

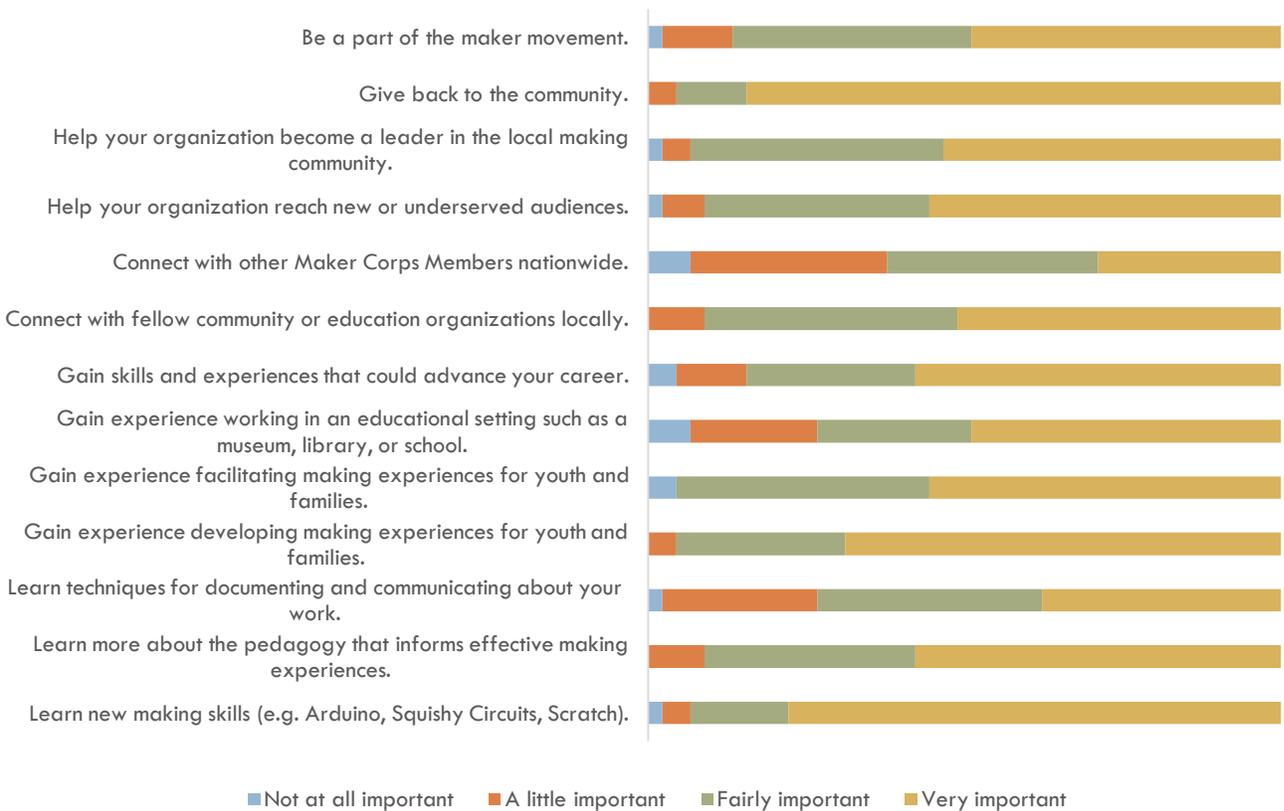
Maker Corps

2016 EVALUATION REPORT

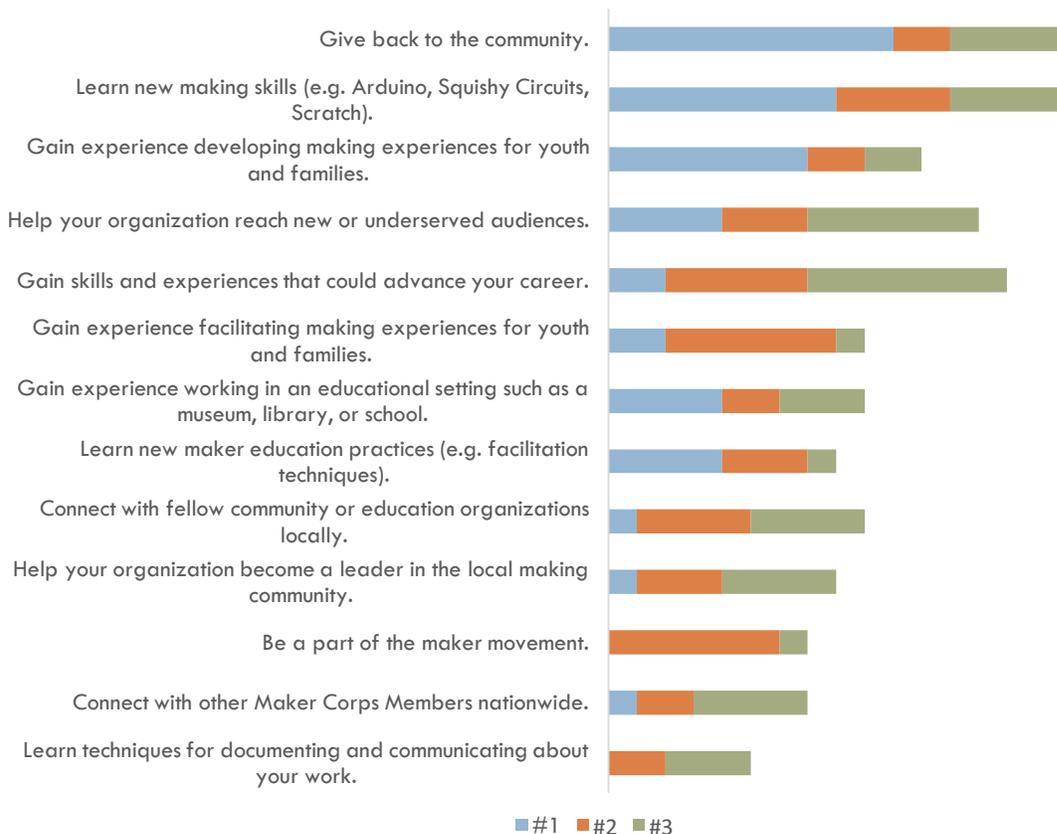
MAKER CORPS MEMBERS

INITIAL SURVEY RESULTS (N=50)

Individuals become a Maker Corps Member for different reasons. Below are some personal and professional goals that you might have for your experience. How important is each of these goals to you?



Considering these options, what are you three highest priority goals for the Maker Corps program?



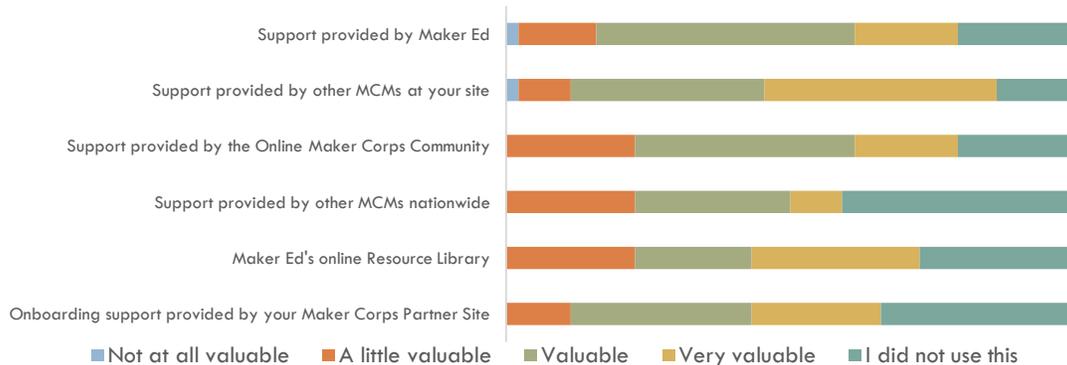
Do you have other goals for participating in Maker Corps not listed here that are important to you? What are they?

- Build off of last year's Maker Space to maximize our knowledge of curriculum so that we can offer an increasingly better program.
- Enhance our youth maker program to train our volunteers to be key components in facilitating making help and skill development.
- Finding another way to be considered an educator.
- Gain confidence in my ability to make useful things.
- Give children and adults confidence in their ability to make something.
- I also wanted to add "give back to the community."
- I feel as though I am only a "maker" when school is in session since my makerspace is housed in our school library. By being a Maker Corps member, I get to participate in Maker Ed throughout the summer.
- I plan on pursuing art therapy, so working with the community is very helpful towards my future plans. I want to learn how to inspire and create within the community.
- I want to contribute my skills to the maker movement.

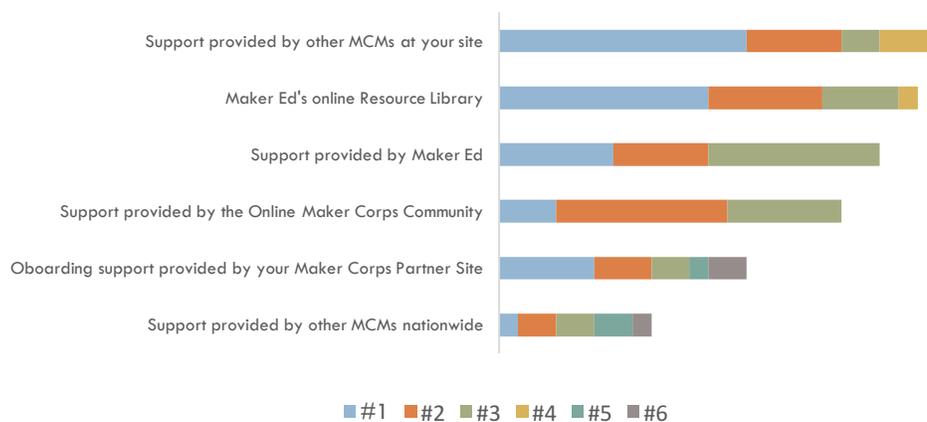
- Make an experience that connects to at least one person and inspires them to make something as a result.
- No.
- None.
- Provide practical skills that enhance theoretical skills learned in classrooms.
- Put my huge store of resources to some use. (Sadly making as a movement is being taken over by people trying to sell stuff. More waste, more consumption. 'What I need to do making'. What you need is an outlook and an attitude of a person that wants to do and build. Like any skill it takes hard work to get good at.
- To expand and share a passion for making with a wider audience.
- To inspire others to become Maker Corps members - further the Maker Movement.

Training

Maker Ed is committed to helping each member feel supported in participating in Maker Corps. Which of these trainings or resources have you found to be valuable so far?

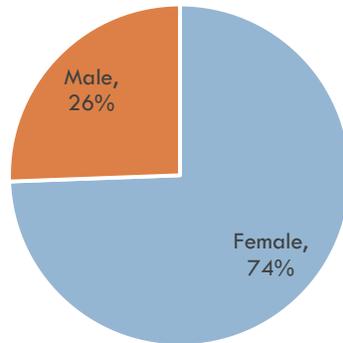


Think back to your experience prior to starting at your Maker Corps site. What have been the most valuable sources of support?

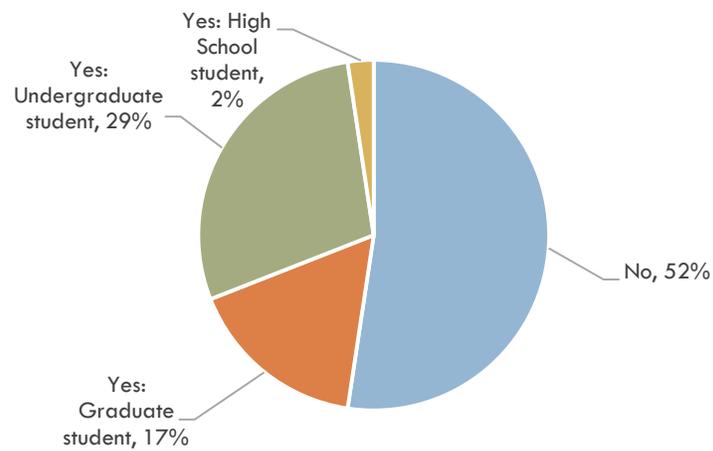


Demographics

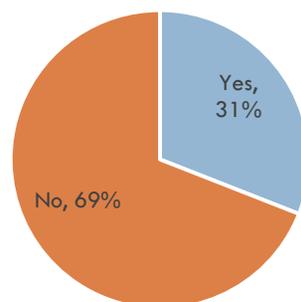
What is your gender?



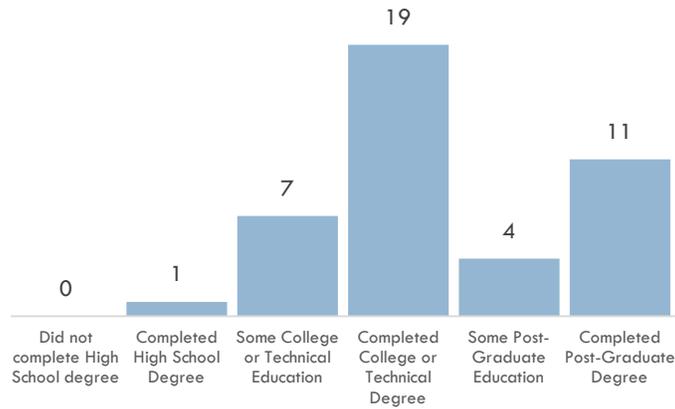
Were you a student in spring of 2016?



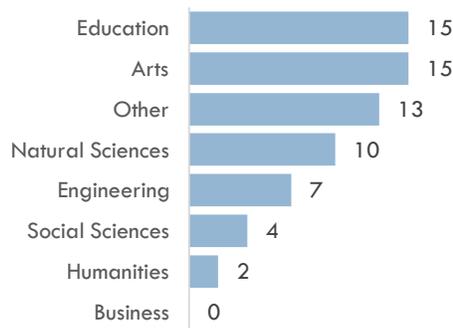
Are you a (Pre-K through 12) teacher or in training to become a teacher?



