Think Make Create Labs in Idaho



Challenges to STEM Education

The following reasons were the same if STEM was offered in afterschool programs or not:

- ✓ Do not have **funding** for STEM curriculum
- ✓ Do not have qualified staff
- ✓ Do not have time for a STEM program
- ✓ Do not know of an appropriate STEM curriculum

Idaho Out-of-School Network

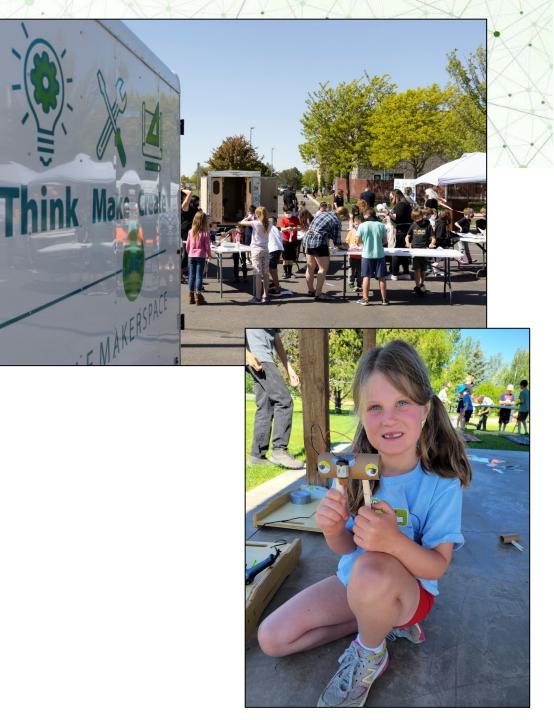
Idaho Out-of-School Network Survey, June 2018

Jocelyn Cullers, Boise State University Institute for STEM & Diversity Initiatives

Why TMC?

Our goal is to assure equitable access to STEM education to communities across Idaho.

- Increase access to hands-on STEM education for rural and underserved youth.
- Provide professional development for inexperienced formal and informal educators.
- Engage and gain support from rural and underserved communities for STEM learning and workforce development.



Idaho's TMC Leadership Team



Anna Almerico Program Director

Wendy Wilson STEM & Communications Coordinator

Amy Post TMC Labs Coordinator IDAHO EUSYSTEM

Erica Compton Director



Francesca Bessey Program Director



Caty Solace Executive Director

University of Idaho Extension

Claire Sponseller Area Extension Educator, 4-H STEM





Andrea Baerwald Science & ISAS Coordinator

PROJECT FUNDERS





TMC in Idaho

- TMC Leadership Team launched the first 16 labs in May 2021.
- Added 9 more in 2022
- 28 TMC Labs are on the road in 2024
- Adding "unhitched sites" and near-peermentor program in 2024
- More than 45,000 youth have used the labs so far.

TMC Lab Locations

- 1. UI Extension 4-H Youth Development
- 2. UI Extension in Bingham County
- 3. Boys & Girls Clubs of Magic Valley
- 4. Treasure Valley Family YMCA
- 5. Nampa School District
- 6. Boys & Girls Club of Western Treasure Valley
- 7. Childrens Museum of the Magic Valley
- 8. UI Extension in Schitsu'umsh Reservation
- 9. Boys & Girls Clubs of Lewis-Clark Valley
- 10. UI Extension in Nez Perce Reservation
- 11. Gizmo
- 12. UI Extension in Lemhi County
- 13. East Bonner County Library District

- 14. Gooding Public Library
- 15. UI Extension in Boundary County
- 16. UI Extension in Bear Lake County
- 17. Boys & Girls Club of Ada County
- 18. Boys & Girls Club Ada County
- 19. Boys & Girls Clubs of Magic Valley
- 20. Pinehurst After School Solutions
- 21. United Way of Idaho Falls and Bonneville County
- 22. Boys & Girls Club of the Shoshone-Bannock Tribes
- 23. United Way of Southeastern Idaho
- 24. One Stone
- 25. Mountain View School District
- 26. Treasure Valley Family YMCA
- 27. Boys and Girls Club of Canyon County
- 28. Parma Learning Center





