**District 279 Foundation**

**Grant Application**

**General Information**

**Project Title:**

CV - Club Cardinal

**Program Area:**

Curriculum

**What is the total project cost?**

6484

**List and describe the number of staff involved and their time commitment to this project.**

This year, I will the primary facilitator of the overall Club Crest View project. I will be in the room for each of the session which adds 1-2 hours of scheduled student time to my day. Erin is helping with grant applications, budgeting, and curating the item list one day per week. She also has resources in Schoology from past Foundation grants at Rice Lake to help this program grow into an even more independent and robust program for Crest View Students. As we gain traction, the classroom teachers and other specialists will be involved gradually to facilitate the work in the classrooms. The library and Tech ESPs will support as needed and in the future my hope is the Library ESP can have hours expanded to support the supervision of this program even more so we can have it open more often for each class. For now, we are working this program within our normal duties as we feel the work is relevant and important in our roles at Crest View.

**List and describe the number on non-staff volunteers involved and their time commitment to this project.**

As we look to expand the station options for the recess aspect of Club Cardinal, we are exploring the possibility of additional parent/community volunteers to help supervise and man the various stations. Crest View has not had a consistent volunteer presence in the library and this can be a great way to invite families and community members in for a fun opportunity.

**Total dollar amount of this grant request:**

2500

**Dollar amount per student for grant request:**

8.3

**School(s) included.**

CV

**If multiple schools, please enter which school would receive the funds.**

**Grant writer’s name:**

Holly Thompson

**Grant writer’s title:**

School Library Media Specialist

**Grant writer’s email address:**

thompsonholly@district279.org

**Grant writer’s telephone number:**

763-561-5165

**Project Questions**

**Provide a brief summary of your project request.**

Club Cardinal will consist of small groups of students choosing to come to the library during their recess time to create, build, play, collaborate, and learn new technologies that can then be transferred into the classroom. I plan to include LEGO building challenges, construction challenges, strategy & problem solving games, technology exploration, stop motion videos, academic challenge puzzles, etc. I am seeking additional funds that would provide the resources to create even more station choices and activities during this recess time as well as expanding the overall project into media center stations and PK-5th classrooms via morning work, WIN time, and other enrichment station opportunities during curriculum work.

**Explain the need for this project.**

For years I have been trying to figure out how to incorporate a “maker space” into our Crest View Community. While the possibilities of a 3-D printer, coding devices, and simple building materials are endless and enriching, the low academic test scores of our students require our staff to drill into the curriculum without much wiggle room. In addition, we have mostly new teachers who need to spend the first few years of their career getting the basics before being innovative. Finally, we have most of our students pulled out for services such as EL, Title 1 and Special Education. I had heard of other schools doing an alternative recess plan in the library and I ran into yet another barrier of the recesses being spread all afternoon instead of compact in the middle of the day which interfered with my teaching time.

Finally, this year, the schedules have been changed, I have a technology forward thinking leader and we have an additional .1 TAG specialist (Erin Haynes) for this year who has already implemented this in another school! So, Club Crest View has already started with the small amount of materials I have gathered (A few sets of donated Legos and puzzles and paper/crayons for drawing.) My anticipated outcomes are that by increasing the opportunities for students to participate in challenging, creative, innovative, and hands on activities at this stage in their education it will increase engagement, help them develop crucial 21st century skills, and empower them by providing the chance to discover and develop their talents and voice. We also have teachers that want to use different technologies and more creative ways of learning for our students, but the time it takes for kids to master the new equipment is prohibitive. Giving kids time to tinker during recess will allow them to apply their learning to those technologies and materials seamlessly.

**Describe the activities that will take place in detail.**

Club Cardinal primarily takes place during recess. Each classroom sends up to 4 students to the library 2 days per week to engage in the stations we have available that day. I intend to rotate stations based on time of year, availability, and to prepare for upcoming lessons in the classroom that would like to use the technology and equipment. I will teach and monitor the use of the materials and delight in their creativity and engagement. Erin will further the teaching by going into classrooms periodically to teach a whole class how to use the materials, introduce themes, or collaborate with the teacher on integrating the materials into a lesson. As students become more comfortable with the materials and the routine, we hope to extend the materials into the classrooms for teacher to facilitate on their own. But all of the magic starts at recess.

For example when we get sphero robots, we will practice using them in the library for fun challenges, but in the classroom we could bring them in for more directed math work such as programing angles.

The activities will be based on the items we receive, but all will be STEM focused with problem solving, collaboration, creativity, and engagement.