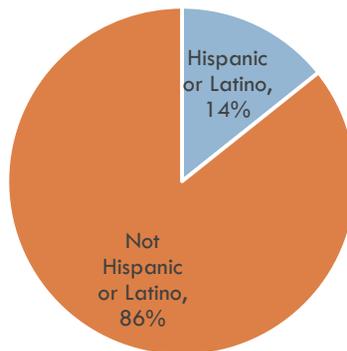
What is the highest level of education you have received?



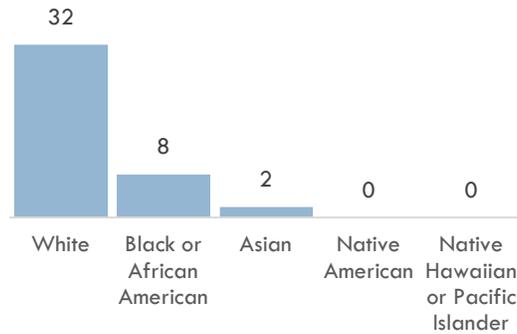
What is your academic background or Field of study? (You can select more than one option)



What is your ethnicity?



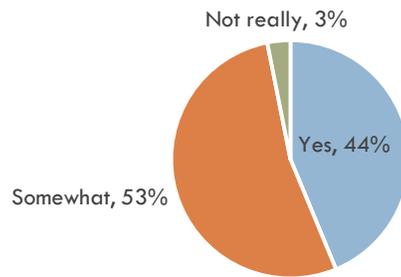
What is your race? Check all that apply.



FINAL SURVEY RESULTS (N=32)

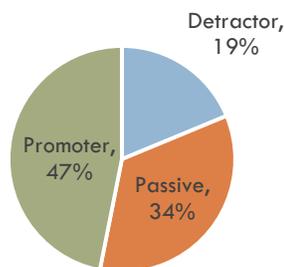
Your Maker Corps Experience

Maker Ed supports the community of Maker Corps sites in a number of ways. In general, have you felt a part of the Maker Corps community this summer?

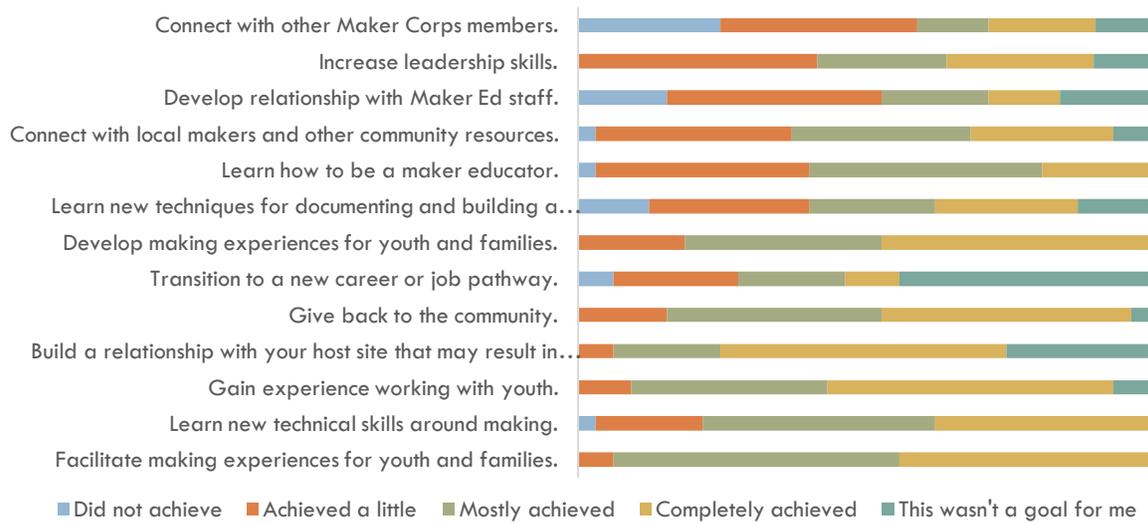


A friend asks you about the Maker Corps program. How likely are you to recommend Maker Corps to this friend? (Net promoter score is calculated by subtracting the Detractors from the Promoters.)

Net Promoter Score = 28



Do you think you were able to achieve or not achieve the following goals during Maker Corps?

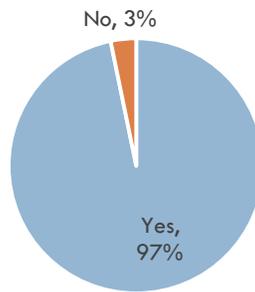


Did you achieve anything else as a Maker Corps member that was important to you?

- An insight into my own practice in relation to other practices.
- Break some preconceived notions I had about myself as an educator.
- Confirmed that I'm on the right track for my college major.
- Deepened my understanding of Maker Education and can now articulate it to others more effectively. Took time to document. Now I am hooked on documenting. I love [to] look at our journey.
- Developing and prototyping workshops.
- I think you covered it. I loved the Google Hangouts with other host sites outside of California.
- I was able to begin a new body of work.
- I was about to obtain a permanent part-time position, which was very important to me. Allowing me to focus more on my independent design studio.
- I was able to view the wide variety of project and programming initiatives that other maker corps sites were implementing this summer.
- I was encouraged to keep at developing my skill sets and go for it. My host site was amazing at encouraging me every step of the way so I felt very confident as well as had just the right amount of support to excel.
- Increased my knowledge of several maker projects and ways to work with teens. Had a great time making!
- Learning how to use software such as Adobe Photoshop and Illustrator proved to be very instrumental during my time as a Maker Corps educator.
- Really building a sense of community and making at all of the local libraries we traveled to this summer was instrumental for me.
- Received great feedback from participants as to what they were looking for during the summer and tried to respond appropriately.

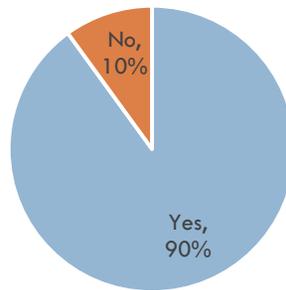
Community and Communication

Were you aware of the online Maker Corps Community Discussion Forum?

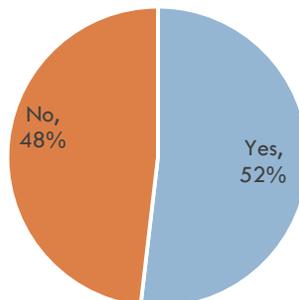


How did you use the Online Community?

Read posts, comments or resources



Post to the forums, topics, or blogs



In what ways was the online community helpful to you? (Select all that apply)



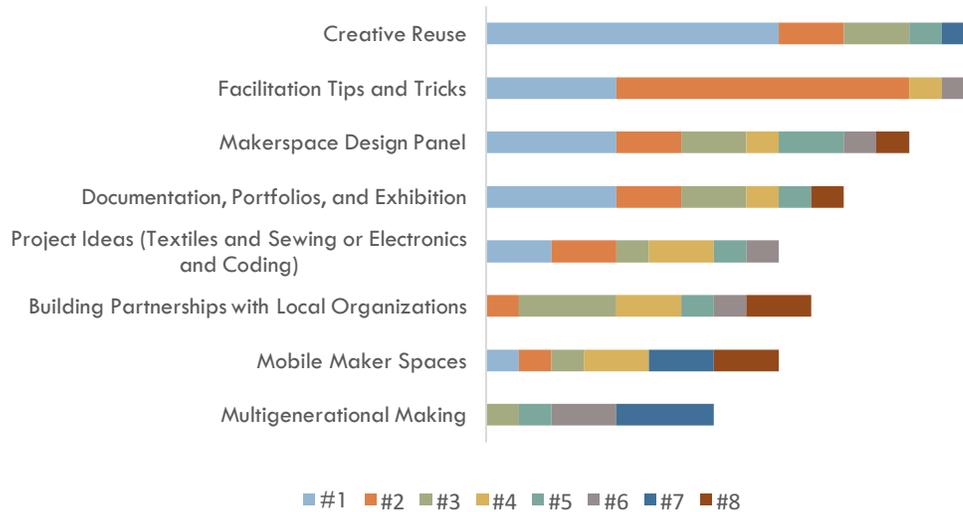
Do you have additional suggestions to make the Online Community more useful for future Maker Corps Members?

- A place to share lesson plans. Some teachers are not sure where to start, what materials to offer, or what could be a potential project.
- Attach it to my email so I know when something is going on or someone has posted on my site.
- Being able to search the forum for other participants with similar project interests. For example, being able to find members using motors in their projects or using recycled plastics etc. etc.
- I wasn't aware of the online community until midway through my experience, so I feel a bit disconnected from the community. I also think I've started later than most, and am maybe finishing later than most (I still have a month left), so I'm not sure I am totally synced up with others.
- Maybe have a shared resource library where people can upload documents and post links. That way you don't have to dig through conversations if you're just looking for a resource.
- More live sessions should be organized.
- No I believe that the Online Community was a very effective tool to share resources, ask questions, and collaborate with others.
- Nope.
- Periodic reminders to visit. I got so busy that I would forget about it.
- While I am happy the online live chats were recorded, I wish I would have been able to attend one! My schedule didn't allow for it!

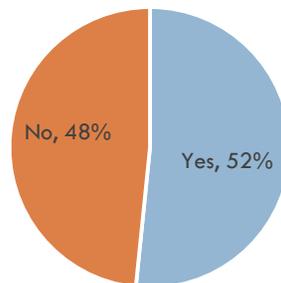
What kept you from using the Online Community this summer?

- Doing all the Maker Corps stuff. It was busy!
- My Host Site provided a helpful community and had resources readily available for me.
- Time.

Please select the summer sessions you attended or viewed in order of how useful they were to you.



Did you take advantage of the CEU certificate available through Sonoma State University?



Why were you interested in the CEU certificate?

- Career building.
- I am in a credential program to become a teacher. When I do, I would like to bring making to my school.
- I love learning and documenting what I have done.
- I thought it could give me and my organization credibility.
- I thought that it'd be good to have since I don't have a credential in Engineering nor Design.
- I was interested in the CEU certificate for the certification of being a Maker Corps educator.
- It is an addition to my portfolio.
- It seemed useful to have a credential.
- It was an added perk.

- Learning what other makers are doing in the work environment.
- Maker Education is an area I want to major in and I desire to be a lifelong mentor on Creativity, Innovation and Making. Hence, the CEU certification offers me the opportunity to fully understand the principles and practices of the Maker Movement and develop an action plan for implementation.
- My venue pushed it as something of use to me. It proved very helpful in terms of creating an action plan for one aspect of the site.
- Seemed like a good idea to get credit for things I was already doing.
- So I could keep professional record of the time I spent with Maker Corp.
- The Maker Certificate will come in handy as I look for education jobs!
- To further my knowledge of maker education.

Why weren't you interested in the CEU certificate?

- Because I just graduated with my Master's of Fine Arts and did not need the credits. I do think it's great they are offered though.
- Cost.
- Did not know.
- Did not need certification.
- Didn't see any long term benefit.
- Didn't think I qualified - Not a college or graduate student.
- Don't need it.
- Don't need it. I already have two Master degrees!
- I am busy pursuing a Masters for Art Therapy.
- I didn't hear about when I first started and I didn't have a very long time to work and build a portfolio.
- I would have been but I joined Maker Corps late and it was a bit of a whirlwind.
- I wouldn't have time to put together the portfolio.
- Not enough bandwidth with other jobs.
- Was not aware of it.

Maker Corps Impact

Think about a time during the summer that you felt you had an impact on the youth or families you were working with. What were you doing? What about that interaction made you feel like you had an impact?

- A child in our summer camp was building a traffic light using the arduino kit. He was able to program the board to work but could not build a case to cover the arduino board and make it look more like a traffic light. So I showed him how to make a cardboard box and how to put in the arduino and we both made the traffic light. After that he was able to join a team that built a robot using cardboard and arduino kits. I felt I made an impact because he was not able to make the box, he had given up but I was able to show and guide him too and after which he had the boldness and skill he needs to create make anything he wants.

- A kid named Michael who is participating in our summer Maker camp excitedly showed me his first mobile app he developed in class; a Hello app. He went on to talk about his plans for his future apps and games when he is through with the camp. The overwhelming joy and excitement he expressed made me feel I had an impact.
- At one of the camps I worked, there was a younger girl (4th grade) in a space with nearly 11 boys. Supporting her through the making process and advocating for her efforts and ideas to be seen as valid was important. By the end of the week, she demonstrated increased active participation and was taking on mini-projects of her own.
- At our maker space, in a children's museum, we have open hours twice a week for general museum guests. It is always a feel good moment to have a kid come in to our makerspace, shy, scared to touch anything, and leave excited chattering about what they want to do next time they visit our space.
- At the close of our 'week of making' the young people expressed their appreciation and their wish to come back for more making.
- Because I am a librarian first, my favorite interactions are when I can get kids to borrow library books in their area of interest. Being able to suggest something is the best.
- Creativity Festival: The museum was free that day. Also, we had outdoor booths. Our booth featured paper circuits. Children and families from all walks of life were able to use these materials. It turned out to be great fun and exciting to see how each child reacted when their LED lit up.
- During all of children's making events.
- I felt I had the most impact while teaching VectorFab because I knew the course content really well.
- I had one family that was really active in the sessions, both the mother, and children. She was homeschooling her children and I was able to share ideas and resources with her.
- I think I had the most impact with families and children when I got to know them as people alongside as Makers. Knowing their names and encouraging them on their specific projects allowed them to feel more at ease. Some of the children would come back another day to do another project or wanted to know when I would be working again. They then had a personal connection with the space!
- I think the most impactful moments I had in my Maker Corps experience had to do with exposing kids to different types of technology for the first time. Probably the single most impactful was leading kids in developing a game on scratch. Exposing kids to technology via different resources, such as little bits, sphere, finch robots, cubelets etc. seemed to be my organization's forte. Which makes sense because a library has always been about providing access to resources. I think developing the scratch games exposed kids to a different side of technology, allowed for a high level of creativity/personalization, and taught them some really valuable skills.
- I was making hydraulic machines with students and their parents from underserved communities. To have to students work and collaborate with their PARENTS was awesome. I always love seeing kids and parents work together to engineer, tinker, design. I felt like I had a positive impact by allowing parents and kids to explore their own interests. The parents were surprised that I did not give them direction or instructions, other than how to use the water syringes. By them saying, "but what am I allowed to make?" and from me explaining "anything you want", this immediately sparked interest and excitement amongst the groups!

