

Office of Commonwealth Libraries Public Library STEM Survey 2017 Survey Comments

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STEM Programming

1. We provide basic and intermediate computer literacy classes for adults. A library volunteer is conducting classes for elem. age using the library's robots and materials provided by the STEM grant. We periodically offer both structured and drop-in science programs for pre-K and elementary ages, some of which are coordinated with the local school district.
2. Coding programs for kids using either a robot, or online characters
3. Junk Box Wars, Lego, STEM kits provided by Susan Pannebaker, Math Circle, Kids in the Garden
4. We always have available for children's play the Wee Build sets and Wooden Blocks. Occasionally we offer a particular program such as Lego Generations (passive, all ages Lego play) and Tween/Teen STEM programs, such as Minecraft. We are planning robotics for this summer.
5. We have Block Parties twice a month, one for families and one with local daycare. We also offer the Wee Build kits on demand and with scheduled programming. During the SRC we offer various STEM programming.
6. Our library hosts a monthly science book group for adults. We are planning additional programs around the upcoming solar eclipse. Our children's librarian hosts STEM programs for elementary age students. These programs touch on a variety of subjects, including biology, engineering, and technology.
7. Our library has just started exploring STEM programming.
8. We have passive programming with different blocks, some magnetic, and other science related toys. We have 2 story hours weekly where we use math and science themes. We have computer programs available for use. We always have early literacy programs going on..

9. Themed programs with legos and magna tiles are held each month. Children work on a specific project and then spend the rest of the time on designs that they enjoy. We have reading materials available for them to read and borrow.
10. We provide playscapes and block parties for our youngest patrons. These are provided weekly all year long both passively and with direction and structure. We offer 5year olds and older STEM programs in simple coding and robotics, this is provided by the volunteer. We buy programs from naturalists and we'll be providing several programs pertaining to the solar eclipse on August 21 of this year. We have applied for a NASA@My Library grant but have not yet heard.
11. We have Leap Pad. We have building blocks and such. We've used Bee Bot and circuit kits from District. I am a new director, so still getting a handle on all that we do.
12. We have monthly LEGO Robotics, LEGO Club, Block Party, and Minecraft Club.
13. Whenever possible, the youth services staff ties in STEM information and activities into their programming. For example, during pre-school storytime and after-school fun club, there are numerous opportunities embraced to expand the learning and activities by presenting "add-in" information about the subject matter. The topics of animals, plants, building, astronomy, etc. are always embraced as STEM opportunities for learning.
14. We have a 3D printer available, offered Virtual Reality Demos, have a monthly LEGO challenge, incorporate science in weekly K-6 programs and include multiple STEM programs in our summer reading program.
15. Relationship with Make717 (Lancaster Maker Space)
16. Lego Club, "Block" Party, Mystery Night, Science Exploration, Coloring, Train Table and "Learning Center". All seem self-explanatory.
17. We keep ours very unstructured and loose. Kids complain if it's too much like school!
18. We try to incorporate STEM principles into every program and activity.
19. Our "You Can Build It" is an open program we offer every Saturday afternoon for children to come in and build with Lego's. Come when you want and stay as long as you can is our motto. We do not hold it to just Lego's or to just Saturday afternoons. We have out other building sets as well for the children to use and have had children drop in after school to build.
20. Offering a variety of programs to introduce esp children and youth to various aspects of STEM
21. Lego Robotics. Two sessions per year, 10 classes per session.