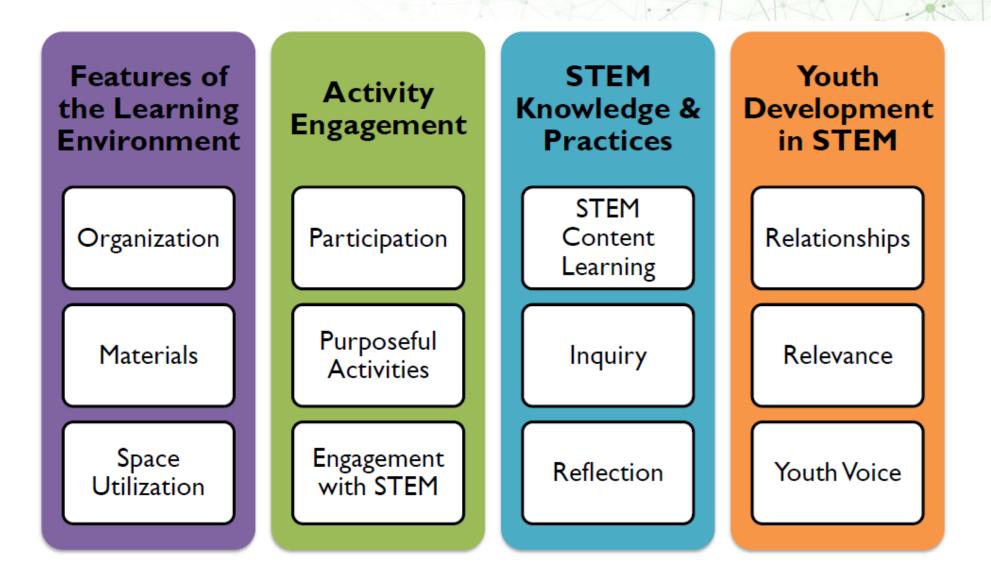


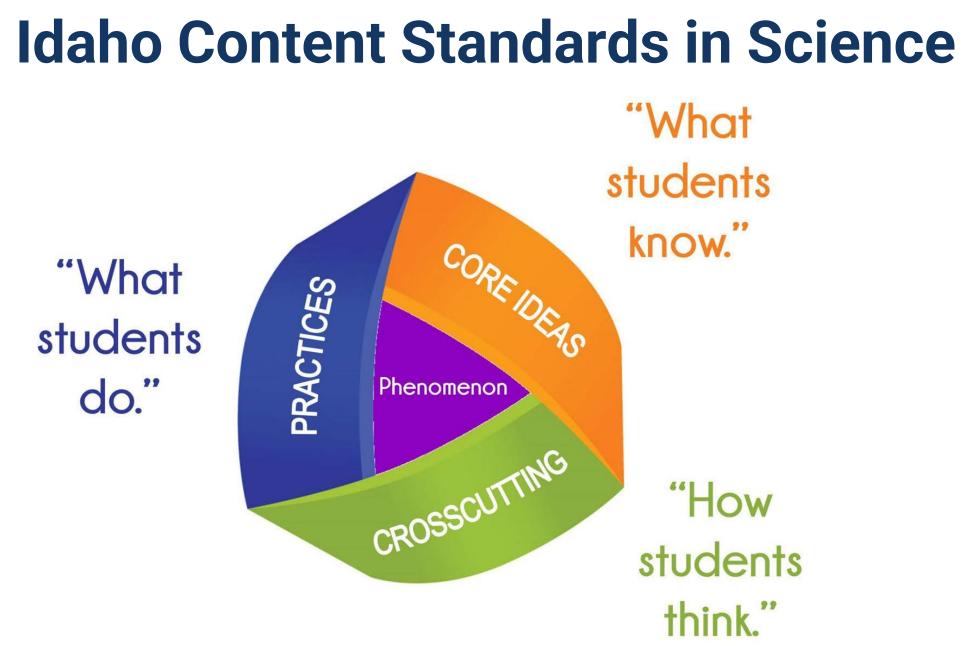
TMC User Engagement





Dimensions of Success