- I've been a teacher for a while so my goal was more to become skilled in maker education, but I did also continue to have an impact on children which was nice. Our program serves under-served children in Pittsburgh and works to find a way to create an accessible platform for these students to get STEAM education. It's very popular here and the neighborhood kids love the programs. Most of them are free!
- In our sock monster making program I taught a group of 4 elementary school boys with zero sewing experience how to sew. They were engaged for over an hour and really excited! Their moms had a blast too and made sock monsters as well. The moms were surprised their boys were engaged for so long.
- It was great when a youth visited the library with a friend and we showed them that the library had so much to offer and got them to join in with our projects.
- Manning a maker space where families can create together. I saw lots of discussions and interactions which I feel is a bit part of making. Talking through ideas, processes and then being proud of what you've created.
- Open making hours were great! I had some students from the prior year come as well as a mom with her children and some friends. They acclimated to the non-structure of open making hours well and wished that I had thought to gear those days more toward families. There's always a next year!
- Taught many maker camps. Taught them the values of creating from scratch and not to just download a file from the internet. Got them interested in Industrial Design, showed my projects and my personal design process.
- Teaching paper circuits to families during Creativity Day. Families were interested in the materials we used and wanted to know where to purchase them. In addition, asking how circuitry works with each of the components.
- The session was an open make session on a Saturday. I had set up a method of blue-toothing images from my phone to a screen in the makerspace. The families were facilitated in such a way as to make something they had come up with. Once made, I asked them if I could take a photograph of what they made so I could add it to the slideshow. I noticed that there was great pride and joy in seeing their work on screen and they got to keep their work.
- We hosted a group of middle schoolers for a week-long workshop of making. It was a challenge working with that age group, but it was rewarding, too. It seemed that the kids enjoyed learning some new tools, such as 3-D modeling, and turning their drawings into digitally etched/cut/fabricated objects. We did a sewable circuit project that was a big challenge for them, since many of them had never sewn before. There was a turning point in that project where most of them went from being frustrated to gaining a foothold in the project, so that was great to see.
- When a student came in and asked what supplies are out today, and then started thinking out loud of all the possibilities. Watching a third grade learn to use a sewing machine. She kept coming back asking for more time on it. She made a purse, pouches, and a pencil bag for her back-to-school supplies. She said that she didn't know that she was good at sewing.
- When making finger puppets a little girl who had never sewn before got really excited by it and asked her mom if now she could help whenever her mom had to use sewing to fix something. It was amazing to see how our activity facilitated a family conversation that hadn't been had before. Perhaps the mom didn't think her daughter was old enough to sew it didn't

think she'd be interested. Not only was the daughter great at sewing but she learned a new skill that she was super excited about.

- When the students made a connection to their home supplies and how they could "Make" at home.

Describe something you did to help your Maker Corps organization that you feel like will have a lasting impact (e.g. develop programs that can be delivered again, train other staff, help with fundraising, documentation, etc.)

- Cultivating relationships.
- Documented 2D to 3D printing and created lesson plans.
- Give the children free promotional items pertaining to the Maker Corps.
- I completed documentation in the form workshop templates including necessary and possible supplies, time estimates, general instructions, and possible activity extensions, which means that Maker Ed staff at my organization can easily reuse and remix those workshops.
- I created an informal evaluation sheet that has a decorated frame and a space for children and families to draw their 3D creation in 2D in its environment and habitat - whether it was a sock monster, or paper-puppet. There were questions to like naming their creature, what makes it awesome, how could it become more awesome, etc. Older kiddos wrote stories about their creature on the back of the sheet as well.
- I developed a curriculum for the summer camp and also trained 3 other persons that joined in facilitating sessions in the summer camp.
- I developed the website I used as a portfolio, I helped created a check out system for a budding lending library as well as packaged they kits in that library. I also developed some professional developments. Lastly, I re-organized with the user and facilitator of the space in mind: put up a customary peg board which cut out so many questions the permanent facilitator would get just by organizing tools and supplies in a user-friendly way.
- I documented our entire Maker Corp. summer into a book. I printed out the book and gave it to the education department so that future maker corp. members will know how our year went and build from that.
- I feel that, by training new Maker Corps staff members, and by holding veteran Maker Corps members to higher standards (giving them more leadership responsibilities), I've enabled to camaraderie to grow and strengthen amongst our team members.
- I helped develop programs and workshop areas that engages the participants in the art of making. I also helped to fund raise and recruit students for their Summer Maker Camp.
- I helped to organize the space better and document printmaking processes.
- I really came in at the end of the session and only did a handful of classes. I do feel that I helped establish a relationship with the local library.
- I think I did some things wrong so that in making corrections to how things were run we will remember them more clearly for the future.
- I think I may have had a lasting impact in the way the organization exposes kids to 3d printing for the first time. The organization tended to first show kids how to download stl files from places like thingiverse. I chose to show kids how to start designing things in tinkercad first. It should be noted that the staff member primarily responsible for 3d printing tutorials left a few weeks prior so I'm not sure if this approach was always taken. The staff that were there

still were surprised how quickly the kids took to tinkercad and I think will be more likely to steer kids towards designing first rather than just downloading pre-designed files.

- I thought a lot about sewing and the places that it can go, and created a little fabric book that can be used to point out differences between fabric pieces.
- I trained our other makers and other staff members on the 3D printer and helped them learn how to use tinkercad to create 3D models. Prior to this barely anyone was using the printer. Now they have the skills to create their own models and facilitate workshops and activities focused on 3D printing.
- I worked on developing the makerspace accessibility. this was in terms of making the makerspace easier to understand what happened there. Additionally, I helped to evolve the culture of making on the maker bar. we went from a single set make to a more open menu based system where individuals could make their mind up as to what they made.
- I'm working on developing some to-be-determined workshops for the lab.
- My biggest accomplishment I think was asking questions as a new outsider that will help to create a more cohesive and intentional program. I did help with many administrative duties but I think they appreciated seeing how the program came across to an outside eye.
- My documentation will have a lasting impact. I can now show what I have been talking about. Thank you for encouraging me to do this.
- Offered to help with documentation.
- Produced lessons they could transfer to other programs.
- The librarian in Stockdale is going to plan more maker activities in the evening and on weekends for her patrons.
- Trained staff and volunteers.
- We documented our work by taking plenty of photos and created a book of the workshops we did during our S.T.E.A.M camp.
- We've developed a way of working within the maker space which should encourage visitors to return each week.

Now What

What will you be doing after Maker Corps ends?

- Continue with making at public libraries.
- Continue working full time.
- Going back to my own practice with new skills but I also plan to keep in touch with the organization and continue to help with the program of events.
- Going back to my regular work in the library.
- I am a college student, so I returned back to school.
- I am a school librarian. I hope to start up a small Maker Space in my elementary school library. Not sure how or when, but the impetus is there!
- I am attending the teacher credential program at UC Davis to become a high school chemistry teacher.
- I am currently the Maker Challenge coordinator at the Children's Museum of Houston - but I have accepted a position as the Power of Play Manager at Sci-Port: Shreveport's Discovery

Center. I will be charged with leading a component of the Children's Museum - including their Maker Space!

- I have one class left to take for my undergraduate degree and I will likely be working with a medical visualization company or in a laboratory. I would've loved to remain at my site as a resident maker but my site doesn't have the funding for a year-round maker.
- I just finished my Master of Fine Arts and am working at a local gallery. I also am teaching a few more workshops at the library directly because of this experience!!!!
- I will be continuing as a Maker Corps Member while also working as a college student studying in Computer Science.
- I will be continuing as the Curriculum Resource Teacher for the Pleasant Valley School District. All of our schools will have Makerspaces this year. I will be training Makerspace Assistants for each school, training 2 teacher reps for each school, offering professional development to the teachers and administrators, and teaching demo lessons. I will be documenting it all and encouraging the teachers to document their students' work with Seesaw Digital Portfolios.
- I will be relocating to New York.
- I will be returning to the classroom as a Studio Teacher.
- I will be teaching in some form or another either I public schools or for a non-profit like Assemble.
- I will be teaching Technology and Engineering at Easthampton High School in Easthampton, MA.
- I will be working with my host site on a school maker faire project.
- I'll be continuing my work as an artist and maker and volunteer at Fab Lab DC.
- I'll be continuing to work at DHF as the Mid-High Program Coordinator.
- I'll be working as a bookbinder and professional artists.
- I'll be working as a Trainer and volunteer Mentor.
- I'm a college student. Will make templates for paper circuits for fun and mix it with the typography work I will be creating.
- I'm a full time 6th grade Engineering/Design teacher.
- I'm a working artist/teacher, so I'll be teaching some public art workshops, and working on my own projects.
- Umii.co.
- Waiting to be invited to do more work in the host venue. building my arduino skill by attempting a linear led clock based on 12 windows in the host venue. Working towards developing forest school sessions for men.
- Working at Digital Harbor Foundation.

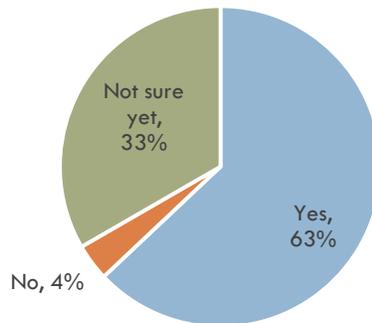
Now that you are at the end of your Maker Corps service, how do you think it will influence your life, academics, or career?

- Definitely made me aware of what Making is and how easily it can get kids thinking and doing.
- Gave me more experience and guidance working for DHF.
- I am RA this year, so I am thinking of how I could bring Making as a way to relax and bond with the women on my floor. Perhaps we will do a weaving or embroidery night!

- I am so glad to have a new set of skills and exposure to digital ways of working, which has already begun to influence my own artwork. I feel that I can go out and help facilitate other workshops or studios that have a fab component, so I hope to help with education, too.
- I feel inspired to be even more creative.
- I had been planning on teaching middle school and I had hoped that many of the activities I did at Maker Corps would fit directly into my curriculum. Now that I've accepted a job teaching high school students, I think that won't necessarily be the case. However, I will still try to make my lessons inspire creativity and wonder in my students like the best Maker Corps programming. I think this experience has also helped develop my thinking in regards to the power of informal learning networks and portfolio, documentation, and sharing. While I'm not sure exactly how this will play out in my teaching I believe it will certainly have some impact.
- I have a deeper connection to my community and will continue to find ways to be involved with the community!
- I have learnt to be a maker and I will keep making and training others to be makers.
- I have made great connections with other makers that will impact the content of my curriculum. Also, I want to go to FabLearn, a conference featuring making with my Maker Corp. Leader.
- I want to encourage Sci-Port to become involved as a Maker Corps Partner Site.
- I will take my new view of myself as a maker into other areas of my life. I am slightly more comfortable with failure and with focusing on the process rather than the product.
- I'm looking forward to becoming proficient at computer aided design and digital fabrication.
- It has boosted my knowledge of the Maker activities I can do with my students beyond the Google search.
- It has increased my confidence and leadership skills. Who knows where this will take me? I am excited to find out.
- It made me think a lot about other roles at other sites. I will probably do more research about my field.
- It's been a great experience and the skills I've developed should help me with future residencies.
- Not done yet!
- Not sure.
- Now I see Making in everything and see everyone as a Maker regardless of their academic field or background (STEAM). As such, everyone can be engaged in the acts of making.
- Personally I didn't know a lot about electronics, circuitry, woodworking, and using tools. I had to learn how to do all of these things well so that I could teach the skills. That made me feel very empowered. Electronics are no longer a scary hazy area that I'm not familiar with. I feel like now I have the confidence to learn more advanced skills in these areas that will help me fix my own things and build things I never thought I'd be able to.
- Reinspires my creative nature.
- The online community will help me with resources and stuff. I still want to watch the summer sessions I couldn't fit in at the time. The Maker Corps service showed me I am a maker. This has given me more confidence to try new things, e.g. attempting the linear clock.
- This was a great experience and opportunity to work directly with children and families in a making capacity.
- To me, making isn't so scary anymore and things seem a bit more doable!

- Trying to get a career in maker education.

Will you continue to stay involved at your Partner Site organization after your Maker Corps service ends?



Tell us a little more about what you will be doing there.

- An after school biweekly program that will involve literacy and making.
- As a trainer, I'll be helping to establish makerspaces in schools, scheduling and organizing making related programs and workshops.
- Assisting with events and workshops; using the studio and exhibiting work.
- Helping out when the museum is open to the public.
- I am a youth librarian so I will continue to be employed as such.
- I will be organizing workshops to train students and youths to be makers.
- I will continue to volunteer to ensure the Lending Library system gets refined.
- I will coordinate programs for middle and high school students.
- I would love to help assemble grow as an educational facility and to help organize and streamline programs there.
- I'll continue to volunteer for workshops, events, exhibitions, and everything else.
- I've expressed an interest in continuing to be involved. Those organizing the venue have said they want this too. We're not fully sure what this might be so time will tell.
- Mini Maker Program coordinator.
- Please see my #15 answer.
- Possibly volunteering. =)
- Setting up permanent makerspace.
- We will be servicing museum guests with Maker Annex workshops throughout the school year as well.
- Working on an after school series at Engine.

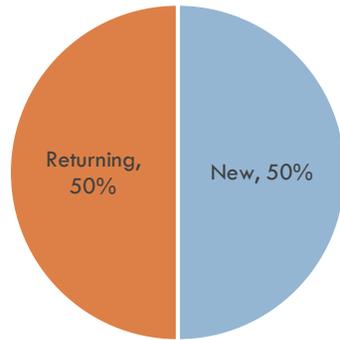
Maker Ed is working on ways to engage maker Corps alumni in the future. If the following options were offered, what would you be excited about? Select all that apply.



