

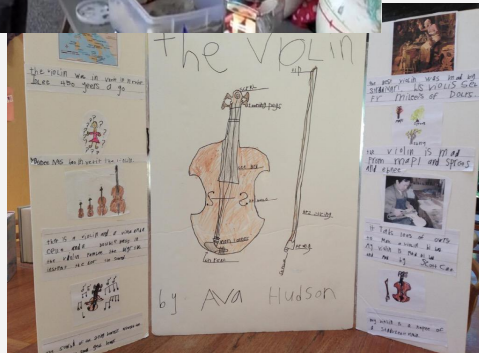
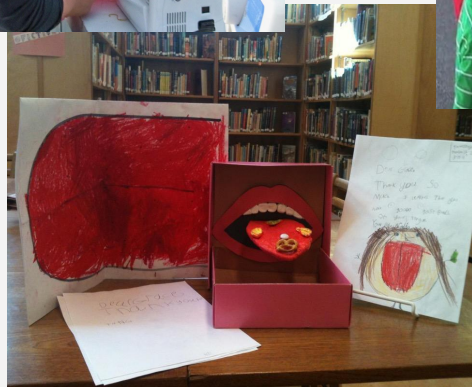
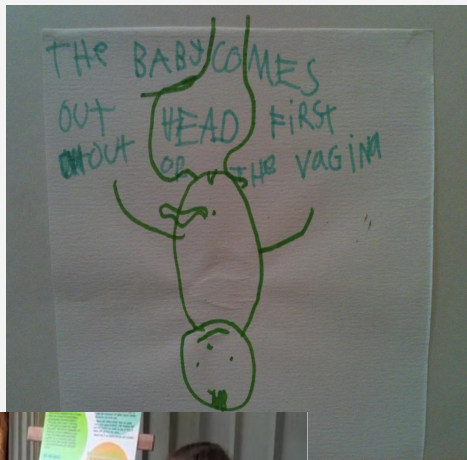
Let the Learners Drive with Student-Driven Inquiry

Shelly Buchanan PhD

Arbor School Librarian & Teacher
San Jose State School of Information Adjunct Professor
shellycbuchanan@gmail.com

My Story

- My personal observations
- My personal classroom experience
- My feelings of urgency to research & develop the unique framework



Our Road Trip Today

- Why the Research
- The Research
- The SDI Learning Framework
& Implementation
- Q & A

Landscapes of Investigation

- Inquiry-Based Learning
- Information Literacy
- Student Motivation
- **Self-Determination Theory in Education**

Self-Determination Theory

(Deci & Ryan, 2000; Niemiec & Ryan, 2009)

- Autonomy
- Competence
- Relatedness



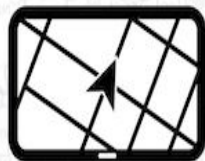
Research Findings

In SDI, via the Independent Project students experience...

- **Autonomy**
- **Motivation and Engagement**
- **Academic Challenge**
- **Research Raper as Foundational**
- **Stress (Eustress?)**
- **Available Support**
- **Expertise**
- **Satisfaction/Enjoyment**

(Buchanan, 2021)

Road Trip



Exploring Routes



Tuning the Car



Starting the Engine



Putting in the Miles



Hitting the Road



Prepping for the Car Show



Sharing the Memories



Assessing the Trip



Planning the Next Trip

Making Course Corrections



Why a road trip with your students?

Because the IP experience generates...

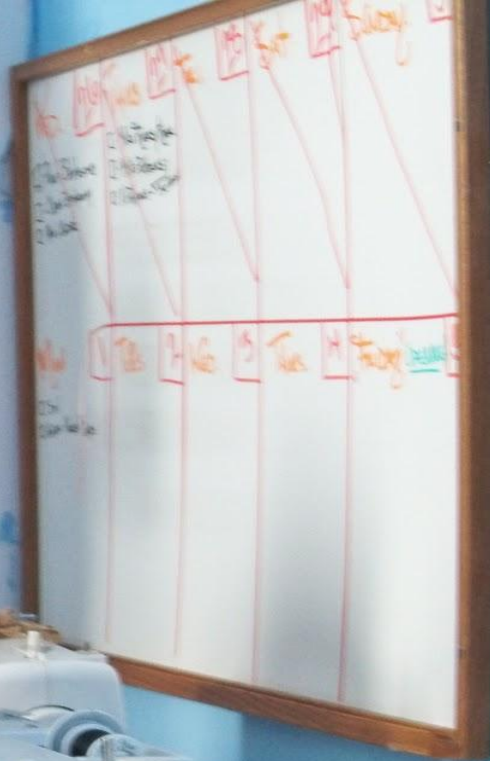
- AUTONOMY
- MOTIVATION & ENGAGEMENT
- ACADEMIC CHALLENGE
- RESEARCH PAPER AS FOUNDATIONAL
- (motivational) STRESS
- AVAILABLE SUPPORT
- EXPERTISE (or Deeper Learning)
- SATISFACTION/ENJOYMENT
- DISCERNMENT
- CURATION
- READING
- SHARING & PRESENTING
- CURIOSITY
- CREATIVITY & INNOVATION
- DIFFERENTIATION
- IDENTITY DEVELOPMENT
- IMMERSION

