengths and weaknesses. Ask for examples.

Self-efficacy/Confidence
4. Do you feel like you understand or are "getting" everything that you've done in Lumity so far? Why or why not?
5. Has your confidence in studying or working in (Science) increased, decreased, or stayed the same throughout the year?

- o Technology/computers?
- o Engineering?
- o Math?

Usefulness
6. How important do you think the Lumity activities are for your career?
    - o How important do you think Lumity activities are for the rest of your high school years? Have they helped prepare you at all?
7. What skills does someone need to be good at STEM areas either relate to work or study?
    - o Do you feel like you have those skills?
8. To what extent, if at all, has the Lumity program so far changed your opinion of or point of view about STEM?
    - o What about your perception of the kind of people interested in and good at STEM?

Personalization
9. Do you think that Lumity instructors make activities interesting and relevant to you?
    - o What are some of the ways that this program makes them interesting and relevant to you? Can you give some examples?
10. Are there other ways that you think your teachers or Lumity instructors make your learning personal to you?
    - o Probes: This might be related to your interests, or abilities, or any way that you feel that your learning experiences are personalized.

College & Professional
11. Are you interested in looking for a job in STEM areas or majoring in STEM areas in college?
12. How do you see knowledge and skills you have learned through Lumity program fitting in with your ideas about a future career or academic choices?
13. How do you feel you are prepared for majoring in STEM areas in college or working in STEM areas in the future?

No changes for this modification -- IRB software will not let me move forward without a response.

Classroom Observation Protocol: Lumity Classes and Partner Activities

School Name		Observer Last Name	
Teacher / Leader Last Name		Observer First Name	
Grade		Time Start/End	/
Date of Observation (mm/dd/yyyy)		Access to lesson plan/rubric?	Y N

Contextual Information

In the space below, document any contextual information that may influence the results of this observation. This includes:

- The portion of the class you observed (beginning, middle, end)
- Any major interruptions (i.e. those that significantly influenced the instructional flow) such as student misbehavior, long announcements, distracting visitors, power outages, fire drills, etc.
- Other adults present during instruction (aides, student teachers, parents, guest speakers, visitors, etc.)

Describe how much of the lesson/activity is lecture-style, independent work, group work, and/or other types of instruction/learning. (Try to estimate general percentages of the time spent observing for each type)

Student Engagement

Describe overall student engagement (Note: DO NOT observe specific students; these are global assessments):

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Working in Teams

Does the teacher/facilitators have students work in teams? If yes, describe the general objective and engagement.

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Active reasoning, problem-solving, supporting conclusions with evidence

Does the teacher/Lumity staff member facilitate students actively working through problems or complex questions? If yes, generally describe:

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Is content accessible for students? (Circle) YES   NO   SOMEWHAT

Please describe:

Are the teachers/facilitators (NOT Lumity staff member) confident in their execution of the lesson/activities observed? (Circle)

YES   NO   SOMEWHAT

Please describe:

Do the teachers/facilitator(s) (incl Lumity staff member) need to adapt the lesson due to challenges ?

YES   NO

Please describe:

Do students receive personal attention from the teacher(s)/facilitator(s) (incl Lumity staff member)?

YES   NO   SOMEWHAT

Please describe:

[ ]

Please indicate any other important information about the lesson, activity, instruction quality, and general student engagement.

[ ]

No changes for this modification -- IRB software will not let me move forward without a response.

AURA

THE UNIVERSITY OF
CHICAGO

SBS-IRB
1155 East 60th Street
Chicago, IL 60637-2745
SBS IRB website: http://sbsirb.uchicago.edu/

Notification of Expedited Approval

Date of Letter: 1/13/2020

Protocol Number/Submission Link: IRB19-1662

Type of Submission: New Study

Status: Approved - Continuing Review Not Required

Principal Investigator: Melanie LaForce

Protocol Title: STEM Career Readiness CPS

Risk Level: Minimal Risk

Consent Type: Waiver of Documentation of Consent
Written Assent Obtained
Parental Permission Obtained
Written Consent Obtained

Authorization Type: There are no items to display

Vulnerable Populations: Children

Funding:
Outlier (in UCSTEMEd, Physical Sciences Division) has been awarded a subcontract from the Lumity organization, a non-profit organization that provides educational services. Lumity received a Department of Ed (EIR) grant.

Approval Date: 1/13/2020

The above-referenced study was approved by the IRB.

If the study continues to be conducted as currently approved by the IRB, no further continuing review is required by the IRB. However, if changes are made to the approved study, please submit an amendment to the IRB. If an unanticipated problem occurs, please notify the IRB.

The IRB may require that an update on your current study status be submitted in the future. You will be notified when this report should be submitted.

If you need assistance, please contact the IRB office at sbs-irb@uchicago.edu.The current SBS IRB policies and procedures are available at https://sbsirb.uchicago.edu/page/sbs-irb-policies-and-procedures

Important Notes:

- **Funding Changes:** It is the principal investigator's responsibility to notify the IRB if a study's funding status changes. If the study receives external funding at any point, you must notify the IRB. Funding can alter review requirements.
- **Amendments:** All proposed changes to the study (including personnel, procedures, and/or documents) must be approved by the IRB in advance through the amendment process.
- **Unanticipated Problems involving Risks to Subjects or Others:** The research team must inform the IRB of all unanticipated problems that occur during the research study that may involve risks to research subjects or others – these include, but are not limited to, events and/or loss of information that may have physical, psychological, social, legal, or economic impact on the research subjects or others.
- **End of Study:** When all study activities are complete or the study is no longer active, please submit a termination request to formally close it. Termination requests are submitted in AURA by selecting "Termination by PI".

12/06/2022

Carolyn Sutter

Dear Sutter,

Thank you for your interest in conducting research in The Chicago Public Schools. The Research Review Board has reviewed your Modification proposal 12/06/2022 for research, titled: Student Perceptions of STEM Career Readiness in CPS.

The Research Review Board has completed the review of your Modification proposal and has approved your request to conduct this research. Although your study is approved, school principals have final authority over activities that are allowed to take place in the school. If data collection continues beyond a year from this approval, please complete the Modification & Continuing Review Process Form through IRBManager.

Please note the following--

Background Check Level Required: Level I

Other Notes: Interviews with students

Upon completion of the research study, a copy of the final report or summary of the results must be provided to the Research Review Board. The Board reserves the right to use the information in the research report or summary for planning, solicitation or grants, and staff development.

Please note that your study has been assigned Project ID #2020-1592. If you have any questions, please contact our office by email at research@cps.edu.

Sincerely,

Sarah Dickson
Co-Chair, Research Review Board