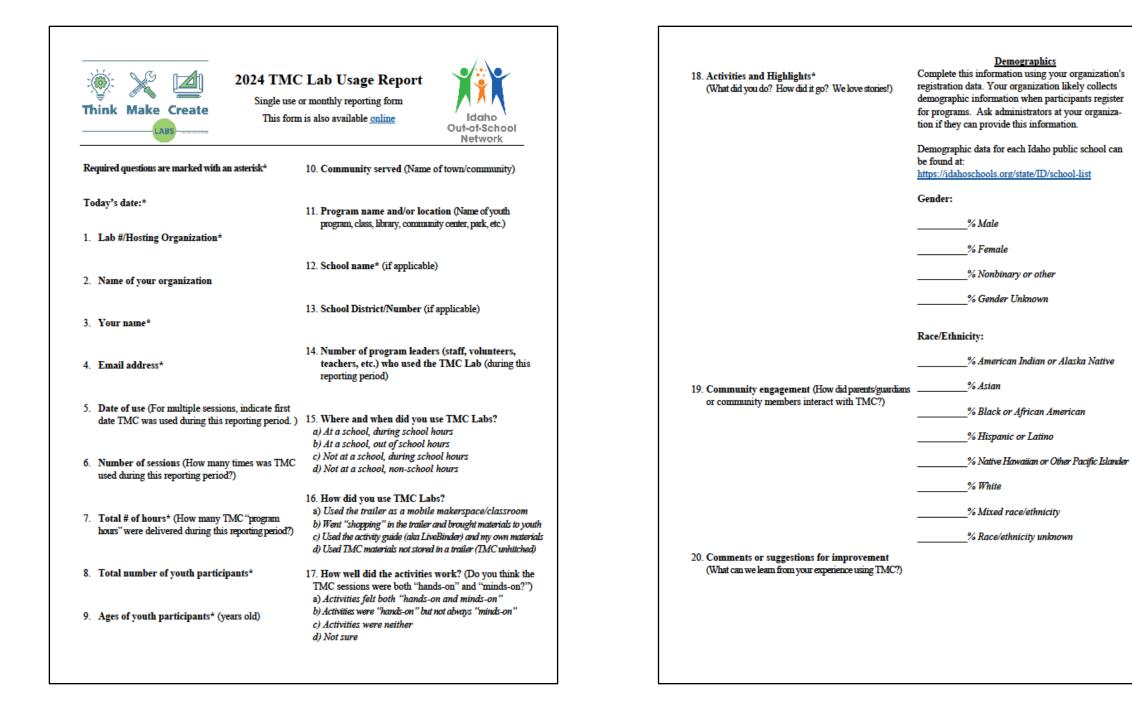


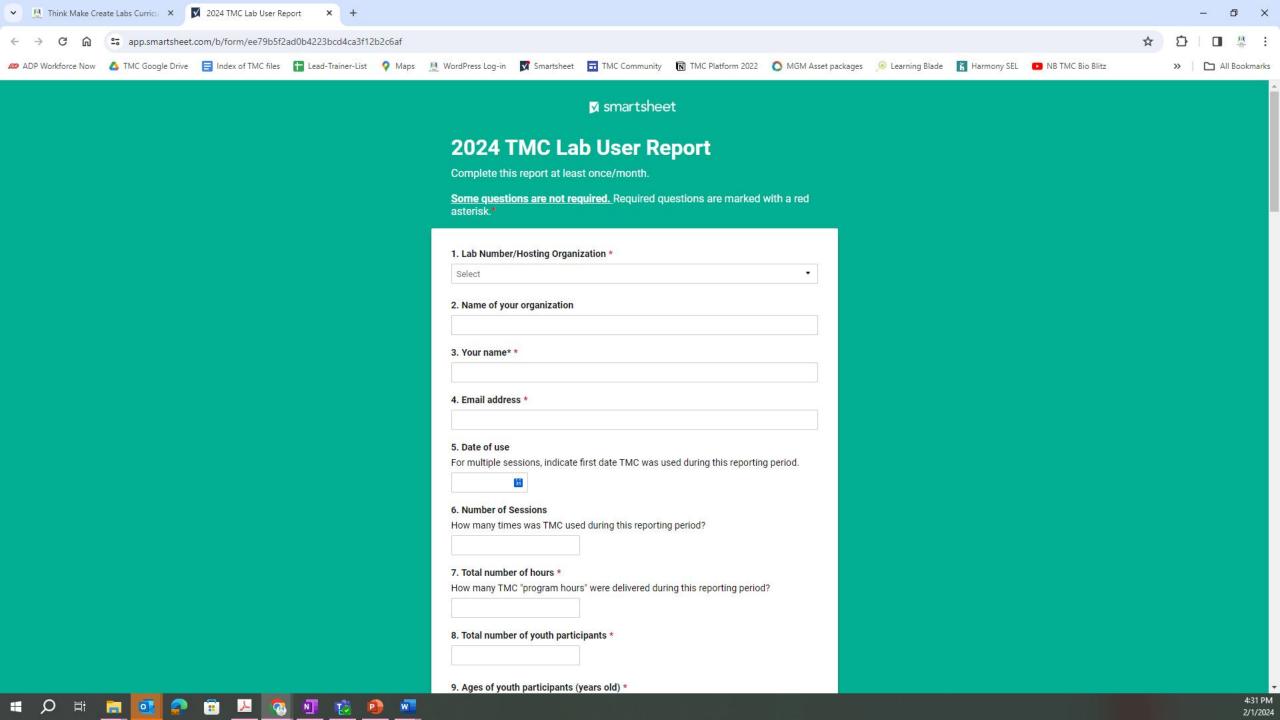


Using a TMC Lab

- 1) Choose and plan your activities
- 2) Coordinate with lab host:
 - ✓ Schedule (include prep time)
 ✓ Materials and restocking
 ✓ Borrow materials or the Lab
 ✓ Return equipment
- 3) Do your user report