**Describe the innovative or creative components of the project.**

The whole nature of this project involves innovative and creative components! I am craving ways to give students more opportunities to participate in innovative and creative activities, knowing that those activities not only engage students but also provide extremely valuable 21st century skills. We are hoping for the stations to have the following: construction challenges with a variety of materials, LEGO challenges, Little Bits electronic building blocks, Sphero robots, Keva planks, and stop motion video projects, a duct tape creation station, an origami station, a KNEX challenge station, and a Rubik’s cube mosaic station to name a few. Approval of this grant would provide the funding and resources to add more stations so students can continue innovating and creating with an even wider array of mediums and choices.

**Describe the impact it is likely to have beyond the period of the grant.**

The materials that this grant would help provide will hopefully keep the Club Cardinal—both the recess session and the classroom and media stations running for many years beyond this one! While a few of the requested budget items are consumable, many of the other items are ones that will establish stations that will be used during the recess sessions, become part of the regular rotation of media stations, or checked out by teachers for use as stations in their rooms. In addition to the materials purchased supporting the project for many years, there is a very likely an impact on each student that will go beyond this year as they expand their ability to engage in creative, challenging, innovative work increasing the skills that will be so valuable in the 21st century workplace.

**How many students will be served by this project?**

303

**When will the project take place?**

Full Year 2018-2019

**How much student contact time will the project involve?**

We have already started the project with the materials we have and will add the materials from this funding as soon as possible. Currently, 8 students from each grade level can come to the library during recess 2 days per week. As we practice and learn the patterns, I’d like to increase this number to 12 in order for students to have more contact time. My goal is to increase the amount of time from once a month to 2-3 times per month. As we work our way into the school year, we can add the stations into book checkout time and move materials into classrooms on a checkout basis for a week or two at a time.

**Budget**

|  |
| --- |
| **DISTRICT 279 FOUNDATION** |
| **Project Budget Form** |
| **Provide a description of each Funding Source and Expense Item** |
| **INCOME** |  |  |
| **Amount** | **Please list all Funding Source(s) approached and the status** | **Status****(Choose the appropriate****response from drop****down list)** |
| $1,000.00 | Building Funds | Applied for |
| $3,000.00 | Education Minnesota Foundation Grant | To be applied for |
| $2,500.00 | District 279 Foundation Grant | Applied for |
|  |  |  |
| **$6,500.00** | **TOTAL** |  |
|  |  |  |
| **EXPENSE** |  |  |
| **Amount** | **Please list all expense items for this request** |
| $6,484.00 |  |
|  | Please refer to detailed list at the end of the application |
|  |  |
| **$6,484.00** | **TOTAL EXPENSE** |
|  |  |  |
| **$16.00** | **Difference (Income less Expense)** |  |
|  |  |
| $2,500.00 | Amount of your request to District 279 Foundation |  |
| 303 | Number of Students Served by Project |  |
| $8.25 | Estimated Cost Per Student\* |  |

**Indicate if students will be charged any fees for participation in the project.**

No

**If you are awarded funding for your project, explain how you will publicly acknowledge the financial support provided by District 279 Foundation.**

We will acknowledge the funds from the Foundation on our Social Media and Webpages and through emails to parents. I would also love to invite local newspapers or the TV station to interview students to promote this project and the support of the Foundation. I also have attended the Gala for several years and would love to thank donors personally.

**What are the anticipated outcomes as they relate to your curriculum and learning objectives? Describe how you will know if you achieved your intended outcomes.**

The intended outcomes of the Club Cardinal project definitely fall more heavily on the qualitative end of the spectrum, which will definitely be documenting through pictures and videos. The quantitative data that we are planning to collect includes attendance and participation at the recess sessions, number of visitors to the media center stations, and amount of full classes taught. I am hoping to see evidence that at least 80% of students participate in the program each month. We would also like to survey 5th grade students at the beginning of December and again in May using a Likert scale. We will be asking those students to reflect on the number of opportunities they believe they have for hands on, STEM, and challenge activities during their week and if they are satisfied with that amount. Our goal is for 80% of the students report an increase of at least 2 points on the Likert scale from the pre survey to the post survey.