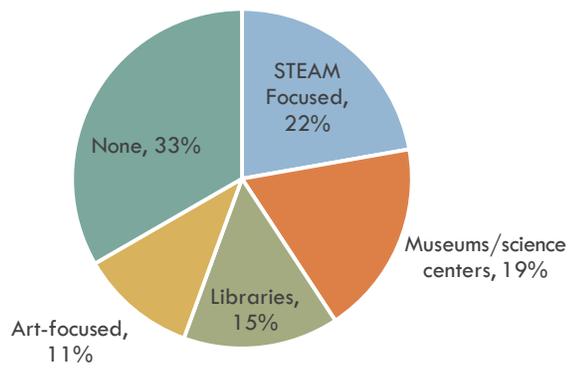
PARTNER SITES

INITIAL SURVEY RESULTS (N=27)

New or returning site?



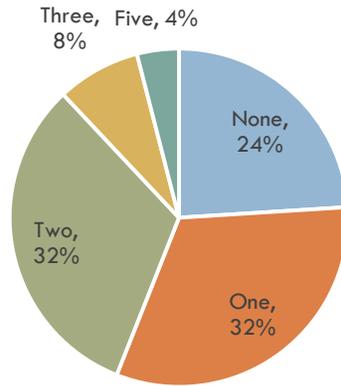
Type of organization?



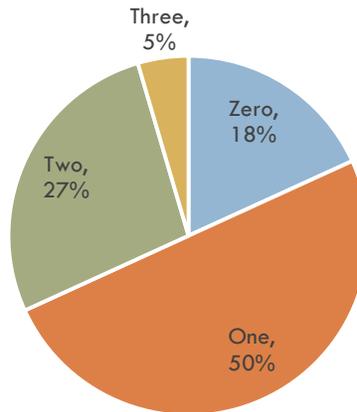
Staffing and Application

How many of your Maker Corps Members will be new to your organization and how many were already working or volunteering at your organization?

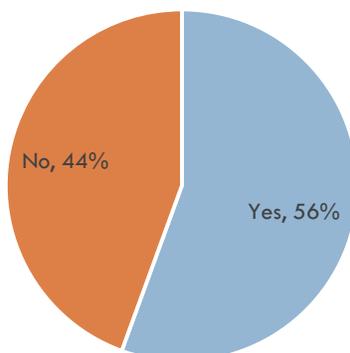
NEW TO OUR ORGANIZATION



ALREADY IN OUR ORGANIZATION



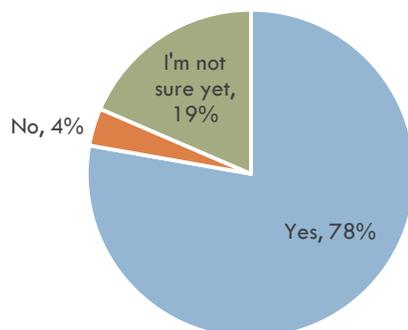
Did you receive funding from outside your organization, such as grant or donation, to pay for any part of the Maker Corps program?



Tell us more about how your organization is funding its participation in the Maker Corps program.

- \$3,000.
- 21st Century Community Learning Center granting organization.
- Because of the past successful maker camp, we are able to secure funding for it.
- Grant.
- Grant from Cognizant made in arrangement with Maker Ed.
- Grant from engineering school to support student Maker Corps members.
- In addition to the grant received from Maker Ed, we raised some funds from our partners for logistics and offline TOT sessions for volunteers that will serve during the Summer program.
- Local sponsors.
- The Friends of the Keene Public Library supports the program.
- The Friends of the Library funded 2-part time employees for \$8/hour for 20 hours per week.
- Through a combination of Cognizant funding and general staffing budget.
- We are funding our Maker Corps member completely from the grant we received through Maker Ed.
- We received a mini-grant from Cognizant's Making the Future initiative.
- We received funding from Maker Ed to begin our Maker Corps program this summer.
- We were a recipient of the Cognizant grant through the Maker Corps to fund our program.

Were you able to hire Maker Corps Members with the skills or knowledge you were looking for?



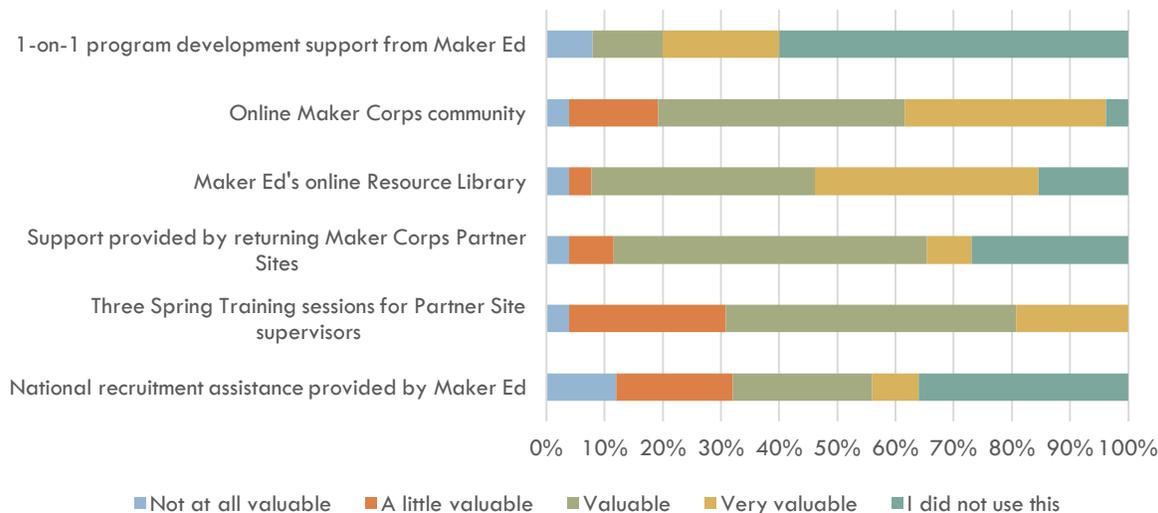
Tell us more about how the recruiting and hiring process went for you.

- I am within an engineering schools -- targeted just graduated students. Found 2 and asked them to apply.
- I was underwhelmed by a majority of applicants. They were either looking for something more technical than our site could provide (so I would refer them elsewhere) or did not seem to have an appropriate growth/open mindset that I require in my staff. I'm still trying to onboard my third MCM because of complications with her being an international student, and the HR logistics of that.
- It was easy for us because, they were already part of the organization with similar roles.
- Not good. I reached out to everyone I possibly could, posted flyers, put it in newsletters, Facebook, and never found anyone. Plus, we never really knew how much we were expected to pay them or what exactly their role was supposed to be. We only had one person from your end say they were interested in our site, but she lived too far away. I really never felt I knew what to do, what to ask for, and what to pay them.
- Smoothly.
- The MakerEd referral system did not yield many candidates. Luckily we live in the Bay Area which has many qualified maker educators.
- The referral came through the Maker Corps site.
- They were already staff member at our club with the relevant skills.
- This year we decided to have two of our current program staff be our Maker Corps Members. We're very excited for the opportunity to use the Maker Corps training to build the capacity and further the develop the skills of our internal maker educator staff!
- This year we had a more challenging time recruiting our makers, but we are very happy with who we found.
- Very well, lots of good candidates.
- We advertised on social media and received over 20 applications! We conducted phone interviews. The whole process was smooth, though it took a while interviewing so many people!

- We advertised using job announcement sites such as Indeed and Craigslist, as well as the local university and community college job boards. We also promoted on our social media outlets and staff shared with personal social networks.
- We contacted teachers and professors at tech centers and colleges. We contacted Maker groups. We promoted the opportunity on our website and on social media. Our difficulty was in the salary we hope to offer. We ended up increasing our salary. Our other difficulty is the amount of time it takes the city to do our background checks.
- We did not hire a new person. Our Maker Corps member is our Curriculum Resource Teacher that is helping us start and get our Makerspaces established.
- We didn't have money to pay people, and we only had a few applicants. One staff person here applied and is helping us in the makerspace working on our summer camp on forensics. We were hoping that other libraries would join us and provide a place for our maker applicants to work in, but only a couple libraries contacted us and I don't know if they worked anything out with the other maker folks. There were a couple of school librarians that also applied, and may bring their classes to our makerspace here sometime this summer.
- We had people within our organization that we hired.
- We had to go through traditional library hiring with the city HR. So the listing was put out publicly on city channels, but we also reached out to professors at the university of Wisconsin we have worked with in the past to share with students and on college job boards and recruited through the Bubbler social media which reaches a broad swatch of the artistic community in Madison.
- We heavily relied on social media and our existing website to advertise for the position. It went smoothly and we had a good pool of candidates to choose from.
- We hired a young man who worked with our campers last year. He is enthusiastic, a tinkerer and a previous participant in our youth development programs.
- We recruited internally.
- We recruited one Maker Corps Member from last year to come back and help with our Poth location and we hired a teenager to assist at the Stockdale location.
- We used our network to seek out qualified candidates.
- We were able to look at candidates both through the online Maker Ed process and our own personal recruiting. We interviewed 2 people from Maker Ed connections and 2 from our own networks. The top candidate came from our Maker Ed applications but she ended up choosing a different direction. Our final candidate ended up coming from within our organization as she was the best fit overall.
- We were lucky to have interest from students and seniors by having events at both types of institutions.

Training and Resources

Maker Ed is committed to helping each Partner Site feel supported in participating in Maker Corps. Which of these training and resources have you found helpful?



What additional training, resources, or information would have helped you or your organization prepare to host a Maker Corps Member(s)?

- A little more structure for the training sessions. More info on organization and management of activities, people (group size), and supplies.
- Having previous organization's examples of how they used their Maker Corps program in the past.
- I feel like I benefited from the online community training from a couple of years ago most -- it helped offload how to manage a room of kids from me to the online training.
- I think a continued support in finding national and international candidates of color.
- I wish we had hired our Member in time for the convening. That event was amazing.
- I would like to have an online community that is used more. It is always hard to get too and when I do there isn't much there. Actually, I often go back to the 2014 site and use the information that I find there.
- I would love camp "packets" with an idea of what a camp could be for a week. We spend so much time in development, and usually our makers are not yet on staff.
- N/A The training and prep is great!
- Not sure.
- Online resource information demos and video trainings.
- Other professional development as the three sessions we attended from Maker Ed were not only not helpful but we did not consider them to be professional development. In fact, we found them to be a waste of time.
- Training was adequate for me.
- We are new to the Maker Corp program, and so we were a little lost starting from scratch... also being a library that is under the State Department of Education, we have another set of

hoops to get through, like not being able to hire people or advertise this... I would have liked perhaps a guide on where to start.

- We loved the box of materials you sent out last year. It really helped us develop ideas for the site. We built on those this year. I'm not real sure how else you could have helped.
- We really needed the 1 on 1 program development and never received it. We appreciate that you offered to meet with us about our difficulty in finding as Maker Corps member, but we were never offered the 1 on 1 program development. I really feel we never received the support and help we needed to develop the program from scratch as we wanted to. We ended up just doing a rocket project which we could of done without paying the \$2,500 fee we did. I feel we paid \$2,500 and only got 3 mandatory hangouts in return which weren't very helpful.
- We've been doing this for a while, so I feel pretty comfortable with the process! :)
- Would have like to attend a training hosted by a makerspace to talk about room arrangement, managing the use of the makerspace and resources for great project ideas or ways to initiate tinkering. I am new to the makerspace environment and would be more comfortable going through a real-live makerspace experience. I learn best by doing and experiencing.

Returning MCM Host Sites

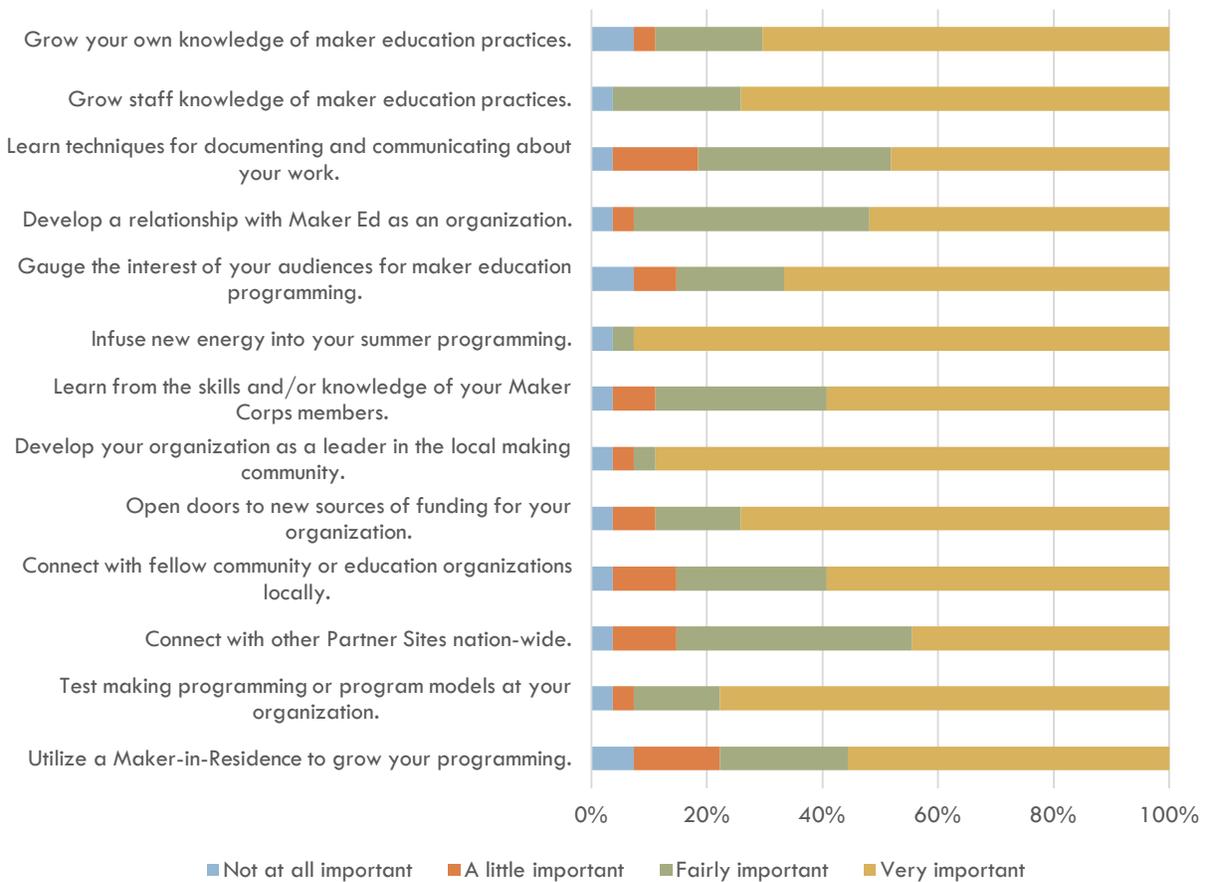
What made you want to return?