(Buchanan, 2018)





KEEP
CALM
AND
CARRY
ON



ARBOA SCHOOL OF ARTS/SCIENCE
30119481

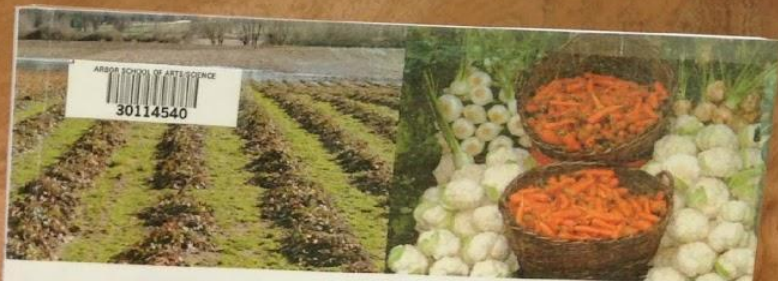
~~Cooking~~
COOKING



641.5
DTR

By

~~Stacy~~
Stacy

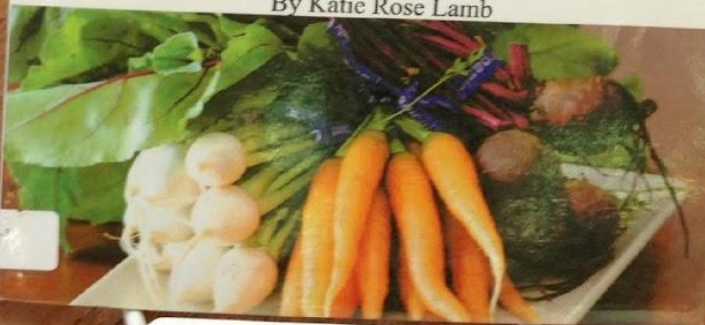


ARBOA SCHOOL OF ARTS/SCIENCE
30114540

The Local Kitchen

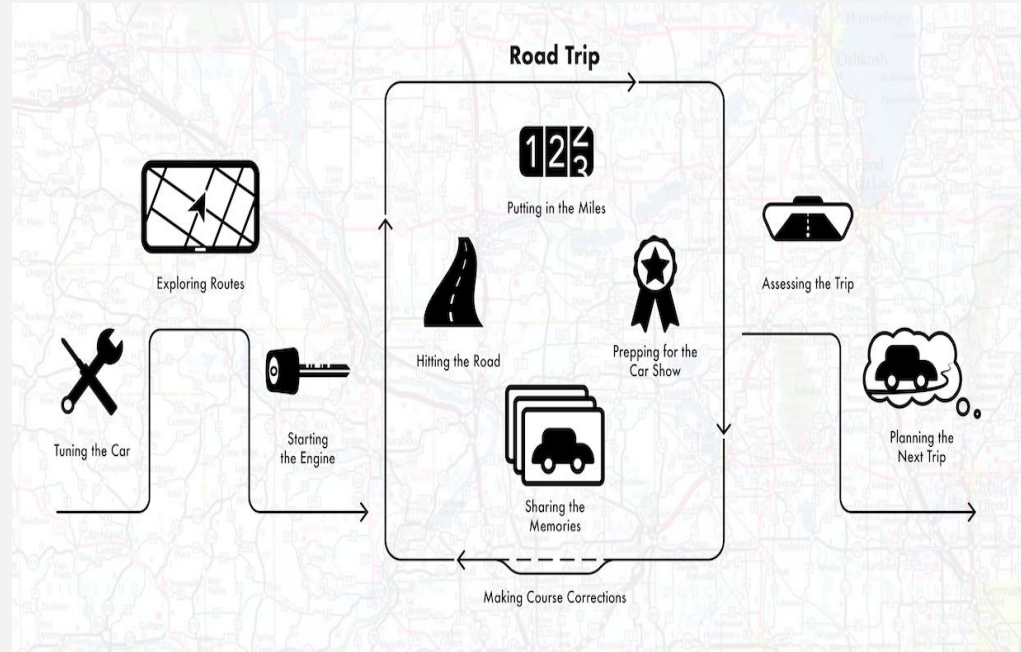
Four seasons of cooking from
Portland farmers' markets