**Principal/Site Leader/CIES Information**

**Name of Principal/Site Leader:**

Shawn Stibbins

**Email Principal/Site Leader:**

stibbinss@district279.org

**Name of CIES:**

**Email for CIES:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A** | **Desired Item** | **Consumable** | **Estimated Price** | **Quantity Wanted** | **Total Cost** | **Comments/Thoughts** | **Link** |
| A | Keva Planks | No | $450 | 1 | $450 | Love love love these!!! One of my #1 items! | <https://www.mindware.orientaltrading.com/keva-maple-1000-planks-in-wood-roller-bin-a2-63015.fltr?categoryId=553517&rd=keva> |
| A | Stikbots | No | $27 | 3 | $81 | awesome for stop motion; hugely popular at RL | [https://www.amazon.com/Zing-Stikbot-Yellow-Purple-Orange/dp/B0189A5UJS/ref=sr\_1\_3?s=toys-and-games&ie=UTF8&qid=1494640366&sr=1-3&keywords=stick+bots](https://www.amazon.com/Zing-Stikbot-Yellow-Purple-Orange/dp/B0189A5UJS/ref%3Dsr_1_3?s=toys-and-games&ie=UTF8&qid=1494640366&sr=1-3&keywords=stick+bots) |
| A | KNEX Sets | no | $40 | 2 | $80 |  | [https://www.amazon.com/KNEX-Building-Pieces-Engineering-Education/dp/B00I2V01HQ/ref=sr\_1\_7?s=toys-and-games&ie=UTF8&qid=1538680681&sr=1-7&keywords=knex](https://www.amazon.com/KNEX-Building-Pieces-Engineering-Education/dp/B00I2V01HQ/ref%3Dsr_1_7?s=toys-and-games&ie=UTF8&qid=1538680681&sr=1-7&keywords=knex) |
| A | Origami Paper (200 sheets) | Yes | $6 | 5 | $30 |  | [https://www.amazon.com/Caydo-Colors-Sheets-Origami-Projects/dp/B06WGTVZCG/ref=sr\_1\_3?s=arts-crafts&ie=UTF8&qid=1498710737&sr=1-3-spons&keywords=origami+paper&psc=1#Ask](https://www.amazon.com/Caydo-Colors-Sheets-Origami-Projects/dp/B06WGTVZCG/ref%3Dsr_1_3?s=arts-crafts&ie=UTF8&qid=1498710737&sr=1-3-spons&keywords=origami+paper&psc=1#Ask) |
| A | Colored Pencils | Yes | $5 | 3 | $15 |  | [https://www.amazon.com/dp/B00006RVTS/ref=sxts\_kp\_lp\_3?pf\_rd\_m=ATVPDKIKX0DER&pf\_rd\_p=8778bc68-27e7-403f-8460-de48b6e788fb&pd\_rd\_wg=BVpGf&pf\_rd\_r=B419GZ426SY58ES2J5ZT&pf\_rd\_s=desktop-sx-top-slot&pf\_rd\_t=301&pd\_rd\_i=B00006RVTS&pd\_rd\_w=jmA1t&pf\_rd\_i=colored+pencils&pd\_rd\_r=df69d491-3600-4649-9de4-41c5ef107618&ie=UTF8&qid=1537555141&sr=3](https://www.amazon.com/dp/B00006RVTS/ref%3Dsxts_kp_lp_3?pf_rd_m=ATVPDKIKX0DER&pf_rd_p=8778bc68-27e7-403f-8460-de48b6e788fb&pd_rd_wg=BVpGf&pf_rd_r=B419GZ426SY58ES2J5ZT&pf_rd_s=desktop-sx-top-slot&pf_rd_t=301&pd_rd_i=B00006RVTS&pd_rd_w=jmA1t&pf_rd_i=colored+pencils&pd_rd_r=df69d491-3600-4649-9de4-41c5ef107618&ie=UTF8&qid=1537555141&sr=3) |
| A | Sharpener | No | $23 | 1 | $23 |  | [https://www.amazon.com/Electric-Sharpener-Auto-Stop-Sharpeners-Classroom/dp/B07FRPJTLQ/ref=sr\_1\_10?s=office-products&ie=UTF8&qid=1537555736&sr=1-10&keywords=colored+pencil+electric+sharpeners](https://www.amazon.com/Electric-Sharpener-Auto-Stop-Sharpeners-Classroom/dp/B07FRPJTLQ/ref%3Dsr_1_10?s=office-products&ie=UTF8&qid=1537555736&sr=1-10&keywords=colored+pencil+electric+sharpeners) |