- Drawing from a large network of experienced makers and funding to hire the staff that would bring the most to our organization.
- I benefit from the larger community of Maker Corps sites -- social support and hearing about new ideas. Being associated with the Maker Corps program adds credibility and prestige, helpful to attract MCMs and parents (and their confidence that we're not a fly-by-night operation).
- I came back so that more of our staff can participate and benefit from the mentoring.
- It was great last year and the parents and kids who attended begged us to come back and do it again.
- Our members love maker camp and could not wait till summer starts to be part of it.
- Popularity.
- Summer is a busy time, and having the extra interns to make our programs happen is crucial to their success -- plus I love having enthusiastic interns, and we've had some GREAT folks in the past (and this year is amazing thus far!!).
- The network! The opportunity to share and learn with others is a powerful incentive that we hope to leverage better this time around.
- We enjoy being a part of the maker community.
- We like being a part of a larger community of practice.
- We Love Maker and All the fabulous ideas and resources you help us with!!
- We love Maker Ed! Having Maker Corps Members each year helps us to expand our capacity. This year we're excited to use the great training to build the capacity of our internal maker educator staff!

- We were excited to have the Maker Corps program again because having the extra brain power reinvigorates our existing programming. They also have time to create new activities that the existing staff may not have time to devote to. The Maker Corps has brought a great way for us to engage better with the public.

Organizational Goals

Organizations participate in Maker Corps for different reasons. How important is each of these goals to you and your organization?



Do you or your organization have other goals for participating in Maker Corps not listed here that are important to you? What are they?

- Growing a resource pool of talented maker educators to release into the community / onto the world! Several of our Maker Corps Members are in training to be teachers, and I can't think of a better experience for them to have than an informal environment like this to shake up their understanding of the school system and what it means to be an engaged learner. I'm hoping the lessons learned while here will spread to classes of children they serve in the future.
- Introduce urban youth to new technologies and provide space, energy and enthusiasm to encourage them to create, tinker, and have fun learning.

- Learn about the resources that are most and least useful for developing a Maker Space.
- Making this a sustainable effort.
- N/A The list covers it!
- No. [4]
- Not currently.
- The above listed is on point with what we hope to achieve with the Maker Corps.
- The goals listed accurately summarize our goals!
- We hope that the summer camp in Forensics is a success and that we can continue the program in the future. This is more of a STEM project, and we would really like people to come and use the technology that we have available. I hope that the kids learn that we also have these things that they can use, or tell people about this aspect of the makerspace. So far, we've only had a few classes come to play, and we'd like to see more people using the room.
- We want the children and teens to know that being a maker is easy and just takes a little imagination and creativity and sometimes some elbow grease and a desire to stick with it to completion. It's not always important to be successful with the project the first or second or third time. Sticking with it and learning how to improve it are what is important.
- We were hoping to learn enough to expand the program to our other two campuses and eventually year-round, but that is not going to happen because I feel we did not get the support we needed just to launch it at our Santa Rosa campus.

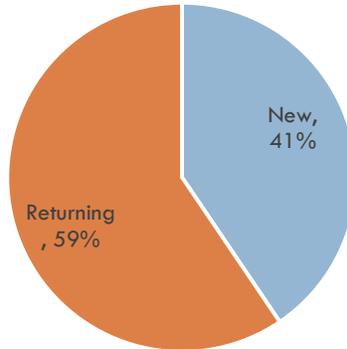
Describe how Maker Corps is a useful strategy for achieving your organization's mission or vision.

- An additional staff person through Maker Corps has given our organization the flexibility to focus on developing a maker program.
- Connect with like-minded organizations around the world.
- For all of the reasons listed in #8.
- I don't know because I feel that we somehow missed out on accomplishing what we hoped to in the program, lost \$2,500, and was not able to establish a Maker program like we had anticipated.
- Inspiring people to look at things differently and how everyone is a maker.
- It allows us to fully realize our educational programming goals.
- It allows us to put our MCMs almost immediately in a public-facing role. Having students engage with the community on making work helps fulfill our vision of being a knowledge center for STEM activities.
- It is very helpful to learn from an organization that is so focused on Maker education.
- It was easier to convince the organization leaders to commit to funding a person with the backing of Maker Ed, than if I had just suggested we hire someone for the summer.
- Kids are very interested in STEM programs. such as engineering, coding and tinkering projects that help develop their skills for the future.
- Maker corps facilitates our effectiveness at stimulating the creative and innovative potential of children and youth in Nigeria to provide solutions to challenges of poverty and under-development.
- Maker Corps helps us to connect to resources that allows our organization to do more with less. (in short connects us with grant money & helps us recruit staff).

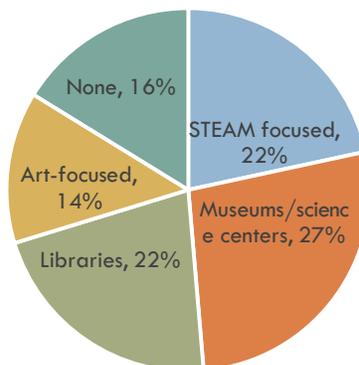
- Maker Corps is a fantastic way to bring fresh perspectives and ideas into our organization. In previous years we were able to get new eyes and work with individuals with different skill-sets. This year we're using the training that we know to be thorough and beneficial to increase the capacity and skills of two of our internal program staff.
- Maker Corps provides us with ideas and resources as well as contacts where we can get more ideas and resources to build a Maker Community.
- Our mission is to empower youth with the skills and abilities to better their community and the world. Engaging youth as makers helps them to see and experience themselves as problem-solvers, creators and innovators. They also come to realize the tools, resources and support exist to use their creativity and imagination in ways they find rewarding, enjoyable and that can contribute to creating the world they envision. Participating in the maker corps community helps us to achieve our mission of empowering youth.
- Participating in Maker Corps allows us to test programs and strategies so that we can better perform our mission: To provide free, open, and convenient access for all Keene residents to acquire information for growth in their personal knowledge; for life-long learning and enjoyment; for the fulfillment of informational needs, desires, and curiosities; and for enhancing quality of life in the community.
- The ability to add new talent for a temporary program allows us to find new ideas in a quick and fun way. We love this program. Our staff is energized after the summer and that makes our programming throughout the year improve!
- The mission of Children's Museum of Pittsburgh is to "provide innovative museum experiences that inspire joy, creativity and curiosity". Maker Corps Members help us provide more, deeper and additional programs for our community (kids, adults, educators) over the summer, as well as excite and infuse the regular staff to continue pushing the boundaries of what we're capable of providing year-round.
- We are a small organization and having two extra people during peak visitation is a great asset that directly hits our mission statement. They are able to interact more with the public so our existing staff can concentrate on how better to grow and sustain our program. The Maker Corps also provides us with new hands-on experiences that we can continue to utilize for years to come.
- We are excited to connect our organization (Tinker Camp) to a larger network of makers and tinkers around the country and beyond. We share many of the same educational goals and visions of Maker Ed.
- We did not find our participation in Maker Corps helpful on any level. In fact, we found it to be an added burden.
- We hope that people learn that the State Library has a makerspace and that the community is welcome. We hope that the Maker Corps program will encourage people to use the space.
- We were able to hire two team members that brought a lot of experience to our organization. They serve as role models to our students and staff.

FINAL SURVEY RESULTS (N=37)

New or returning site?

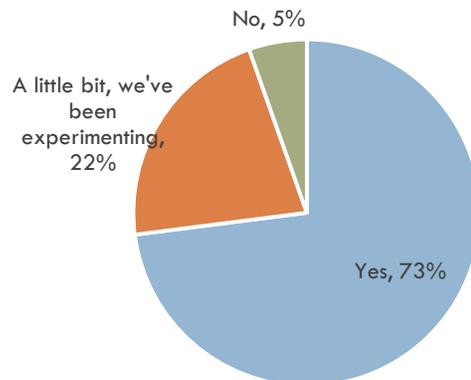


Type of organization?

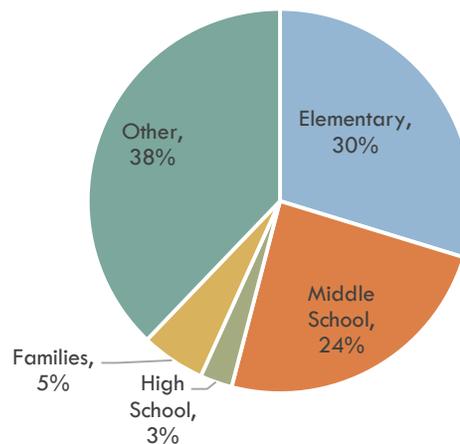


Your Maker Education Programming

Did your organization offer maker education programming prior to joining Maker Corps this year?



Who is your primary audience for your maker education programming?

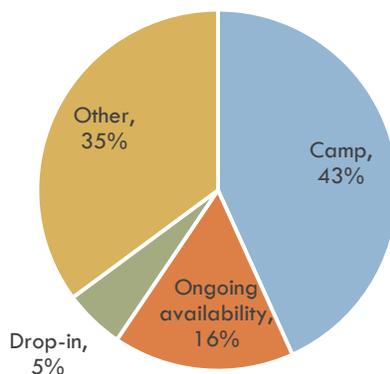


OTHER RESPONSES:

- 3rd – 9th grade.
- 5 to 15.
- Ages 7-15.
- Ages 8 & up.
- All ages.
- All ages, including adult programming.
- All of the above.
- All of the above – the primary audience is 3rd – 12th grade.
- Both middle & high school aged kids (12-18 yrs old).
- Families, young kids and elementary aged kids.

- I wasn't able to select multiple, but it would be families, elementary and middle school.
- Middle school and high school – don't seem to be able to select more than one.
- Teachers and students.
- Your form will not allow me to click on all that apply, So, elementary, middle, and high school.

What form does your maker education programming take?



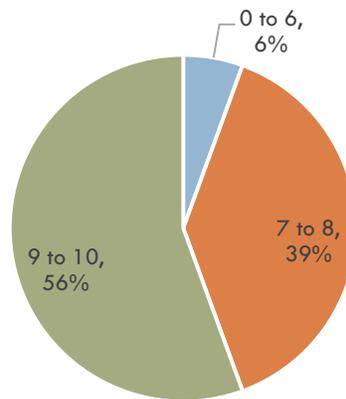
OTHER RESPONSES:

- Again can't click on more than one. So all of them. BTW: we don't call it a makerspace.
- Again, wasn't able to select multiple answers, but D stands for all of the above. 😊
- All of the above. [3]
- At the moment we have several Saturday sessions and summer sessions and regular code clubs but we are hoping to have a makerspace which is one regularly so people can drop in.
- Camp and Drop-in. [2]
- Drop-in and camps and classes.
- Drop-in, workshops, and ongoing availability.
- During the school day.
- We focus on camps and classes, but also have drop-ins, but the survey won't let me select both.
- Workshops and drop-ins.

Host Site Goals

A colleague at an organization similar to yours asks you about the Maker Corps program. How likely are you to recommend Maker Corps to this colleague?