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TMC Stocking List (2023)	Increased qua	anitity of item	ns are highlighted yellow											
2 Supplies	Count per lab	Unit	Amazon Link	Stocking Location (Labs 1-25)	Stocking Location (Labs 26-28)	Notes								
3 AA Battery Holder	192	pieces	https://a.co/d/8nlwqdj	R	М	Need 250 to complete all activities. These can be reused.								
4 Aluminum Foil, 100+ sq. ft.	2	rolls	https://a.co/d/9jtY0bL	R	М									
5 Aprons	2	pieces		F (Operations Bag)	V (Operations Bag)									
6 Bags, brown paper, 4 lb.	125	pieces	https://a.co/d/4zRK7VH	Q (Manipulative Shelf)	Manipulative Shelf (Q)	Previously	stocked 250, reduced qu	antity to save space.						
7 Bags, trash, drawstring, 30 gallon	50	pieces	https://a.co/d/bRX3O6y	T (Milk Crate)	R (Trailer Box)		Moved from Box R or S	to Box R						
8 Bags, trash, small, 4 gal, various colors	150	pieces	https://a.co/d/artLnC3	E	E									
g Bags, Ziplock, 1 gal	300	pieces	https://a.co/d/6tPaEBw	F (Operations Bag)	V (Operations Bag)	For storing	smaller pieces in boxes	. New item for 2023.						
10 Bags, Ziplock, 2 gal	45	pieces	https://a.co/d/dvbECXw	F (Operations Bag)	V (Operations Bag)	For storing	smaller pieces in boxes	. New item for 2023.						
11 Balloon Pump	2	pieces	https://a.co/d/9tsajGe	С	С									
12 Balloons, 12 inch, assorted color	450	pieces	https://a.co/d/cEyXUAK	С	С	Previously stocked 150	, wasn't enough for all ac	tivities. Recommend la	tex baloons fro	om Zurchers	for helium-f	lled balloons		
13 Balls, ping pong	100	pieces	https://a.co/d/5fNxwPw	J	F		New item for 202	3						
14 Balls, Tennis	3	pieces	https://a.co/d/7OmEbtb	J	F		New item for 202	3						
15 Battery Connector for 9V battery	60	pieces	https://a.co/d/8OFFwQ6	G (Gear Box)	N (Gear Box)									