| A | Coloring Page Wrapping Paper | Yes | $16 | 2 | $32 |  | [https://www.zazzle.com/adult+coloring+wrapping+paper](https://www.zazzle.com/adult%2Bcoloring%2Bwrapping%2Bpaper) |
| A | Felt Tip Pens | Yes | $17 | 3 | $50 |  | [https://www.amazon.com/Paper-Mate-Flair-Medium-Limited/dp/B01M4M3S7G/ref=sr\_1\_1\_sspa?s=office-products&ie=UTF8&qid=1537555328&sr=1-1-spons&keywords=felt+tip+pens&psc=1](https://www.amazon.com/Paper-Mate-Flair-Medium-Limited/dp/B01M4M3S7G/ref%3Dsr_1_1_sspa?s=office-products&ie=UTF8&qid=1537555328&sr=1-1-spons&keywords=felt+tip+pens&psc=1) |
| A | Breakout EDU Kit | No | $150 | 1 | $150 |  | <https://store.breakoutedu.com/collections/all/products/breakout-edu-kit-platform-access> |
| A | Spirograph | No | $20 | 1 | $20 |  | [https://www.amazon.com/Kahootz-Spirograph-Deluxe-Design-Set/dp/B009VE38CI/ref=sr\_1\_3?s=toys-and-games&ie=UTF8&qid=1538675554&sr=1-3&keywords=spirograph](https://www.amazon.com/Kahootz-Spirograph-Deluxe-Design-Set/dp/B009VE38CI/ref%3Dsr_1_3?s=toys-and-games&ie=UTF8&qid=1538675554&sr=1-3&keywords=spirograph) |
| A | Sphero | no | $37 | 4 | $148 |  | [https://www.amazon.com/Sphero-Mini-Green-App-Controlled-Robot/dp/B071RHYKDL/ref=sr\_1\_6?ie=UTF8&qid=1538677738&sr=8-6&keywords=sphero](https://www.amazon.com/Sphero-Mini-Green-App-Controlled-Robot/dp/B071RHYKDL/ref%3Dsr_1_6?ie=UTF8&qid=1538677738&sr=8-6&keywords=sphero) |
| B | Snap Circuts (prices vary on box size) | No | $35 | 2 | $70 |  | [https://www.amazon.com/s/ref=nb\_sb\_ss\_i\_1\_3?url=search-alias%3Dtoys-and-games&field-keywords=snap+circuits&sprefix=sna%2Ctoys-and-games%2C365&crid=3L8HL5WLIKL1P&rh=n%3A165793011%2Ck%3Asnap+circuits](https://www.amazon.com/s/ref%3Dnb_sb_ss_i_1_3?url=search-alias%3Dtoys-and-games&field-keywords=snap+circuits&sprefix=sna%2Ctoys-and-games%2C365&crid=3L8HL5WLIKL1P&rh=n%3A165793011%2Ck%3Asnap+circuits) |
| B | LEGO bricks | No | $50 | 2 | $100 |  | [https://www.amazon.com/LEGO-Classic-Large-Creative-Brick/dp/B00NHQF6MG/ref=pd\_rhf\_gw\_p\_img\_4?\_encoding=UTF8&psc=1&refRID=B8FTZ6Z8QTF3DEAY6EXK](https://www.amazon.com/LEGO-Classic-Large-Creative-Brick/dp/B00NHQF6MG/ref%3Dpd_rhf_gw_p_img_4?_encoding=UTF8&psc=1&refRID=B8FTZ6Z8QTF3DEAY6EXK) |
| B | 3x3 Rubik's Cubes (100 cubes) | No | $625 | 1 | $625 |  | <https://www.youcandothecube.com/shop/mosaic-sets-100-cubes> |
| B | 2x2 Rubik's Cube | No | $5.00 | 0 | $0 |  | [https://www.amazon.com/dp/B01NAS3SWY/\_encoding=UTF8?coliid=IH4W6SAA8WHXC&colid=3I7X7YXH344PH&psc=0](https://www.amazon.com/dp/B01NAS3SWY/_encoding%3DUTF8?coliid=IH4W6SAA8WHXC&colid=3I7X7YXH344PH&psc=0) |
| B | Strawbees | No | $20 | 0 | $0 |  | [https://www.amazon.com/Strawbees-Maker-Builder-Kit-Educational/dp/B01HBJKEE4/ref=sr\_1\_1?s=toys-and-games&ie=UTF8&qid=1519326644&sr=1-1&keywords=strawbees](https://www.amazon.com/Strawbees-Maker-Builder-Kit-Educational/dp/B01HBJKEE4/ref%3Dsr_1_1?s=toys-and-games&ie=UTF8&qid=1519326644&sr=1-1&keywords=strawbees) |