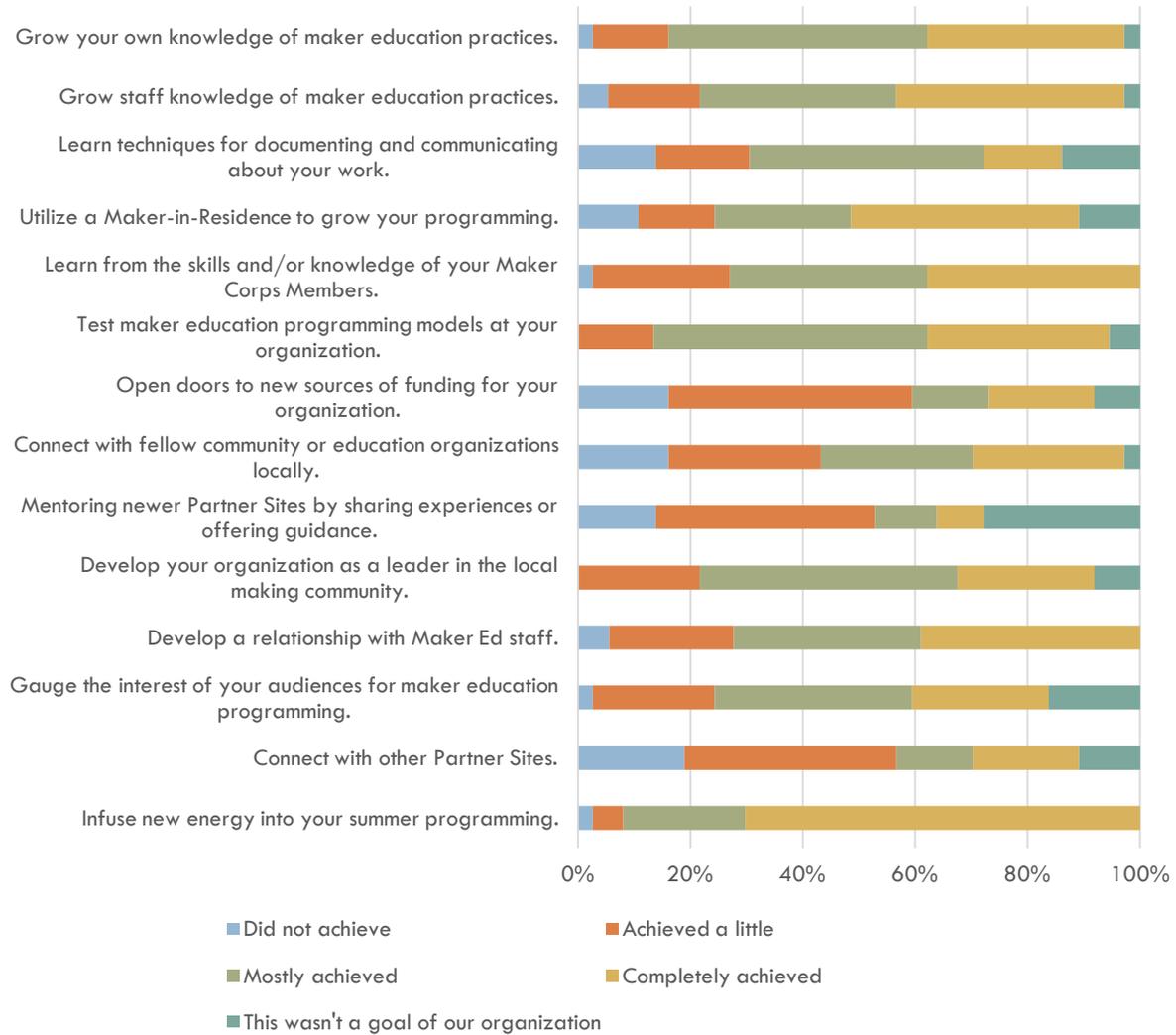
Net Promoter Score = 50



Why are you reluctant to recommend the Maker Corps program to a colleague?

- I don't feel like I got much out of the online sessions or Maker Corps Community. It was hard to incorporate making into our existing programming that was planned before we knew we were accepted into Maker Corps. I also am not aware that my Maker Corps members received any information or trainings from Maker Ed about improving their making facilitation skills.
- Form over function.

Do you think your organization was able to achieve or not achieve the following goals during Maker Corps?



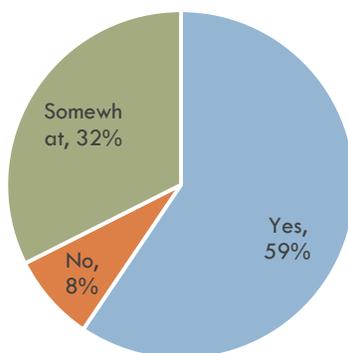
Did you achieve anything else this summer through Maker Corps that was important to your organization?

- A nice test run for our upcoming school programs. Thanks!
- Developing maker curriculum and specific projects.
- Developing new training techniques for staff in relation to maker education.
- I am very excited about the documentation piece. It is something that I have been wanting to do for a while.
- Introduced urban youth to new creative technologies.
- Launched 2 new programs and evaluated their effectiveness as well as student engagement. Based on these details, we are able to distribute our funds more effectively.
- No.

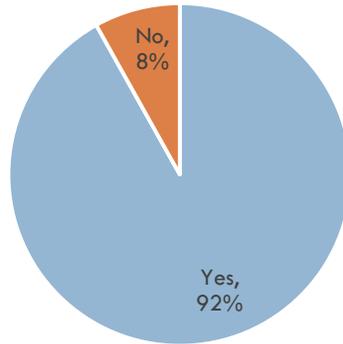
- Our Maker Corps Members built their capacity and solidified their roles as crucial developers and facilitators.
- We are once again planning to hire on one of our summer interns! This is a great program for us to recruit and hone talent in a low-risk way.
- We are so grateful for your support, which enabled us to include a new maker corps member and to bring making to more people.
- We love the Maker Corps program and are so thankful for all your resources. Sadly - a lot of the virtual gatherings conflicted with camps for us this year... but we were able to watch after the fact. Our feedback on not fully achieving on this report were due to our own shortfalls in time constraints and staffing issues. I think all Maker Corps sites would love to learn more about opening new doors for funding sources. For us, corporate sponsorships and grants in particular. In all we are so appreciative for all you do for us!!
- We were able to bring in new talents and activities into our programming this summer with the Maker Corps.
- We were able to develop traveling tinkering and making kits for our organization.
- We were able to open doors to two different populations of kids we hadn't yet reached. It was fantastic!
- Yes – we are starting to develop a core of volunteers, found out that there is a demand for this type of activity in libraries and also learnt a lot about what is possible. Learnt also that we are moving in the right direction – towards a permanent Makerspace.

Community and Communication

Maker Ed supports the community of Maker Corps sites in a number of ways. In general, have you felt a part of the Maker Corps community this summer?

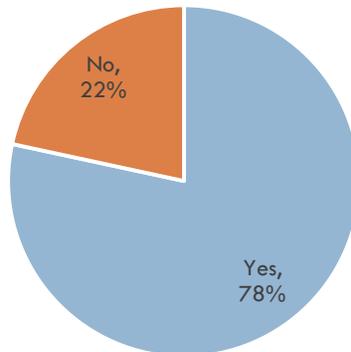


Were you aware of the online Maker Corps Community Discussion Forum?

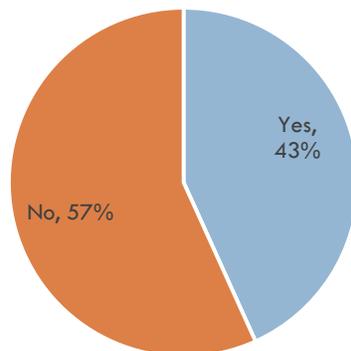


Did you do any of the following during your Maker Corps experience?

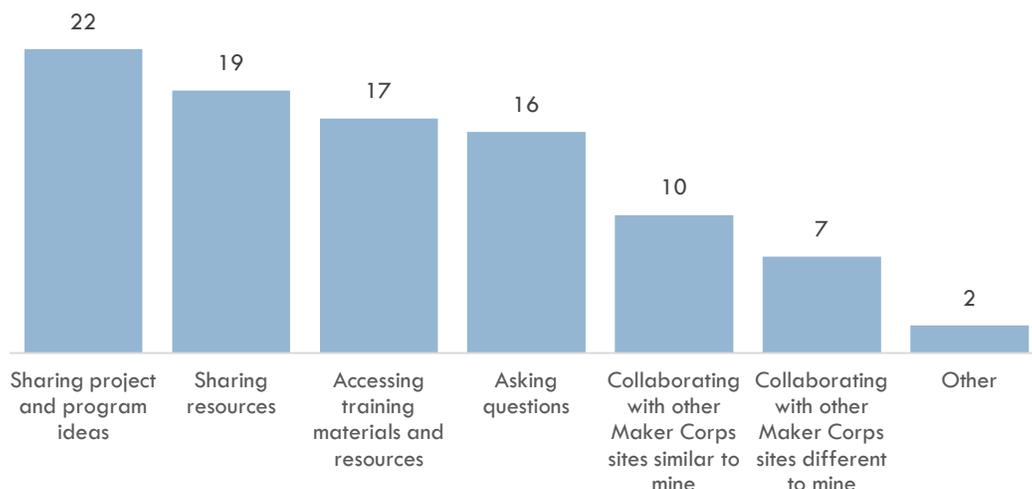
READ POSTS, COMMENTS, OR RESOURCES



POST TO THE FORUMS, TOPICS, OR BLOGS



In what ways was the online community helpful to you?



Do you have additional suggestions to make the Online Community more useful for future Partner Sites?

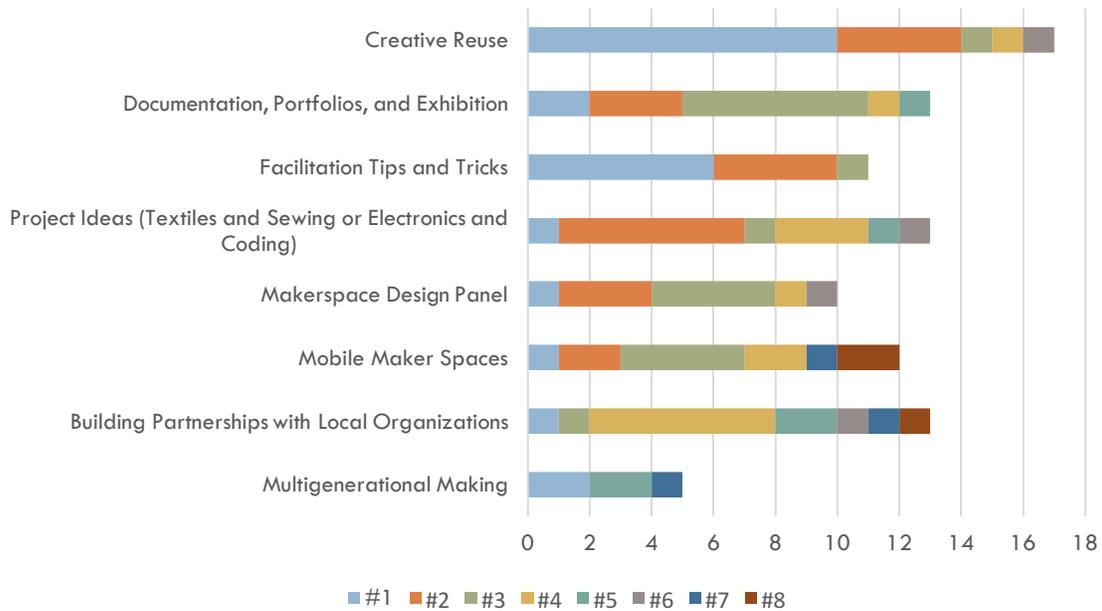
- Focus on documentation earlier in the summer so that they are documenting as they go.
- Cannot think of any right now.
- Clearer pathway to accessing the knowledge ports and resources that are online. It’s not always apparent what resources are available.
- Getting emails when things are posted would have made me more likely to check in – a digest would be ideal, really.
- I found it hard to navigate and time consuming to have to visit another website. I wish I had found a way to have new posts emailed to me so I could curate and read them as part of my normal workday rather than go to the website and sift through all the posts to try to find things of interest or use to me.
- It would be nice if the platform was integrated into a familiar platform like Facebook or Google+. Every time I wanted to share I have to go find my login information and I procrastinated setting up my account. If it was on Facebook for instance I would see the conversation every day because I am in the habit of looking at Facebook but I forget to look at the Maker Corps platform because I am not used to looking for it and I still don't remember the URL.
- It would have been useful to have the site up and running sooner. I think it could have been useful for researching activities.
- Would love to see this evolve from a Google site to something that feels more like a Maker Education forum if possible. Also, some sort of visual indicator to show where we are from I think would be helpful too, possibly with hot buttons so as we travel, we can look people up quickly and effectively.

What kept you from using the Online Community this summer?

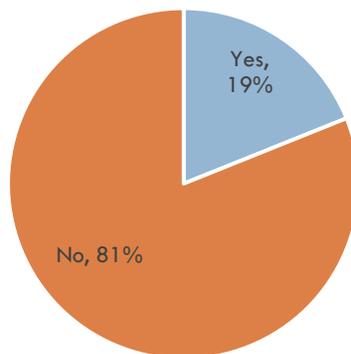
- Could not figure out how to post or find “friends.”
- Deferred to our maker corps members to do.

- Forgetfulness, to be honest. Also, slow movement/relatively low participation from other sites. I had initial difficulties with creating an account as well.
- I have a lot of information sources and outlets to manage and it never reached a high enough priority.
- I was too busy.
- I would have used it more but the actual programming that we had for kids took a lot of time and energy. Being able to view the session later was wonderful. I would like to come back to them again if possible.
- I'm so busy already! I wish I had more time to participate.
- Lack of time.
- Mainly our level of experience limited me from initiating discussions and I saw relevant resources and answers from previous posts.
- My own lack of time. We had a lot of staff turn-over and we all had to fill gaps in our staffing.
- Not enough time. Our hands were full just running the camp.
- Not useful for our needs.
- One goal for us was to be connected to the Maker community, but unfortunately once camp hit full stride, time flew and we missed out on the opportunity.
- Someone else on my team was also the contact for MakerEd.
- Too busy with summer camps.
- Trying to keep up with our own program. I left the community mostly to [name], our maker corps member.
- Unfortunately, our Maker Corps Member weren't very engaged with the online community and weren't comfortable with using it.
- We missed some of the google handouts due to other engagements.

Please select the Summer Sessions you attended or viewed in order of how useful they were to you.



Did you take advantage of the CEU certificate available through Sonoma State University?



Why were you interested in the CEU certificate?

- Add to my appeal as an informal education specialist.
- Expanding my knowledge of the subject.
- Further my knowledge of maker education.
- I ensured the Makers this summer took advantage of this.
- I saw it as an added benefit and I'm interested in how we can further validate making as an important skill set.

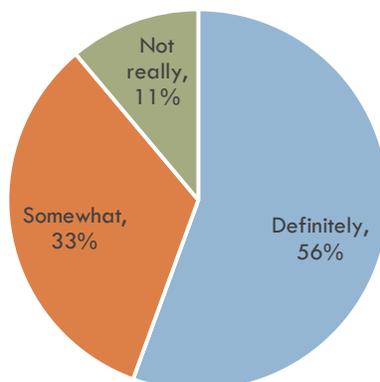
- MakerSpace Member currently in college and wanted to take advantage of the continuing education credits.
- Professional development.

Why weren't you interested in the CEU certificate?