22. Monthly Lego Club run by the Library for Children Monthly block party run by the Library for Pre-Schoolers Playaways with STEM apps that can be checked out Makey-Makey workshop
23. Instructive program for children and adults.
24. Maker March, a program we offer in March, revolves around robotics. It also has a theme and this year's is movement. This year we also started a science club for younger children where they built bird houses and bee hives among other things.
25. Use of simple objects such as building materials or making snow with baking soda/dishwashing liquid are a couple of examples. Fun while learning
26. Do to lack of funding we are unable to purchase our own STEM materials. We relied on the few items our district has available and mostly the materials that our School district STEM person provided. We do have building blocks and other building materials.
27. We have one-on-one computer classes for anyone who signs up. We have a weekly LEGO Crew for kids.
28. We are developing programming as best we can with a very small staff and a severely limited budget. Our goals for this year are to collaborate as much as possible to create even more STEM programming and we already have many initiatives in the works.
29. We offer monthly programs through the LEAP into Science Franklin Institute program. Also monthly Block Parties and Wee Build sessions
30. In addition to Science in the Summer, we offer various programs throughout the year. Our Cruise into Kindergarten features standards-based activities in math, science & engineering. Our storytimes for younger children feature some science and math. We also offer Bee-bots, Crazy 8s (math), Wee Build & Block Party, Mother Goose programs (VT Center for the Book), Rosie Revere's Construction Club, and Infomaniacs (informational text programming).
31. We have been adding electronic and engineering kits to our toy collection. We also host a weekly Lego Club for the kids every week.
32. Our contractor, a former library staff member and teacher, is presenting coding programs using the STEM materials provided to Districts in 2016. More programs will be created as long as local grant money allows.
33. We have "Genius Hour" for middle school and high school student 2x a month. Each session explores a different STEM topic -- coding, robotics, electric circuits, 3D printing, etc. We do STEM for elementary students as part of our summer reading programs.

34. We have been actively trying to provide more STEM opportunities for the community we serve.
35. We offer both passive and programming, as well as structured STEM activities for school-aged children. The structured programming is maker-oriented and takes place after school.
36. We concentrate on engineering using Legos and other building materials, and we concentrate on science with "silly science experiments" as well as "harder science." We have volunteers in the fields of engineering and science coming into the library (not every session) and they work with the kids on more complicated science experiments as well as on concepts such as robotics.
37. We offer a weekly STEAM program for children of all ages. This could include art activities, coding, engineering, or science experiments. We have a Makerspace table at the library available for all patrons. Adults have a once a month Crafternoon program.
38. In the past year, we have had monthly STEM programs geared for preschoolers & 1st grade outreach based on engineering tasks related to "Fairy Tale Science". We are planning to develop this program for elementary children this summer. We host LEGO Club for elementary students each month, and just received blocks to offer monthly Block Parties for 2 - 6 year olds. We also host a few one time science programs during the summer, and have offered a week long "Science in the Summer" for the past several years. Adult STEM programming mainly focuses on technology classes, such as basic computer classes for small groups of adults and special needs groups as well as individual sessions as requested.
39. We have both active and passive STEM programs designed by librarians in the library. We have conducted preschool STEM series, K-2 STEM programs, and LeboLab science camps for 3-5th graders. We have also hired professionals to conduct special coding classes.
40. We have supported build programs such as an "Egg Drop" and bridge building, tech programs like "Gamestar Mechanic", and science programs such as "Water Science" and "Constellation Lanterns". Programs are geared to elementary and middle school students, some of which take place in the schools themselves.
41. Lego night-design challenges Stem challenges using paper cups (games) etc. Marble maze creations
42. Both members of Youth Services conduct STEM program for children 5-13 yrs of age

43. We offer a monthly SMART Kids program, focusing on different topics such as airplane science, food science, engineering and STEM-based art. We also include a STEM activity into our preschool storytime on a weekly basis.
44. We have weekly storytimes that are STEM based, a K-2 science club that meets once a month, a 3-5 engineering club that meets once a month, a family STEM program meeting once a month. During the summer we have a Family Science Olympiad, STEAM Wednesdays, and a STEM/Maker program on Thursdays. We also do STEM outreach to the schools--after-school programs and assemblies.
45. We offer Math Mites for our preschool students, Crazy 8's Math Club for our Elementary School students, Hands On Science with Science Flix for elementary school students.
46. hands on activities and experiments usually in station format for elementary students and their families are offered monthly.
47. Satisfactory, but always room for improvement. Need to focus on all ages.
48. We used to offer a coding club for upper elementary and middle schoolers, but attendance waned after about a year. We currently offer Block Parties for children age 3-6 every month, and also hosted a presentation on physics through Mad Science Pittsburgh for elementary kids. Our local school district was just accepted into a maker program, so we are hopeful that we can do more with them in the future.
49. We offer Super Science kits for grades preK-12; Labs programming on a daily basis for teens grades 6-12; and a wide menu of STEM programs occurring on a frequent basis throughout our 19 Libraries, and at our outreach sites.
50. use of CLP Super science kits. Bedtime Math program, mother goose on the loose, and programs made up about science topics
51. Computer and digital literacy for adults, especially older adults. Building and science programs for 3-17 year olds. Maker programming for elementary age.
52. Programs of interest to children that use STEM to entertain and educate.
53. Our Library tries to offer a monthly STEM program (more often in the summer time) by utilizing CLP's Super Science kits, ACLA's kits, and bringing in outside presenters.
54. We hold training classes on the use of our 3D printer. We have also recently held homeschool labs with a math and science basis, as well as programs using tech toys such as littleBits.