By Katie Rose Lamb

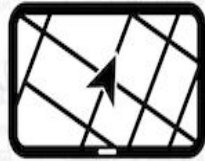


Via the Independent Project, students take control as they....

- Tune the Car
- Explore Routes
- Start the Engine
- Hit the Road
- Put in the Miles
- Prep for the Car Show
- Share the Memories
- Assess the Trip
- Plan for the Next One
- **Reflect Throughout**



Real Time



Exploring Routes



Tuning the Car



Starting the Engine



Hitting the Road



Sharing the Memories



Putting in the Miles



Prepping for the Car Show

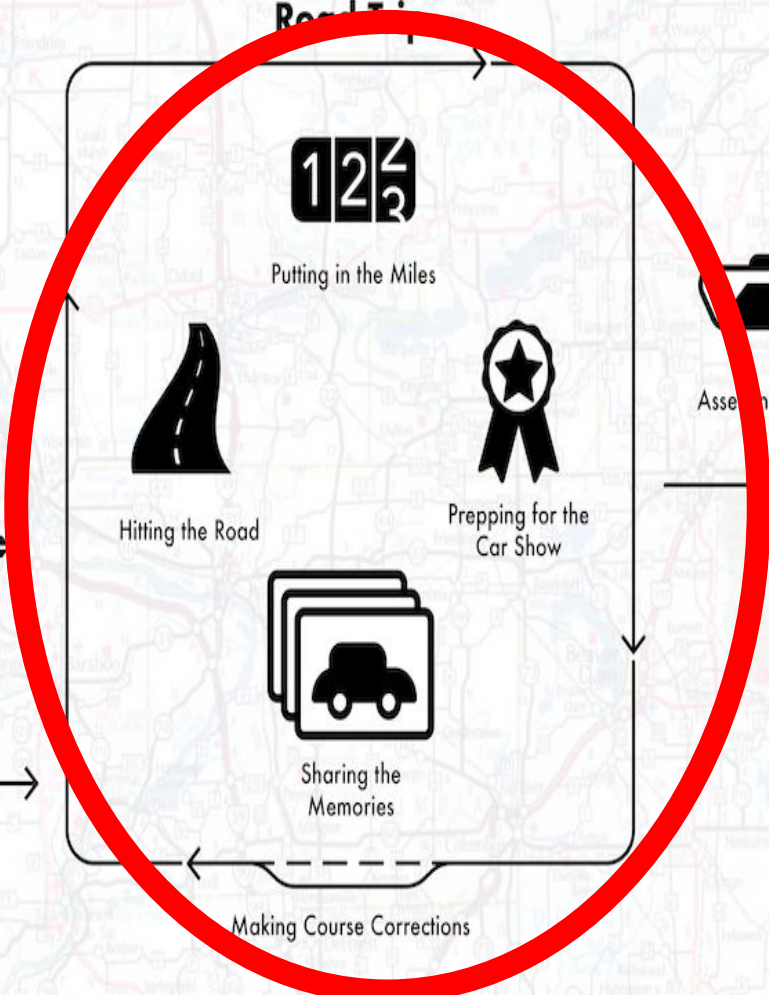


Assessing the Trip



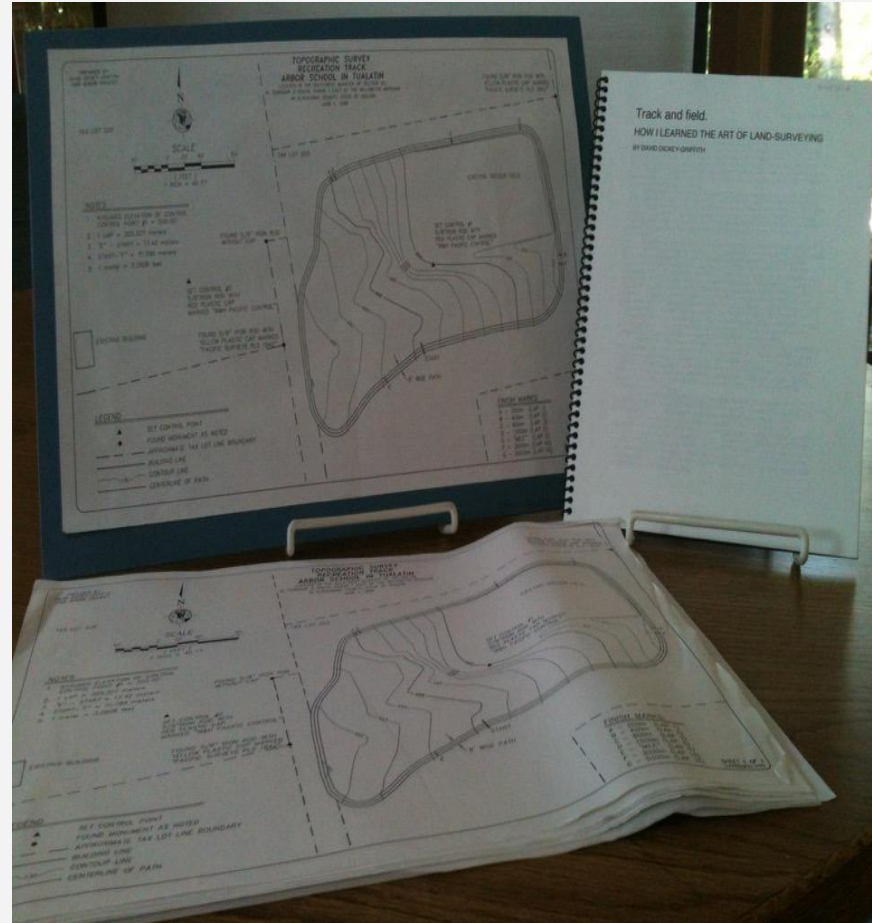
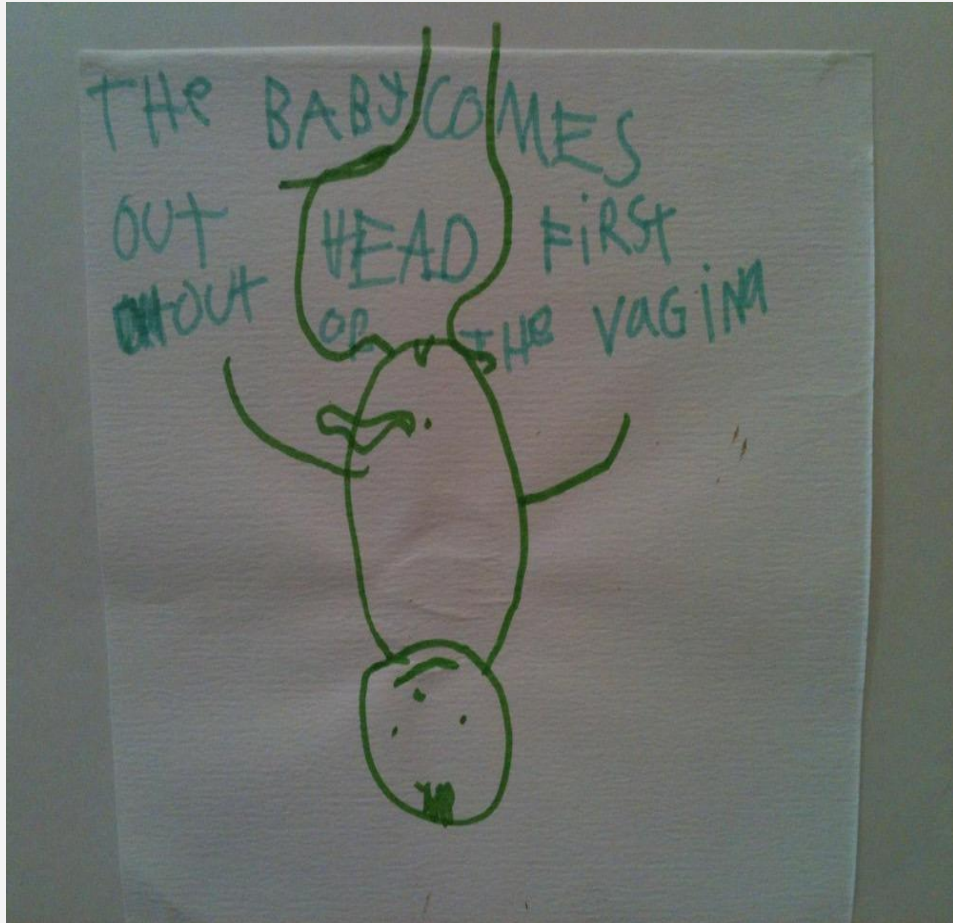
Planning the Next Trip