16 Battery, 3V Coin Cell	300	pieces	https://a.co/d/73RtiGX	R	М									
17 Battery, 9V	48	pieces	https://a.co/d/4HOLDmw	R	М									
18 Battery, AA	750	pieces	https://a.co/d/979paar	R	Μ									
19 Battery, LR44 Button/Coin Cell	300	pieces	https://a.co/d/2AED1dy	R	Μ									
20 Beads, 6x6 mm letter beads	1440	pieces	https://a.co/d/adYwt3m	В	В									
21 Beads, 9mm pony beads	4600	pieces	https://a.co/d/jhlDeT3	В	В									
22 Binder clips, large	432	pieces	https://a.co/d/02eQ5bV	I (Milk Crate)	P (milk crate)	Previous	y stocked 48, wasn't enou	ugh for all activities.						
23 Binder clips, small	300	pieces	https://a.co/d/cBLdNVA	I (Milk Crate)	P (milk crate)	Previously	stocked 200, wasn't eno	ugh for all activities.						
24 Bolts, machine screws, #6-32x1"	550	pieces	https://www.boltdepot.com/	R	Μ	Phillips pan	head, stainless steel 18-	8. New item for 2023						
25 Book bag	1	pieces	https://a.co/d/9kHI4Mt	Varies	Varies									
26 Book, Ada Twist, Scientist	1	pieces	https://a.co/d/ghM6BjR		Book Bag		New item for 202	3						
27 Book, Goldilocks and the Three Engineers	1	pieces	https://a.co/d/hHeuhpm		Book Bag		New item for 202	3						
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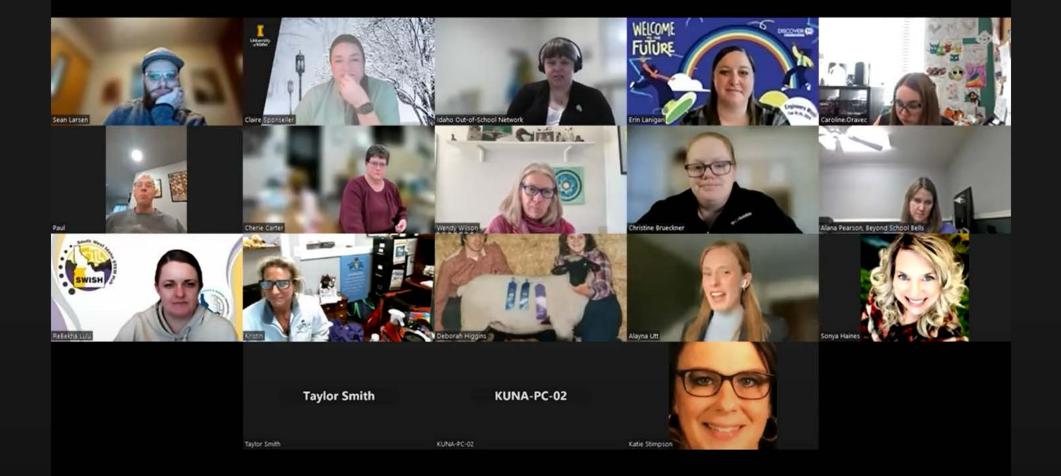
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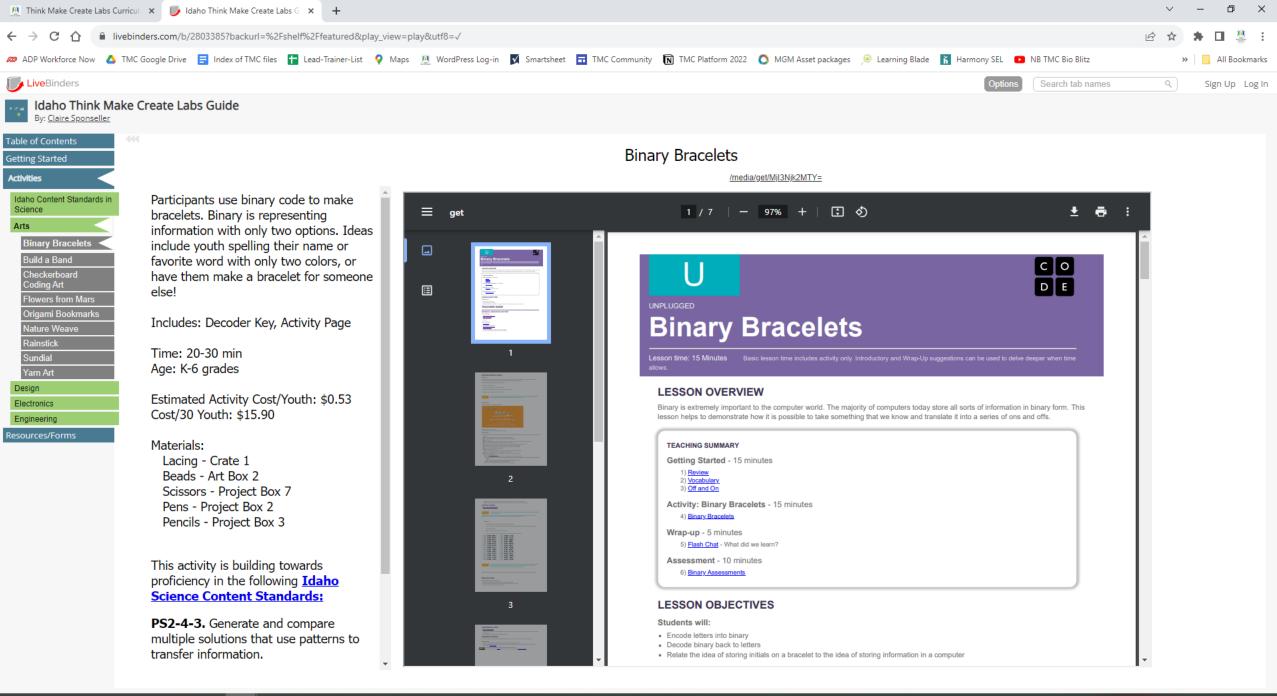
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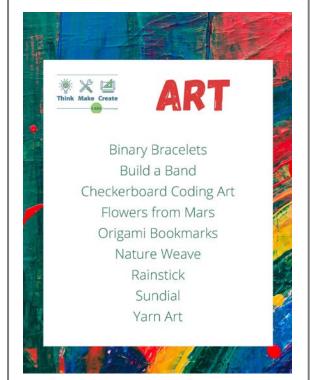


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Copper Tape Flashlight Make a Plane Make a Mini Electric Car Junkbot Robots My New Ride Make a Paper Circuit Paper Circuits Penny Battery Pipe Cleaner Circuitry Scribbling Machines Star Wars Junkbots Vibrobots





https://idahooutofschool.org/think-make-create-labs-land/