
Thursday, May 9th from 3 – 4 PM EDT

AGENDA

Welcome & NACCE Updates– Dr. Rebecca Corbin,
NACCE

Verizon Updates – Verizon Foundation

Survey Updates – Cindy Ziker, SRI

Nepris Training – Christina Carrion, Nepris

Q&A

NACCE Updates – Dr. Rebecca Corbin, NACCE

The make/*SHIFT* Symposium was attended by almost 250 people

- Presidents, faculty, students and many “maker” vendors participated.
- Plans are underway for a Make/*SHIFT* 2.0 in June of 2020 in Coeur d'Alene Idaho at North Idaho College that has a 100,000 square foot makerspace




**Verizon Innovative Learning
Summer Program
Data Collection Training**

Cindy Ziker, Ph.D., M.P.H.

May 9, 2019

SRI's Evaluation Activities



VIL Pre-Post
Academic
Year Survey

VIL Pre-Post
Summer
Survey and
Assessment

VIL Staff
Survey
(August)

VIL
Longitudinal
Study
(Ongoing)

SRI's Evaluation Activities

- Post Survey for the VIL Academic Year Program;
- Collaborate on IRB approval to conduct research on each campus;
- Training for VIL Pre-Post survey/assessment administration;
- Site Visit Observations, Interviews and Focus Groups;
- Data analysis; and
- Impact Reports

Overview of VIL Program Metrics

Social Change

OUTPUTS

SHORT TERM (Up to 6 mo.)

Participants reached;
services/products delivered

- Number of participating students
- Number of participating educators
- Number of participating schools
- Number of participating non-school locations (e.g., clubs)
- Student demographics (including age, grade level, gender, %FRL, race/ethnicity)
- Number of products (i.e., apps) developed

OUTCOMES

MID TERM (6 mo. – 2 years)

Understanding of potential;
changes in behavior

- Percentage of participating students with increased engagement in school
- Percentage of participating students with increased academic performance
- Percentage of participating students with increased interest in STEM subjects
- Percentage of students with increased technology proficiency
- Percentage of participating students with increased STEM proficiency
- Percentage of participating students with increased problem-solving skills
- Percentage of participating students with increased communication skills
- Percentage of participating students with increased collaboration skills
- Percentage of participating students with increased confidence

IMPACTS

LONG TERM (2+ years)

Implementation of long term
social change

- Percentage of students with an increased interest in attending a two-year college/four-year college/vocational school
- Percentage of students with increased interest in a STEM career
- Percentage of students who are more aware of STEM careers
- Percentage of students who are aware of how technology is used in their career of interest
- Percentage of students with increased interest in starting their own business

VIL Program Activities

SRI's Evaluation Metrics

- Percentage of participating students with increased interest in STEM subjects in the future;
- Percentage of participating students with increased communication skills;
- Percentage of participating students with increased collaboration skills;
- Percentage of participating students with increased confidence;

Examples of Survey Questions:

Please rate your interest in taking classes in the following subjects in the future.

	No Interest (1)	Low Interest (2)	Some Interest (3)	Moderately Interested (4)	Very Interested (5)
A. Science (Q5_1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. Technology (Q5_2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. Engineering (includes solving problems in systematic ways) (Q5_3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D. Mathematics (Q5_4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E. Design (includes 3D design) (Q5_5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
F. Computer Science (Q5_6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

SRI's Evaluation Metrics

- Percentage of students with an increased interest in attending a two-year college/four-year college/vocational school;
- Percentage of students with increased interest in a STEM career;
- Percentage of students with increased interest in starting their own business;
- Percentage of students who are more aware of STEM careers;
- Percentage of students who are aware of how technology is used in their career of interest;

SRI's Academic Performance Metrics

Percentage of students with increased technology proficiency, as evidenced by demonstrated proficiency in:

- the Design Thinking Process
- 3D Modeling and Printing;
- Coding and Programming
- Physical Science and Electrical Engineering
- Mathematics and Problem Solving

SRI's Assessment Metrics

A student designed eight key chains. He wants to print them using a 3D printer. Each one takes three minutes to print. How long will it take to print all eight key chains?