Making Course Corrections



Independent Project Deliverables

- Research Paper or Other Writing
- Learning Object
- Presentation

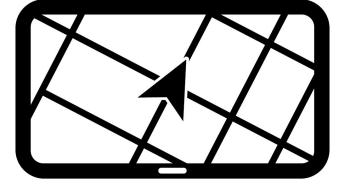


TUNE THE CAR...

- Grab a teaching partner
- Build excitement & anticipation
- Develop a culture of curiosity



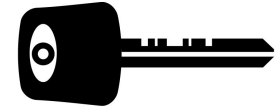
EXPLORE ROUTES...



- Explore & share travels
- Write Logs/journals/blogs
- Examine former student work
- Write proposals (& essential/guiding questions)
- Peer & teacher review

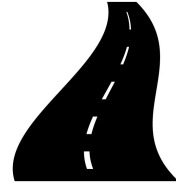


START THE ENGINE...



- Create timeline
- Establish cohorts
- Strategize
- Begin research
- Draft rubrics

HIT THE ROAD...

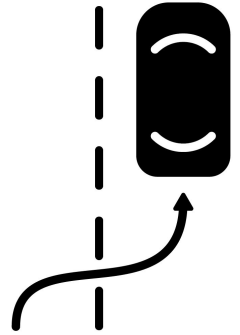


- Research topic using info texts
- Evaluate sources
- Focus inquiry
- Field trips, mentors
- Revisit rubrics
- Conduct check-ins & mini-lessons
- Hold open critiques/Craftsmanship



MAKE COURSE CORRECTIONS...

➤ REFLECTION & REVISION



ASSESS THE ROAD TRIP...

Flipgrid



YPAR Weekly Reflections

Active ▾

Share Grid

Grid Actions ▾



44 Topics [+ New Topic](#)

115 videos 842 views 33.2h engagement

Export Data

Pin	Topic Name	Flip Code	Display Date ↓	Engagement	Activity
	Ideas 2 videos 48 views			54 min	Active ▾ Actions
	Natalya 0 videos 0 views	eb7f8cf3	Feb 18, 2019	-	Active ▾ Share Actions
	Samantha 7 videos 103 views	3864bda0	Jan 23, 2019	10 hrs	Active ▾ Share Actions
	Sage 3 videos 17 views	e841fee8	Jan 18, 2019	24 min	Active ▾ Share Actions

Blogging 3/1



1

 Tobias K.
Mar 1, 2021, 1:54pm
[@ Class Members](#)

CHESS!!!



4

 Cody W.
Mar 1, 2021, 1:40pm
[@ Class Members](#)

March, Meetings, and Dr. Murray: ...



7

 Sofia Baldivieso
Mar 1, 2021, 10:45am
[@ Class Members](#)

Happy International ...



4

 Evie C.
Mar 8, 2021, 2:20pm
[@ Class Members](#)

A Box



2

 Henry Anderso...
Mar 8, 2021, 2:05pm
[@ Class Members](#)

croc 4, a croc's End



2

 Harry M.
Mar 8, 2021, 1:59pm
[@ Class Members](#)

Two Drawings Away from ...



4

 Lauren T.
Mar 1, 2021, 10:40am
[@ Class Members](#)

March!



