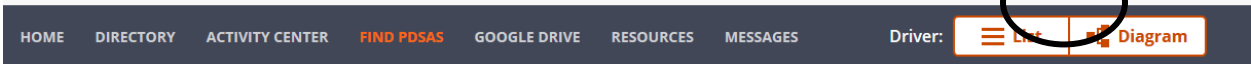


Ready to enter your Plan-Do-Study-Act (PDSA) Cycle in NILS?

Go to <https://first2network.carnegienetworks.org/> and sign in

Click on the list view of the driver diagram



Beside any change idea you will see three little dots. Click to start a PDSA from there.



CHOOSE GUIDED PDSA! This enables others to copy your PDSA and try it.

PDSAs build on change ideas. You can also start a PDSA cycle by clicking on any change idea .

Change idea: Bridge Immersive Experience

Goal
STEM self-efficacy and motivation will increase among students who participate in authentic STEM experiences that begin early enough to have an impact on persistence

Have authentic STEM experience.

Based on a literature review of factors influencing STEM persistence, and our collective experience as educators, we identified STEM self-efficacy and motivation in first-generation college students as a **primary driver** of persistence.

Details
The change idea is to engage 30 rising freshmen in piloting a 2-week research internship for rural first-generation college STEM students in the summer prior to their first year of post-secondary education. The internship will engage students in Solar Army research activities. Solar Army is a national program devoted to basic research and development to find catalysts that assist sunlight in splitting water to yield a chemical fuel, hydrogen. During the first week of the internship, university faculty at a rural university campus will work with students during hands-on activities. During the second week, industry scientist and university faculty will work with students at the site of a local industry partner.

PDSA (3) [Start Guided PDSA](#) [Start Freeform PDSA](#)

PDSA#	Tester	PDSA	Status
4	Sue Ann Heatherly	Change idea: Bridge Immersive Experience, PDS... We will compare NILS to the checklist	Completed March 9, 2020
3	ericaharvey	Change idea: Bridge Immersive Experience, PDS...	In progress October 17, 2019
1	ericaharvey	Change idea: Fairmont/Chemours Bridge Immer... A pre and post survey will be administered to all participating interns who are 18 or over.	Completed October 10, 2019

More Change Ideas

DRIVER
3.3 Early Authentic STEM... ▼

CHANGE IDEAS
Change idea: Bridge Immersiv...
STEM self-efficacy and
... ..
2 PDSAs Completed

PLAN

The Plan portion of the PDSA in NILS has three steps. In **Step 1** you enter the core learning questions you want to answer. You may find some pre-populated from the change idea section in NILS. However, you can delete one or more of these if they are not germane to your PDSA, and you can add your own. In **Steps 2 and 3**, detail your plan for answering your questions/ testing your change ideas. Then you can share the PDSA plan if you choose.

Plan Your PDSA

< PREV

Step 1 of 3

NEXT >

Cancel

Save Updates

PDSA Title

Change idea: Bridge Immersive Experience, PDSA #4

Learning Questions

Here are the core learning questions provided by the community. Please fill in your predictions and/or add your own questions.

i Asking Good Questions

The Plan section allows you to record what you need to do before you run the test. This step often requires the most thought, since it is important that your test is relatively easy to run and allows you to learn something.

Question 1

REMOVE 

Question

To what extent does the NILS system match the checklist document we will use to train working groups?

Prediction

The checklist and NILS system matches perfectly

Data

What data will you use to verify your findings? **At least one type of data is required**

QUANTITATIVE

Off

I will collect quantitative data.

QUALITATIVE

On

I will make qualitative observations.



< PREV Step 2 of 3 NEXT >

Cancel Save Updates

When do you plan to complete your test?

You can revise this date at any time.

Mar 16, 2020

Logistics

We will compare NILS to the checklist

Supplies and Materials (optional)

side by side comparison

Add Your Own Resources (optional, max file size: 15 Mb)

Upload

< PREV Step 2 of 3 NEXT >



< PREV Step 3 of 3 NEXT >

Change idea: Bridge Immersive Experience, PDSA #4

You've completed your plan!

Share your Plan

<https://first2network.carnegienetworks.org/pdsa/309/>
Enter email to sharing

Share via email

Get Feedback

Interested in feedback from resource people? (No listed resource people.)

Share plan

< PREV Step 3 of 3 NEXT >

Next: Do >

DO

Carry out your plan. Describe what happened in the Do section. Please provide details so that someone else could try your PDSA.

Home > Change idea: Bridge Immersive Experience > Change idea: Bridge Immersive Experience, PDSA #4

✓ Plan Do Study Act

Do Your PDSA

Collect Data View Data

Question 1

To what extent does the NELS system match the checklist document we will use to train working groups?

Qualitative:

Date	Observations	
Mar 9, 2020	Screen shots of each NELS pdsa section are compared to the training checklist. We pay special attention to the ancillary info shown beside each fillable form box.	Remove

Collecting Data

Describe what happened during the test, especially if it differed from your plan. Also, describe anything that was unexpected, difficulties you had with the test or data collection, or general observations you have about what happened during the test.

Next: Study >

STUDY: Analyze your data. Did you get desired or predicted results?

Home > Change idea: Bridge Immersive Experience > Change idea: Bridge Immersive Experience, PDSA #4

✓ Plan ✓ Do **Study** Act

Study Your PDSA

Question 1

Question
To what extent does the NILS system match the checklist document we will use to train working groups?

Prediction
The checklist and NILS system matches perfectly

Qualitative:

Date	Observations
Mar 9, 2020	Screen shots of each NILS pdsa section are compared to the training checklist. We pay special attention to the ancillary info shown beside each fillable form box.

In reviewing your results from the Do section, how do they compare to your predictions?

A comparison shows that the expanded checklist refers to change ideas which are generally created before the ~~pdsa~~ is launched in a different section of NILS. (questions 1 and 2 in the checklist).

Cancel Save

Study

For each question and prediction that you made, describe "what happened" in the first text box. Was each prediction correct or not? This helps you check if your overall theory is correct. In the second text box, briefly describe any other observations about what you learned as you ran this test.

ACT: What are your next steps? Will you make changes and try the PDSA cycle again? Or will you adopt or abandon? State your reasons.

Home > Change idea: Bridge Immersive Experience > Change idea: Bridge Immersive Experience, PDSA #4

✓ Plan ✓ Do ✓ Study **Act**

Act

Which action will you take?

Adopt Adapt Abandon

I want to continue with this Change Idea *I will adjust and try again* *I will not try this again*

How are you going to iterate on this Change Idea?

We need to further align the language between the expanded checklist and NILS to make the document more user friendly

Cancel Save