| B | Little Bits (set of 8) | No | $200 | 1 | $200 |  | [https://www.amazon.com/s/ref=nb\_sb\_noss\_1?url=search-alias%3Dtoys-and-games&field-keywords=little+bits&rh=n%3A165793011%2Ck%3Alittle+bits](https://www.amazon.com/s/ref%3Dnb_sb_noss_1?url=search-alias%3Dtoys-and-games&field-keywords=little+bits&rh=n%3A165793011%2Ck%3Alittle+bits) |
| B | Qubits | No | $40 | 0 | $0 |  | [https://www.amazon.com/s/ref=nb\_sb\_ss\_i\_2\_5?url=search-alias%3Dtoys-and-games&field-keywords=qubits+construction+toy&sprefix=qubit%2Ctoys-and-games%2C197&crid=S4UY92AJUXZF&rh=n%3A165793011%2Ck%3Aqubits+construction+toy](https://www.amazon.com/s/ref%3Dnb_sb_ss_i_2_5?url=search-alias%3Dtoys-and-games&field-keywords=qubits+construction+toy&sprefix=qubit%2Ctoys-and-games%2C197&crid=S4UY92AJUXZF&rh=n%3A165793011%2Ck%3Aqubits+construction+toy) |
| B | Cubelets | No | $300 | 0 | $0 |  | [https://www.amazon.com/s/ref=nb\_sb\_noss\_1?url=search-alias%3Dtoys-and-games&field-keywords=cubelets&rh=n%3A165793011%2Ck%3Acubelets](https://www.amazon.com/s/ref%3Dnb_sb_noss_1?url=search-alias%3Dtoys-and-games&field-keywords=cubelets&rh=n%3A165793011%2Ck%3Acubelets) |
| B | DazzLinks | No | $169 | 0 | $0 |  | <https://www.skillmillnyc.com/store/c2/Educational_Products.html> |
| B | Dominoes | No | $40 | 1 | $40 |  | [https://www.amazon.com/dp/B013QK9TD4/ref=psdc\_166093011\_t1\_B01JMVEUY4](https://www.amazon.com/dp/B013QK9TD4/ref%3Dpsdc_166093011_t1_B01JMVEUY4) |
| C | Duct Tape Book (Hardcover) | No | $11 | 1 | $11 | Many other versions of books like this if you have one you like better | [https://www.amazon.com/Kids-Guide-Awesome-Duct-Projects/dp/1629148016/ref=sr\_1\_1?ie=UTF8&qid=1494621263&sr=8-1&keywords=duct+tape+books+for+kids](https://www.amazon.com/Kids-Guide-Awesome-Duct-Projects/dp/1629148016/ref%3Dsr_1_1?ie=UTF8&qid=1494621263&sr=8-1&keywords=duct+tape+books+for+kids) |
| C | Duct Tape Bulk (set of 18) | Yes | $25 | 1 | $25 |  | [https://www.amazon.com/Multi-Colored-Duct-Tape-Variety/dp/B074CNL7WB/ref=sr\_1\_4?ie=UTF8&qid=1536282426&sr=8-4&keywords=bulk+duck+tape](https://www.amazon.com/Multi-Colored-Duct-Tape-Variety/dp/B074CNL7WB/ref%3Dsr_1_4?ie=UTF8&qid=1536282426&sr=8-4&keywords=bulk+duck+tape) |
| E | Osmo Explorer Kits | No | $190 | 0 | $0 | the apps for this are in self-service but take a TON of memory | <https://www.playosmo.com/en/shopping/> |
| E | Osmo Base | No | $30.00 | 0 | $0 |  | [https://www.amazon.com/dp/B074L38X5D/\_encoding=UTF8?coliid=I190G3MHNUVKA8&colid=3I7X7YXH344PH&psc=0](https://www.amazon.com/dp/B074L38X5D/_encoding%3DUTF8?coliid=I190G3MHNUVKA8&colid=3I7X7YXH344PH&psc=0) |
| C | Makedo Cardboard Construcction Set | No | $150 | 1 | $150 |  | [https://www.amazon.com/Makedo-Cardboard-Construction-Reusable-Whole-Classroom/dp/B071GRFKJ8/ref=sr\_1\_1\_sspa?ie=UTF8&qid=1536289081&sr=8-1-spons&keywords=makedo+cardboard+construction+tool+kit&psc=1](https://www.amazon.com/Makedo-Cardboard-Construction-Reusable-Whole-Classroom/dp/B071GRFKJ8/ref%3Dsr_1_1_sspa?ie=UTF8&qid=1536289081&sr=8-1-spons&keywords=makedo+cardboard+construction+tool+kit&psc=1) |