7

 Evie C.
Mar 1, 2021, 10:32am
[@ Class Members](#)

Yet Another progress update



3

 Gus
Feb 27, 2021, 5:21pm
[@ Class Members](#)

Twentyfourth Blog Post



2

 Margaret
Mar 8, 2021, 1:57pm
[@ Class Members](#)

some drawings i have done



2

 Harry M.
Mar 8, 2021, 1:56pm
[@ Class Members](#)

Senior Project Blog Post (3.8.2021)



3

 Madison A.
Mar 8, 2021, 1:43pm
[@ Class Members](#)

My Mentor is Giving Me ...

blogging

Real titles are overrated

i made a mochi cake

update

To quote Winnie the Pooh, "oh ...

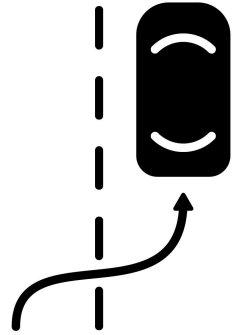
PUT IN THE MILES...



- Writing Workshop
 - Engaging in Peer Feedback
 - Revising
 - Mini-conferences with Teachers
 - More Revising

MAKE COURSE CORRECTIONS...

➤ REFLECTION & REVISION



PREP FOR THE CAR SHOW...

- Creating an Learning Artefact
- Considering Audience, Q & A
- Practicing Sharing
- Engaging in Peer Feedback
- Mini-conferencing w/ Teachers
- **Revising presenatation**





SHARE THE MEMORIES...

- Gallery Walk
- Showcase & Spotlight
- Classroom/School Presentations
- Digital Sharing
- Other Special Event



The Results of BUSines!

Books for the library

- My Rows and Piles of Coins
- The Encyclopedia of Weather and Climate Change
- Over the River: An Aerial View of Oregon
- The Elements: A Visual Explanation of Every Known Atom in the Universe
- Science in medieval Islam
- Chronicles of Islamic Architecture
book set of 7
- Night of the Moon - Muslim Holiday Story





LUCAS & PHILLIPPE PETIT



ASSESS THE ROAD TRIP...



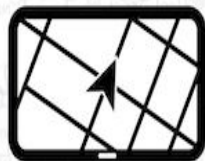
- Reflecting
 - Journals
 - Cohort Sharing
 - Conferencing with Teacher
- Summative Assessment
 - Descriptive
 - Collaborative

PLAN FOR THE NEXT ONE..