- Already have master's degree.
- As the coordinator on the institution's end, I don't need additional credentials. At least one of the MCMs here did take advantage of this, though!
- Did not know about them.
- Didn't need it.
- Distance.
- Don't need it at my organization.
- I am interested but not certain of my schedule.
- I am not seeking a degree.
- I couldn't devote the time to it.
- I didn't know about it.
- I think that some of our members might have been but they started after the deadline to sign up.
- I thought it was for Maker Corps member, not for site lead.
- I was a host site.
- It just wasn't a priority for me.
- It was not something that I needed as the site leader.
- MCM's were not looking to go into a Maker position long term, so they didn't feel the need for it.
- No desire for CEU.
- No time. [2]
- Not applicable to me as site supervisor. Our Maker Corps Members are earning the CEU certs.
- Not needed.
- Not of value for us.
- Personally received certificate last year, one of MCM did this this year.
- This is the first I knew about it. Would it have been available in the UK?
- Time and I'm the ED of the org.
- Time. Could not attend summer session due to time as well because we are in full swing over the summer. Fall is best for us and I am looking forward to looking over these sessions later.
- Timing.
- Too busy.

Connection to Maker Ed

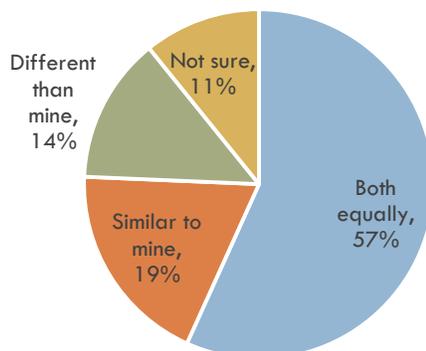
Did the support Maker Ed provided to you match your expectations?



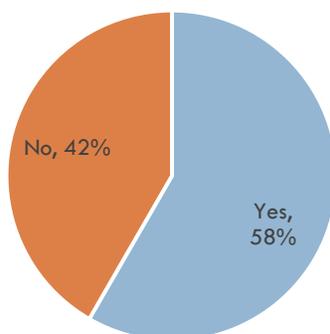
What was different between what you expected and what you received?

- I expected more training but it did not really fit into my work schedule and I didn't get much out of face-to-face virtual conversations or summer sessions.
- I felt that the support was more for the maker corps member, so I didn't reach out. Just left it up to her to maintain contact.
- I had a hard time making time to collaborate because our summer programming commitments were extreme and didn't provide much time for anything else.
- I had hoped to have some hands-on trainings on popular tools and/or software that can be offered in the makerspace to explore creating with youth.
- I was thinking that there would be more online communication and full cohort meetings.
- Last year we had the kits which provided a framework to work off of. We also had all new staff in our makerspace so I was looking for that kit to provide the guidance that I knew I wouldn't be able to once I got pulled into filling staffing gaps.
- Our MCMs did not take advantage of online community and online sessions as much as in years past. Our programming starts in June...get going well before sessions started.
- The "PD" expectations were vague. When sessions did emerge, they seemed haphazard and not well developed as a package.
- There was less pre-summer training and our Maker Corps Member felt as a loss for how to begin. I liked having the training models that were used last year for the beginning of the program.
- To be honest I was not sure what I was expecting but I did find at times some of the communication confusing or lacking. I did not know about some of the sessions. Timings of the sessions were difficult for UK participants.
- We expected support but rather had more to do.

Maker Corps sites are very diverse. Have you found value in learning from or connecting with organizations similar to yours or different from yours?



Would you have liked Maker Ed to facilitate more opportunities to make these connections?

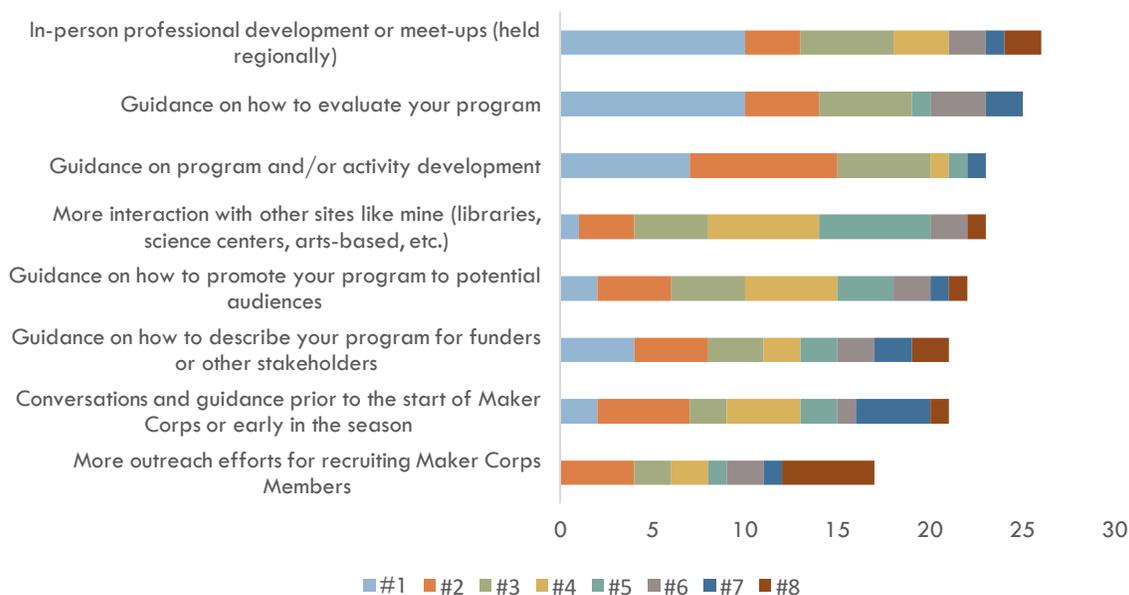


The Maker Corps staff was able to connect in-person during this spring and summer season through visits, conferences, and convenings. If you did connect, in what ways was it valuable or useful for you?

- Being able to connect directly made interactions more friendly and less impersonal despite distance barriers. Those discussions were specific to our peculiar needs and that made a lot of difference.
- I connected more in preparation, during the spring. The best part of all of this was the summit you put on at the Crucible. I learned a lot and met great people, made connections.
- I enjoyed meeting Maker Ed reps at the Capitol Hill Maker Faire. Meeting in-person helped me to feel more connected.
- I liked hearing what other maker sites were doing. As a government library, we have a lot of restraints and it was nice to see what could be done with the Maker Corps program.
- I really enjoyed the convening in Oakland.
- I was able to connect at national week of making events – talk top down strategies.

- It is always valuable to connect with Maker Corps staff. It helps to put a face with a person. This makes it easier to ask for assistance.
- It was good to be able to connect live with others and also ask questions and feel part of the community.
- It was great getting support in the development of staff for our team and getting ideas for projects.
- It was interesting to see what other libraries or doing.
- Meeting other educators, sharing best practices, and sharing similar challenges and brainstorming ways to overcome them.
- N/A. [3]
- Providing support and all kinds of great ideas!
- Seeing how people implement programming rather than just talking about how people implement programming.
- So many ideas an inspiration both solid ideas and ideas for possibilities from the convening. I'm so thankful I was able to attend that. I have been in contact with new connections and have implemented ideas. So valuable!
- The Maker Corps staff provided information about approaches, troubleshooting methods, resources and encouragement.
- Valuable to talk to colleagues in the field.
- We connected through convenings and a site visit! We found both to be highly valuable – the convenings offered a wide variety of relevant topics and the site visit was great for strengthening our relationship with MakerEd.
- What if each Maker site was responsible to photo each area in their exhibit space and combine everything in a document to send out to Exhibit staff in all of the museums? This would provide ideas to exhibit staff in all sites to expand their spaces.

Maker Ed is continually thinking of better ways to support Partner Sites. Below are categories of support they currently offer or may offer in the future. Which of these are you likely to use? Please rank in order of how interested you are in each resource.



Is there anything you wish you had known at the beginning of participating in Maker Corps?

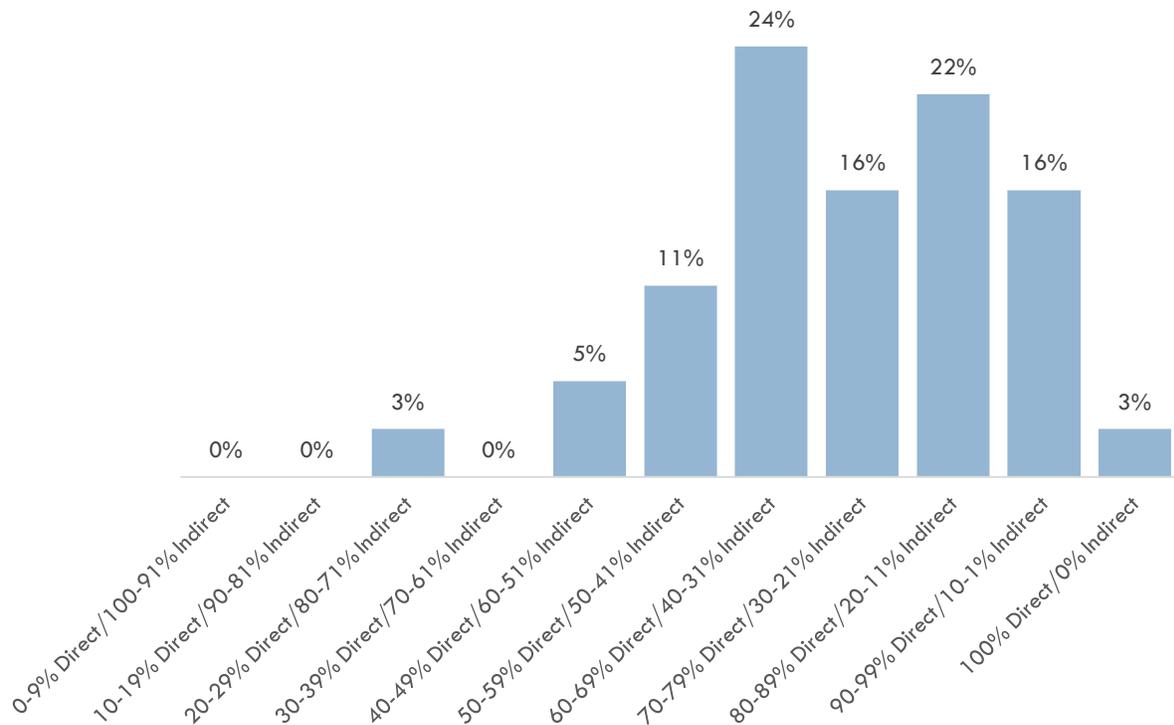
- How better to fund our programs.
- I think it would have been better if I had been able to access the material earlier. I was often playing catch-up. This was my fault to some extent given workload. So possibly make things easier to access. It was also confusing as to how we would fit in to the program given we are based in the UK.
- I wish I had known the time frames for the Maker Corps online meetups (they were all in the middle of the day during programming). Therefore, my members couldn't participate. I also would have liked to know a relative pay scale for what other organizations were paying their members.
- I wish there was an initial meeting to spell out everything that Maker Fellows is about. Maybe there was one and I missed it (I got this given to me late in the game).
- I wished I had known more about 3D printing and how to maximize youth exposure. We have a dual extruder printed and I don't know how to design for and use this capacity. I am currently trying to find online tutorials or local trainings.
- It was a little vague on how I was to notch in. I wish it has been clearer what events were for our Maker Corps hire and which were for leadership. It all kinds because white noise after a while.
- More info in the CE credits.
- No.
- No. The application process lets you know what you need.
- Nope!

- Not really, no.
- The requirements of the certificate program. I should have set up my blog at the beginning of the summer.
- This is my second year so we know what to expect.
- Yes, how much fluff we had to participate in to receive the funding.

MCM Service and Impact

What percentage of time did you Maker Corps Member work with your audience (direct service) and what percentage was spent behind the scenes (indirect service).

PERCENT WORKING WITH AN AUDIENCE/PERCENT WORKING BEHIND THE SCENES



In what ways did your Maker Corps Members have an impact on you and your organization?

- Brought in teens that would not have ordinarily participated. Came up with new ideas and better ways of implementing already planned activities.
- Enhancing our maker programming by introducing new working models and project ideas, has positioned us for higher impact, increased our visibility and generally developed our capacity as an organization.
- Expanded our perceptions of what a "maker" should do, background, etc.
- Generating good ideas and enthusiasm among campers.
- Getting involved was an important part of the program.

- He provided PD. He was already part of organization so other than funding Marker Corp wasn't helpful.
- I enjoyed a deepened friendship with our Maker Corps Member and sustained dialogue about making, programming, and overcoming hurdles. Having a close collaborator was invaluable and contributing to her growth as a maker very satisfying.
- Lori Rodgers is a staff person here and was our only Maker Corp member who helped with our summer camp. She learned a lot about conducting the classes, engaged with the kids and their experiments, and helped us a great deal.
- Made our summer programming successful.
- Maker Corps members brought myriad skills and experiences that helped create interesting activities for our summer program.
- MCM's bring new energy into the organization. I find this helps our small organization stay fresh and happy! I'd love a MCM for the school year :).
- Members engaged interaction with local organizations and brought new perspectives to our maker audience.
- My members designed a new camp curriculum. They also brought technical knowledge and ideas to our standard programming.
- Not sure that I understand the question. Overall the program had a great impact and has been an invaluable beginning to our maker program. We learnt a lot and develop loads of contacts and it has helped us with the planning and development of on-going makercart sessions and the main goal of having a makerspace. We have learnt a lot. The children who came to the sessions were very keen and really enjoyed the sessions.
- Our attendance to planned events during June and July were up.
- Our maker corps members are continually some of our most reliable and effective camp counselors. They bring a technical expertise that some of our other camp staff lacks.
- Our Maker Corp person was outstanding. She really brought the idea of formalizing our curriculum to the forefront.
- Our Maker Corps Member helped arrange the physical space to make it more conducive to making. They read the Maker Playbook from cover to cover and make sure our organization is up on best practices in making. Our Maker Corps Member also brought a high level of enthusiasm to making that was passed on to our members who are now more eager to start their own maker projects.
- Our Maker Corps Member served as facilitator and mentor. This was great. It allowed the youth to connect with someone who had a lot of interest, enthusiasm and they could relate to. He also served as a resource expert in some areas, teaching both me and our youth interns what he learned about using our 3D printer. Lastly he helped us to begin the process of reaching out to the community to explore ways of engaging more youth in the makerspace experience.
- Our maker corps members helped us flesh out our maker kits with instructions and evaluative tools for us to use in years to come.
- provided enthusiasm and new perspectives and ideas on how to do making activities.
- Reina had a great impact helping us get the program off the ground. Everybody wants her to come back, or for us to find funding to have her around long-term. Now more people see a need to have a fully-staffed position year-round, although we are not there financially.