| E | Qwirkle Game | No | $20 | 0 | $0 |  | [https://www.amazon.com/MindWare-MDS-32016W-Qwirkle-Board/dp/1933054395/ref=sr\_1\_3?ie=UTF8&qid=1536348848&sr=8-3&keywords=qwirkle](https://www.amazon.com/MindWare-MDS-32016W-Qwirkle-Board/dp/1933054395/ref%3Dsr_1_3?ie=UTF8&qid=1536348848&sr=8-3&keywords=qwirkle) |
| E | Skill Sticks | Yes/No | $8 | 0 | $0 |  | [https://www.amazon.com/Simply-Art-Wood-Skill-Sticks/dp/B00380E7C6/ref=sr\_1\_1?ie=UTF8&qid=1536864425&sr=8-1&keywords=skill+sticks](https://www.amazon.com/Simply-Art-Wood-Skill-Sticks/dp/B00380E7C6/ref%3Dsr_1_1?ie=UTF8&qid=1536864425&sr=8-1&keywords=skill+sticks) |
| D | LEGO compatible wall/baseplate (48" x 24") | No | $105 | 1 | $105 |  | <http://www.mackinmakerspace.com/lego-compatible-wall/> |
| E | Storage Bins | No | $12 | 0 | $0 | This goes along with the LEGO wall | [https://www.amazon.com/Performance-Tool-W5190-10-Bin-Storage/dp/B000FW4N3S/ref=sr\_1\_10?ie=UTF8&qid=1513884609&sr=8-10&keywords=wall%2Bmount%2Bstorage%2Bbins&th=1](https://www.amazon.com/Performance-Tool-W5190-10-Bin-Storage/dp/B000FW4N3S/ref%3Dsr_1_10?ie=UTF8&qid=1513884609&sr=8-10&keywords=wall%2Bmount%2Bstorage%2Bbins&th=1) |
| D | Inventor's STEM kit | No | $149 | 1 | $149 |  | <https://www.lakeshorelearning.com/product/productDet.jsp?productItemID=1%2C689%2C949%2C371%2C932%2C259&ASSORTMENT%3C%3East_id=1408474395181113&bmUID=1513885367142> |
| D | Folk Tale STEM kit | No | $149 | 1 | $149 |  | <https://www.lakeshorelearning.com/product/productDet.jsp?productItemID=1%2C689%2C949%2C371%2C931%2C184&ASSORTMENT%3C%3East_id=1408474395181113&bmUID=1513885593967> |
| B | Magnatiles | No | $120 | 2 | $240 |  | [https://www.amazon.com/Magna-Tiles-100-Piece-Clear-Colors-Award-Winning/dp/B000CBSNRY/ref=sr\_1\_2\_sspa?s=toys-and-games&ie=UTF8&qid=1540580113&sr=1-2-spons&keywords=magnatiles&psc=1](https://www.amazon.com/Magna-Tiles-100-Piece-Clear-Colors-Award-Winning/dp/B000CBSNRY/ref%3Dsr_1_2_sspa?s=toys-and-games&ie=UTF8&qid=1540580113&sr=1-2-spons&keywords=magnatiles&psc=1) |
| B | Magformers | No | $141 | 1 | $141 |  | [https://www.amazon.com/Magformers-144-piece-Building-magnetic-educational/dp/B008A078Z2/ref=sr\_1\_4?s=toys-and-games&ie=UTF8&qid=1540580455&sr=1-4&keywords=magformers](https://www.amazon.com/Magformers-144-piece-Building-magnetic-educational/dp/B008A078Z2/ref%3Dsr_1_4?s=toys-and-games&ie=UTF8&qid=1540580455&sr=1-4&keywords=magformers) |
| D | 3D Printer + materials | No/Yes | $3,200 | 1 | $3,200 |  | <https://store.makerbot.com/printers/replicator/bundles/rep/> |
| E | Cricut Air (paper cutting) & supplies | No/Yes | $300 | 0 | $0 |  | <https://shop.cricut.com/en_us/machines/cricut-explore-air-2/cricut-explore-air2-everything-bundle-raspberry.html> |
| E | General Craft Supplies (glue, pipe cleaners, etc.) | Yes | $200 | 1 | $200 |  |  |
|  |  |  |  |  | $6,484 |  |  |