- Reflecting
 - Journals
 - Cohort Sharing
 - Conferencing with Teacher

Road Trip



Exploring Routes



Tuning the Car



Starting the Engine



Putting in the Miles



Hitting the Road



Prepping for the Car Show



Sharing the Memories



Assessing the Trip

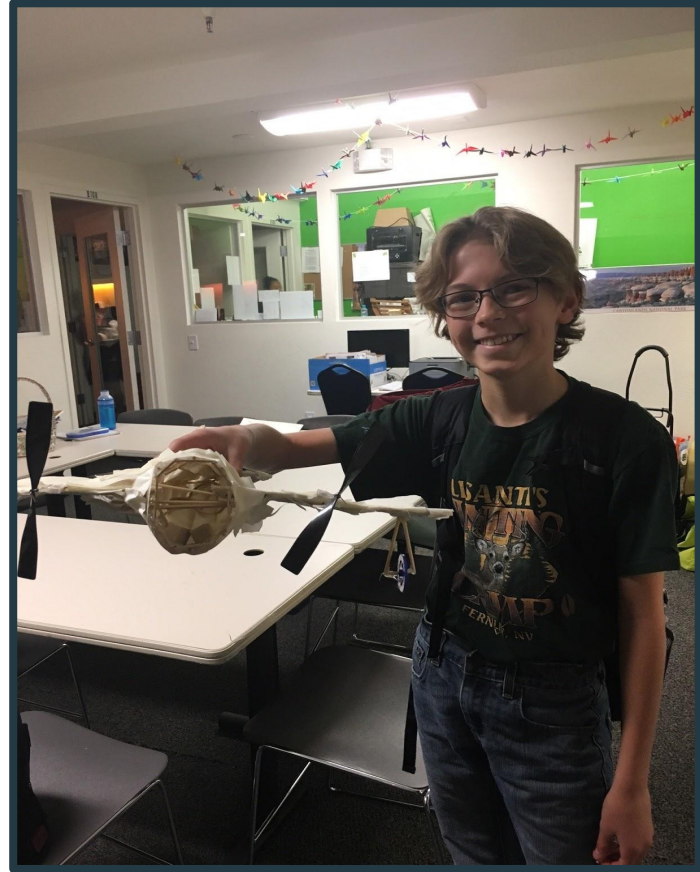


Planning the Next Trip

Making Course Corrections

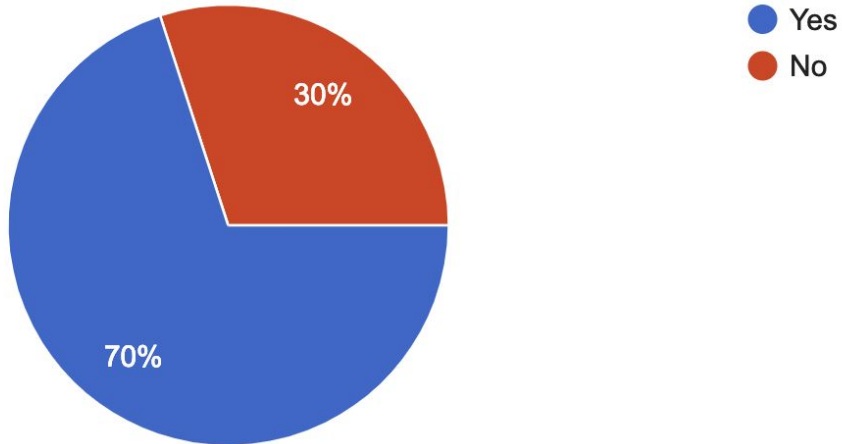
Flexible Framework

- exploring
- background knowledge development
- immersing & curating
- **reflecting**
- reading, viewing, listening
- writing
- questioning, discussing, wondering,
- **reflecting**
- more writing
- **reflecting**
- exploring multiple perspectives
- more writing
- creating
- sharing
- **reflecting**
- revising, writing, creating
- presenting
- **more reflecting**



Follow-up Survey of Past Students

“Are you involved in any school work, professional work, or personal projects or hobbies connected to your past Independent Projects?”



Former Students Share...

Nothing directly related to my independent projects, but I still love cooking, baking, and science. I remain captivated by studying climate change and the environment, as well as understanding ecology. I still feel curiosity about most of the topics I studied at Arbor.

Although I don't work in the music industry, I would say that nearly everything I've done professionally has been connected to the skills needed for this project, from directing a theater show as my final thesis in college, to managing and educating groups of students. Additionally, this project was the first time I finished a long term creative project, which can be hard for me as a procrastinator, and that experience was highly valuable.

I am currently majoring in physics at Carleton College, and I would definitely say that my interest in the subject can be traced back to my independent project in the intermediates where I studied the Apollo Program and the history of manned spaceflight.

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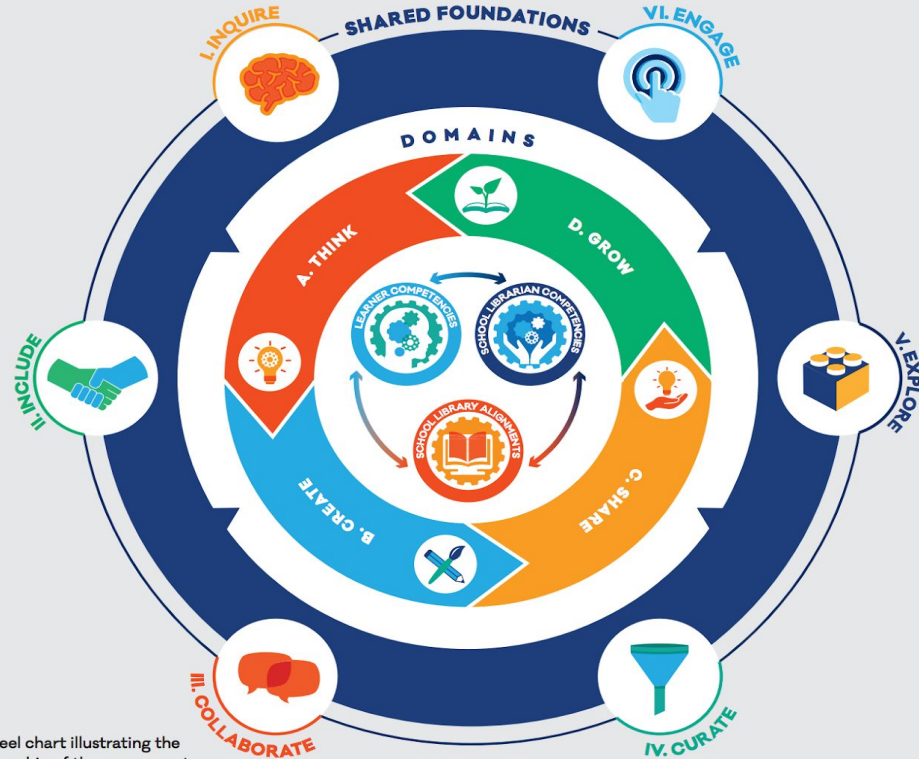
Former Student Shares...