55. We have fun programs such as "engineer your own marble run" and many other STEM program for our after school programs. We have an after school program in our library and a neighboring town which is in a school.
56. We provide technology programs, landscape design, fiber arts, and other programs (such as a vinyl program) for adults. For children we include engineering design components to many programs for a range of ages, a Fall STEAM preschooler program, summer math programs, coding programs, a Maker Space for tweens and teens, photography programs, and many more.
57. Our library's STEM programming continues to broaden to reach a larger audience and underserved communities. Every month, STEM programming focusing on math, science, and engineering are hosted in our Children's Library. We have just begun to reach an adult audience with a 3D printer we received through a grant.
58. We have an ongoing partnership with Saint Francis University's Science Outreach Center and its director, Dr. Lanika Ruzhitskaya. The program meets once a month and is called "Cosmic Treats" because we treat our minds and our taste buds to science learning and snacks! We also celebrate Engineering Week and Brain Awareness Week with special guests from local colleges and from our local engineering concern, which has an educational outreach committee. We partner with our in-house Girl Scout troop which meets at our library once a week, with special guests, some of whom cover STEM related topics for the girls. We also shared passive programming via Facebook for Teen Tech Week.
59. Science programs, Lego, magnets, blocks, engineering-based activities.
60. We have STEM programs of varying types for preschoolers through adults. We have preschoolers using both high and low tech objects and have been working with a company to offer a robot storytime. We have construction, mathematics, and general science programs for school-aged kids, and programming and tech programs for teens. For adults we have lectures on sustainability, design, and blacksmithing to name a few.
61. We try to make learning fun and interesting. We try to offer programs the school wishes they could, but might not have to resources to do so.
62. We have building blocks and other building materials on display for children to use when in the library.
63. Baby Einstein (science) and Baby Rembrandt (design and art) for preschoolers; Crazy 8's Math for 3rd-5th grade, Robotics (technology) for preschool - 5th grade, sewing classes (technology, design, math) for ages 8-13, Block Party (design) for preschoolers.

64. Junior Engineers, a monthly program for school aged children that features a challenge to build or create something different each time. Block Parties, weekly building programs for preschoolers. Lego Club, a monthly building program for school aged children. Technology classes for adults as well as one-on-one training.
65. We have a range of different activities throughout the year that include many STEM related topics. For example, we had an astronomy night, ScienceTellers, and Tie-dyeing on different days last year.
66. Rudimentary and poorly planned
67. A wide variety of programming from coding to keva planks to maker to food science is offered after school, during the summer, on week-ends, and during school breaks. There are various clubs in neighborhood libraries including: Lego Clubs Spy Clubs and Minecraft Clubs.
68. Lego Challenge
69. Our library has performed STEM programs for Pre-K, elementary and high school students. Some of the specific programs have included science experiments, robotics, block play, and snap circuits. They are hugely popular with are patrons.
70. We offer preschool stem programs featuring math, chemistry, and biology, and passive programming using Magna -tiles and tumble tree timber building logs. During the summer we participate in Science in the Summer sponsored by the Franklin Institute in Philadelphia. Mad Science of New Jersey presents a program every summer at the Library.
71. building clubs and challenges, rubix club, mad science programs, science for girls, gsk science in the summer
72. We offer a series of STEM activities for school-age children once every season, called S.M.Art Kids (Science, Math, and the Arts). We lead a monthly outreach STEM storytime for preschoolers. We have offered several STEM-related programs/workshops for middle-schoolers and teens, including 3D printing, coding, robotics, etc.
73. Most of our STEM programming is in some way hands-on. We often introduce a concept with a book and then allow the kids to do hands on activities related to the particular concept.
74. We offer monthly family building programs for preschool and elementary school children, robotics and computer coding programs for tweens and young adults, Science in the Summer classes (past topics included biology, chemistry, physical science and electricity, oceanography and simple machines) for elementary school

children, programs combining science and art programs for elementary school children, and digital literacy/technology classes for adults of all ages.