- A. 10 minutes (1)
- B. 16 minutes (2)
- C. 24 minutes (3)
- D. 30 minutes (4)

SRI IRB Materials

- VIL Student Assent/Parent Consent Form
- SRI IRB Approval Letter
- Copy of the VIL Survey Instrument

Please contact Cindy Ziker with IRB questions at cindy.ziker@sri.com

Questions?

SRI Evaluation Data Collection Materials

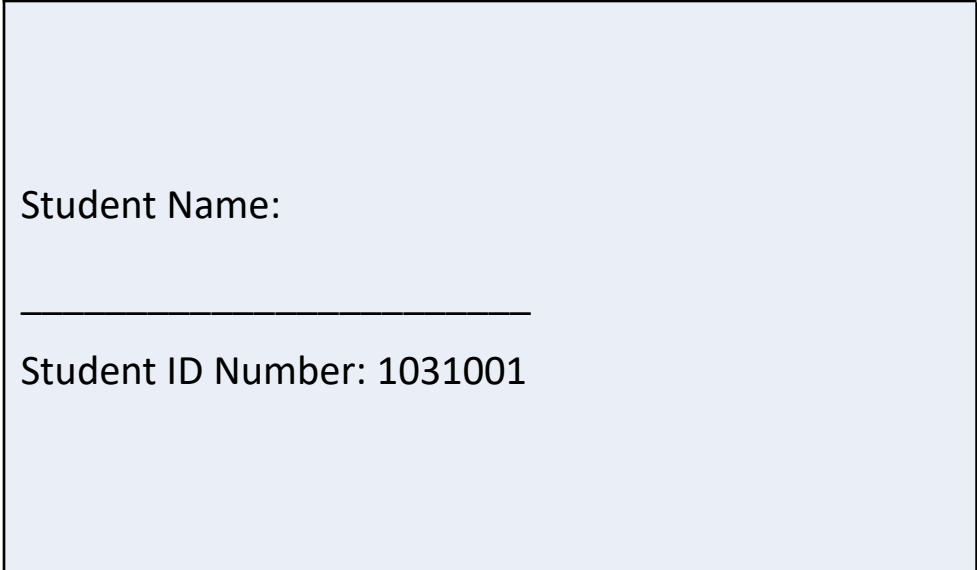
- VIL Survey Administration Instructions
- VIL Survey Administration Script
- Student ID cards
- Roster

Rosters

Add students' names to the roster and use this list to create the student ID cards; alternatively, have students' write their names on the ID cards and add their names to the roster after the pre-test.

	C	D	E	F	G	H	I	J	K	L	M
1	University	Location	Year	Univ_code	Post	Stu_code	Student Name	Survey	Link	Seq	
2	Kentucky State University	Lexington, KY	2	3	2	TEST		Post	goo.gl/tp4U76	803	
3	Kentucky State University	Lexington, KY	2	3	2	1		Post	goo.gl/tp4U76	804	
4	Kentucky State University	Lexington, KY	2	3	2	2		Post	goo.gl/tp4U76	805	
5	Kentucky State University	Lexington, KY	2	3	2	3		Post	goo.gl/tp4U76	806	
6	Kentucky State University	Lexington, KY	2	3	2	4		Post	goo.gl/tp4U76	807	
7	Kentucky State University	Lexington, KY	2	3	2	5		Post	goo.gl/tp4U76	808	
8	Kentucky State University	Lexington, KY	2	3	2	6		Post	goo.gl/tp4U76	809	
9	Kentucky State University	Lexington, KY	2	3	2	7		Post	goo.gl/tp4U76	810	
10	Kentucky State University	Lexington, KY	2	3	2	8		Post	goo.gl/tp4U76	811	
11	Kentucky State University	Lexington, KY	2	3	2	9		Post	goo.gl/tp4U76	812	
12	Kentucky State University	Lexington, KY	2	3	2	10		Post	goo.gl/tp4U76	813	
13	Kentucky State University	Lexington, KY	2	3	2	11		Post	goo.gl/tp4U76	814	
14	Kentucky State University	Lexington, KY	2	3	2	12		Post	goo.gl/tp4U76	815	
15	Kentucky State University	Lexington, KY	2	3	2	13		Post	goo.gl/tp4U76	816	
16	Kentucky State University	Lexington, KY	2	3	2	14		Post	goo.gl/tp4U76	817	
17	Kentucky State University	Lexington, KY	2	3	2	15		Post	goo.gl/tp4U76	818	