(flicker.com)

I am not professionally related to the content of my projects but I strongly believe that the skills I began learning in those projects has set me up for my career as a circus performer, producer and educator. The independent projects opened the door to my development of perseverance, a methodical approach to long term planning and time management skills. Most of all, the projects gave me the opportunity to experience the joy of seeing the arc of completion from an idea in my head to it's tangible realization. In 2017 I graduated from the New England Center for Circus Art's professional training program. For my final year project I interviewed other women with mental health disorders, created a sound collage out of those interviews and choreographed an aerial rope act to it that I performed in our graduation show. Because of my experience with long term independent projects I found this process much more comfortable than some of my peers. I am currently producing and performing in a new show with Open Ring Circus that will tour the east coast this summer and fall.

National School Library Standards Connections



A wheel chart illustrating the relationship of the components within the AASL Standards framework structure.

Where do you see opportunity for the Independent Project in your school, library, institution?



OR

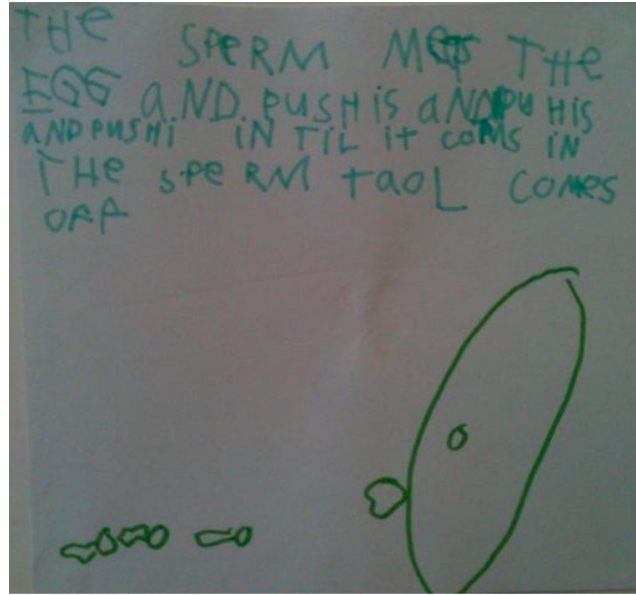
<https://tinyurl.com/76e2fkak>

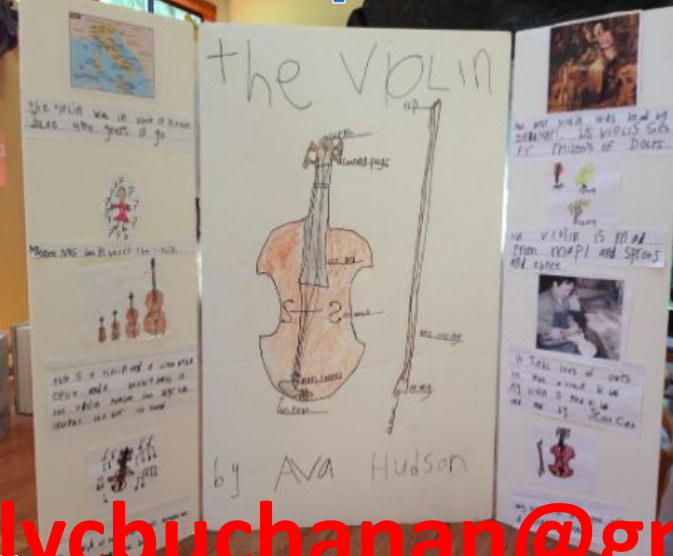


“Education is not preparation for life; education is life itself.” - John Dewey

“You don't learn to play baseball by a year of batting practice.” -David Perkins Making Learning Whole

Q & A





shellycbuchanan@gmail.com