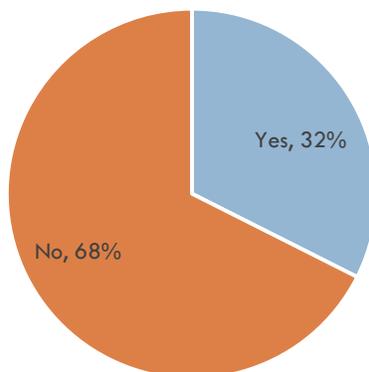
- She was very creative and brought several teens into the program that probably would not have otherwise participated.
- Showing kids all things that engineering and making could be incorporated with.
- Since our MCM were current staff (our program coordinators) they were able to greatly improve their content development and facilitation through the reflection and action plan that was part of the CEU credit.
- The Maker Corps Members were the primary facilitators and program developers for our Maker Space this summer. They had just over two thousand visitor interacts that lasted over 2 hours a piece.
- The primary way our staff was impacted was my working with maker corps members. One staff member co-taught a number of sessions. The other way is that they left behind curricula, which we can use throughout the year.
- They brought in their own passions to augment our programming!
- They brought new ideas and energy to the organization. The girls looked up to them and liked learning from them.
- They created dynamic learning experiences that our floor staff loved taking advantage of.
- They helped us implement our summer camps. We had them both working directly with the kids, and assisting with logistics, especially for the offsite camps.
- They provided the hands-on classes with our students which freed me up to implement new programs and manage the administrative and development opportunities at Art 120.
- They were active in trying new activities out with the public that allowed our staff to grow our program.
- They were both instrumental for our summer programs.
- We had ROCKSTARS this time around. They brought so much energy, enthusiasm, passion for learning, care for their work -- they were a pleasure to work with, learn from, and collaborate with. Their kindness, creativity and excitement were infectious and not only made them great facilitators for our audience, but also pushed the staff to be their best selves in order to support them.
- Worked with students from grade 1-8. Showed them a wide variety of maker projects. Made the parents aware of what is possible in a Makerspace.
- Working with my Maker Corps Members gave me insight into how better to design the activities we do with the public by giving me feedback regarding themes, helping establish what "learning curves" might arise, and developing additional teaching tools and techniques for new activities. Also, since our Maker Corps Members stay with the organization year-round, the skills and knowledge they learn through the summer Maker Corps program then benefits the organization throughout the year.

Please estimate the number of people served by your Maker Corps programming this summer. This may include children, youth, and adults. Estimates are OK.

Total = 153,226

Average (n=36) = 4,256

Have you hired, or have plans to hire, one or more of your Maker Corps Members from the summer?



How many are you hiring?

FULL-TIME

Total = 3

Average (n=3) = 1

PART-TIME

Total = 13

Average (n=9) = 1.444

Tell us a little bit more about why you decided to hire them.

- He was a great resource for the technical aspects of our lab, and he is learning to be a better teacher.
- He was enthusiastic with engaging visitors, particularly children, in making activities. He is open to learning and brought an energetic presence to our organization.
- New talents to our offerings.
- She knows our organization well. Has skills that will be easy to apply to our other programming.
- She was already an employee.
- They already work for us.
- Two of our three returned to school. Since week #2 we were scheming about how to trap them and keep them forever, but only one would let us. We finally found an opening that suits him well and that will allow him to continue to be a part of our work family. He is so thoughtful and engaged, and constantly pushes himself to "be uncomfortable" and try new things, get better, etc.
- want to continue efforts into the school year, and capture and document what worked well.
- We need staff to continue to operate our makerspace during the school year and no one is more equipped than the Maker Corps Members.
- We would like to continue to do more programming with partner sites throughout the year.

- We'll, we would hire them, except they are teaching full time this year, but are looking at ways to doing it next year.
- Well, we wanted to hire them, but they are moving across the country. So... doh!

What keeps you from hiring Maker Corps Members at your organization?

- A limited budget!
- Budget constraints.
- Budgetary concerns.
- Currently, we don't have the funds to do this. We are seeking grants to do this.
- Funding.
- Funds.
- Maker Corps Members are already staff of the organization.
- Money. [3]
- Money to hire for our six-week summer program was funded through our Friends of the Library 501 © (3) organization. There is no money in our current budget to take on new employees.
- Most are in school.
- Not sure who Maker corps members are. Do you mean volunteers?
- One of them goes to school out of this area and the other has another job lined up. We can only offer part time positions now, not full time.
- One of them was a college student and the other we would hire if she was interested but right now we have all the staff we need and can't afford to hire her.
- One was leaving the area to go to college. The other is student teaching for a teaching credential. I would have loved to retain both of them, and would have offered both a position.
- Our current staff were our maker corps members.
- Our Make Corps member will continue through September, but may be relocating to the west coast for a fellowship (possibly maker related :)). With her plans in flux, there may be a possibility that she could work part time, but right now I'm uncertain.
- Seasonal needs. We utilize Maker Corps members to support our additional need for our summer camp.
- The member has other obligations. We will hire him again next summer but most like not through Maker Corps.
- They were already hired.
- They're already staff at DHF.
- We can still only hire people on a contract basis per roll. One MCM is a junior in college. The other is looking for a full time job.
- We don't have the availability to keep them on after summer.
- We have a hiring freeze but if there was an opportunity to hire a member, we would do so.

Are there other ways that you are planning on staying in touch or working with your Maker Corps Members from this summer?

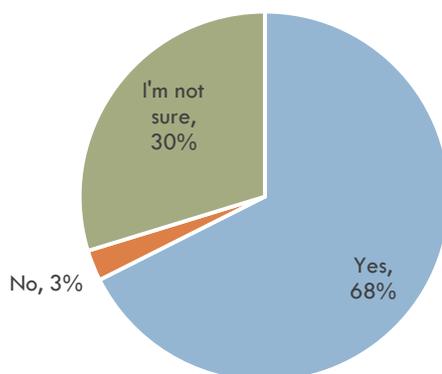
- As in-house staff, they will use new skills in future maker programs.

- Charlie and Abby both has said they would like to be involved in different ways.
- Email, Facebook, LinkedIn.
- Emails, Facebook.
- Emails, mostly. I let the ones who returned to school know that I'm happy to be a reference or write recommendation letters, should they need them, and that as long as there is an opening here, they're the top of the list for any positions next summer.
- He is a youth who went through Kheprw's youth development programs and is now in college. This is a life-long relationship and we will continue to be in-touch with him and involve him in working with us whenever we can and he is available.
- I have stayed in touch with this years and previous years MCM's via social media, and invited them to our events through the year.
- I hope so. We would be quite happy to hire back staff again next summer.
- If you mean maker corps volunteers then we are hoping to have regular volunteers meetups/sessions etc... We are hoping to get the volunteers to run a core set of programs and sessions. We also hope to sue volunteers to run the Makerspace.
- MCMs are students in our engineering program -- will continue to interact and possibly engage them further.
- N/a - they'll be with us after summer.
- No.
- One of the maker corps members is collaborating with my staff on an art project. It's a 3D projecting mapping project that will be exhibited during an arts festival!
- our current staff were our maker corps members.
- Our Maker Corp Members were college students that we share ideas during the year via Facebook.
- The member was part of our organization prior to maker corps and we will continue to work with him but not through maker corps.
- They still work with us.
- We bonded with our Maker Corp members so much this summer, that two of our staff are collaborating with the Maker Corp member on a projection mapping project for an art festival in September.
- We communicate regularly. We visit her school and are part of a close-knit network of STEM educators.
- We don't have plans but hopefully we will rehire these members next year. We will contact them 1st.
- We have found other exceptional people through the hiring process, who did not initially make the cut for maker Corps. So we will benefit in the long run from that association.
- We hope to engage them in volunteer opportunities at festivals throughout the year.
- Yes, Facebook.
- Yes, she will be exhibiting the projects she completed during the summer during October 2016.
- Yes, they will be helping out at our events.
- Yes, we would like to keep them as volunteers when available during the school year, and bring them back for camp again next year if they're interested.

- Yes! Our Maker Corps Member is a full time teacher at a local school. She plans to return as a volunteer and continue projects started over the summer and participate in the Tech Girls Club!
- Yes.
- Yes. My Maker Corps Members are contract but they are involved in our events as volunteers throughout the year. They are also professionals with flex schedules and the summer us perfect for them to be Maker Corps Members.

Final Thoughts

Would you or someone else at your organization be interested in serving as a Partner Site in 2017?



We're thinking about the future of Maker Corps. Do you have any suggestions or thoughts about your vision of what Maker Corps could be?

- Guidance for how MCMs to put this on resume -- maker-in-residence seems to work well. I found the online community to be more useful a few years back when it was more of a professional development and training model.
- I really love the national organization network model that was created through NISENet. (It was an NSF funded project that brought together researchers, museums, universities, etc. to teach about nanoscale science.) While there was national leadership, there were also regional hubs through which information and training was disseminated. Leaders from participating organizations met regionally one year and then nationally the next year to share in a conference/workshop setting. Activities kits were created each year and disseminated to participating organizations in a nationwide week of programming. While the nature of the organization was very different, I think there are definitely some take-aways that Maker Corps could utilize. I *LOVE* meeting others in person. It makes for much stronger connections between leaders in organizations. That's why I think the regional meet-ups idea could be a really strong tool. The activity kits were really fantastic because the activities were so well designed, came with all the supplies you needed along with facilitation instructions, background content information, info on where to purchase additional supplies, and materials translated in Spanish. I think having the information was really what set the kits over the edge for me. I think online resource bank that's growing from Maker Corps helps fit in this area and

will be a fantastic resource as it is utilized more and more. The last "vision" idea I have is making Maker Corps more financially accessible for budget strapped organizations. Even as a large organization, it was a tough financial decision our first year to join Maker Corps. I can't imagine having done so at my previous organization. In my "perfect world vision," I wish that funding was available to help pay for the Maker Corps Members salaries across all organizations to make the program accessible in more locations.

- I think cultivating more makers is a wonderful goal and I think you've contributed greatly by enabling us. I'd like to get back with you about a vision for the future after giving this question more thought.
- I think it is great.
- It would be great if it were more of a recruitment/placement service with more assistance in finding potential corps members. That's the hard part. We already have maker curriculum so the training isn't really needed. Maybe more marketing and ads to make it better known to potential candidates throughout the year. We had to send out a lot of emails and post the job like we normally do for our own job postings. I would pay for the placement service which saves us time.
- No.
- Not of the top of my head. Completing this survey at the end of a long day.
- Once again, the only downer was that summer is SO busy that our local sites never got around to a meet-up. I would love that to happen, although I don't know how MakerEd could be a part of that, exactly. A message board with daily email digest would be great, so I don't have to log into a special site to post/discuss.
- Our experience with Maker Corps is not something we plan to continue. There were way too many emails. The PD we received from Maker Corps we do not consider PD. It felt as if we did more for Maker Corps than they did for us.
- Possibly connecting experienced sites with less experienced sites in a mentorship / partnership role.
- The only way we were able to participate in the Maker Corps program was through the funding that we received. I think this is a necessary piece for most organizations as well. Without that funding, and waiving the participation fee, we would have just hired summer employees.
- Ways to have collective impact by getting access to funding.
- We enjoyed the year that "Possibility Box" were provided. This opened us up to new ideas.
- Would love to come together with others via a conference or training to learn and share with others new program ideas, makerspace experiences, etc. It would be great if Maker Ed could do something like this in Chicago, Ohio or Indiana.
- Yes, my vision is to provide an open space for youth as well as the public (especially teachers) have an opportunity to experiment with different forms of making in a fun and non-threatening way. No mistakes, just learning here.

Is there anything else that you would like us to know about Maker Corps at organization this summer?

- I really appreciate everything that the Maker Ed team has done for our organization this year! The support in helping develop (and attending) our professional development workshop, providing grant funding, letting us post a little too much on the forums (ha!). it's really been a

great second year in the program, and we look forward to continuing our relationship with making and Maker Ed throughout the year!

- It was great to see you guys come down her one day.
- No. [2]
- Perhaps some training for the members on classroom management tips and tricks. This was the most challenging aspect of the summer for both of our members.
- See 31.
- Thank you!!
- The Maker Corps partnership was an amazing way for DIY Girls to expose young Latinas to creative art making through technology.
- They both worked extremely hard with their normal workload plus the additional Maker Corps CEU content. Their reflections and action plans are going to be immediately implemented in the Fall programs.
- We are planning to continue our "Hangout" model in the future.
- We could not have achieved such a wonderful summer without Maker Corps and the generous support of the Tides Foundation. Thank you so much! :-).
- We had a great summer working with youth ages 7-15 and we are excited about and looking for ways to give more youth exposure to and engagement in the makerspace experience.
- We had an amazing experience with Maker Corps this summer! We were so fortunate to have found an MCM who is an experienced educator seeking to learn more about making in education. Because of this, we feel the experience was mutually beneficial! There are countless ways to improve and grow our maker program and in the coming weeks, staff and the MCM plan to meet to share thought about what worked and how we can improve.
- Yes - it was a thoroughly enjoyable and beneficial experience. Hopefully I can get more involved next year. I think I need to do more homework next time. The work has just begun and does not stop with the summer.