Student Log in Information Card



Student Name:

Student ID Number: 1031001

Complete the Student ID Cards with students ' names during the Pre Test.
Collect these and distribute them to the same students during the Post Test.

Student Log in ID Cards:

Print out the Student Log-in ID cards using Avery 5376 Business Card paper

Student Name: _____ Student ID Number: 1031001	Student Name: _____ Student ID Number: 1031006
Student Name: _____ Student ID Number: 1031002	Student Name: _____ Student ID Number: 1031007
Student Name: _____ Student ID Number: 1031003	Student Name: _____ Student ID Number: 1031008
Student Name: _____ Student ID Number: 1031004	Student Name: _____ Student ID Number: 1031009
Student Name: _____ Student ID Number: 1031005	Student Name: _____ Student ID Number: 10310010

Timeline for Administering the VIL Pre-Post Survey/Assessments

- Administer the Pre Survey and Assessment on the first or second day of the program.
- Administer the Post Survey and Assessment on Wednesday or Thursday during the last week of the program. The urls will not be the same.
- The survey and assessment will take about 20-30 minutes.
- Please have an activity prepared for students who finish early or who do not provide a consent form in order to participate in the survey.
- Consent forms should be collected and checked before students take the survey. Every student must have a signed consent form in order to take the survey and assessment.

Step by Step Directions for Pre- Survey

Step 1: Write the correct URL for the 2019 Summer VIL Pre Student Survey and Assessment on a visible white board or post on a big screen. The URL will be in the Pre Survey Materials email that you will receive. Test this url to ensure that it is accessible from the computers your students will be using. The urls for the Pre are not the same as the Post. You will receive a separate email with the Post Survey link to the url.

Step 2: Provide each student with a Student Log In card and ask them to write their name on this card. Alternatively, you can prepare these cards with the students names on them and hand them out.

Step 3: Direct students to go to an internet browser and type in the URL for the 2018 VIL Summer Pre Student Survey and Assessment.

Step 4: Direct students to enter the Student ID from the Student Log-in card provided to start the survey.

Step 5: Once students are successfully logged in, collect the cards and enter any new students' names in the provided roster. Keep these cards in a safe place to use for the Post Survey (recommend a zip-lock bag).

Administering the VIL Surveys and Assessments:

To ensure the integrity of the survey and assessment data, students should be informed of the purpose of their participation in this activity and disruptions should be minimized. With good planning, students will have a positive experience.

- Read the provided script to establish a positive mindset before logging in to the survey tool.
- Have an additional activity prepared for students who finish early or who do not provide a consent form in order to participate in the survey.
- Participation is voluntary. Students can opt out of taking the surveys and assessments. Please prepare an alternative activity for these students.

Questions

If you have any issues with accessing the on-line survey site or navigating through the survey, please email cindy.ziker@sri.com or Ron.Fried@sri.com.

Many thanks for you efforts!

Cindy Ziker, Ph.D., at 650-859-2689 or cell: 480-694-6753.

Nepris Training– Christina Carrion, Nepris

- **Introductions**
- **Verizon Summer Learning Expectations**
- **What is Nepris?**
- **How to Navigate Nepris**
- **How do Prepare Students**

Thank you!