75. Lego and Lego-like blocks will periodically be made available on tables in our children's room, along with displays of books, DVDs and magazines featuring building and construction themes.
76. We offer a monthly STEM club for elementary aged students, a monthly LEGO club for all ages, and we have a monthly preschool block party for preschoolers. We also have STEM special events such as 3-D printer demonstrations, STEM craft programs, and we have two or three paid STEM performers a year.
77. Mostly building/engineering for younger children, also the LEAP into Science program, and Science in the Summer
78. Watershed and environmental gardening workshops for adults Lego Club for elementary school
79. We use STEM programming a lot with our Home school programs and Teen programs. We have also set up STEM Saturdays for pre-school to elementary age children.
80. We offer weekly LEGO clubs, and monthly "Block Parties" (engendering), we offer a monthly Home School Meet up with various STEM activities, we offer "Robot Lab" (coding) and "Maker Space" (tech) several times throughout the year, and are starting a weekly "Pop up Science" program to illustrate science experiments while there are kids in the library (not a specifically timed program).
81. We received an LSTA grant in 2014 to set up a STEAM Lab. We host, on average, 20 STEAM programs a month for patrons of all ages.
82. LEGOs, wooden blocks, book clubs with cooking, coding, Science in the Summer programs with GSK
83. The Library provides building block and coding challenges for kids, ecology and nature programs for kids and adults, plus technology themed assistance and programs.
84. Science on the Road in summer; block and lego programs; music programs; device training; computer classes; craft and art programs
85. The library's STEM programs are primarily based on engineering--building and construction; I plan on expanding more into technology.
86. Lego Club, monthly art classes, architecture programs, monthly STEAM programming for pre-K (Head Start) classes, occasional STEAM programming for elementary school children. We focus on small experiments, forming hypotheses, using scientific method, etc.

87. We teach "crazy 8's" and have many different building materials.
88. Informative, educational, hands-on, and fun
89. We have wee build materials available all the time for self directed learning; a Lego program once a month; and a rotating interactive exhibit from the Discovery Space each month.
90. The Junior Room staff seeks to develop and produce STEM programming. We offer passive programming like the Cruise into Kindergarten program, Science shows during the summer and our own developed by staff.
91. We have educational computer games, as well as xbox game night that uses the connect. We have board game Saturdays as well as knit and stitch teaching and learning groups. We have simple science experiments that can be done in the library as well as many hands on counting and sorting activities. We offer computer classes and internet classes. There is a puzzle set up in the library that anyone can sit and help put together. There are many other building blocks and hands on activities that can be utilized in the library with appropriate interactive question and answer cards as well as parent suggestion cards for interaction play.
92. Our main program is STEAM Saturday, in which we do science experiments following the Scientific Method one Saturday each month.
93. Our primary STEAM programming is our Bright Builders club for elementary aged kids. We meet monthly and build with LEGO or other materials to solve a given problem, or tell a specific type of story (build bridges, robots, boats, etc).
94. We have a builders club every month, where children ages 3-12 come and use legos, duplos etc. The blocks used are part of the block grant from the state. We have also built and programmed a VEX bot with the teens. We have some Raspberry Pi, Makey Makey, and Etextile kits, but haven't used them yet.
95. A large portion of our children's programming is STEM related. We do building/block programs from toddlers, and Lego and other building programs for elementary-aged students. Other STEM activities we have done are workshops where kids learn robotics, classifying objects, weighting/measuring/comparing masses, paper folding/geometry, etc. Often the kids use iPads to assist them in their projects.
96. It is an integrated program that incorporates reading, science/engineering, math and art. The children do hands-on activities that relate to the story which was read and build objects or create projects that require them to solve a problem. For example, they might listen to a story about dragons and then create a castle which the dragons are to protect. They are also asked to describe how the castle works and explain why they chose to use certain materials.

97. Our STEM programming is based mostly around the WeeBuild programming grant and ties in nicely with all of our other Kindergarten readiness programs.
98. We use Franklin Institute's Leap Into Science and develop our own preschool storytime based on science topics and experiments.
99. We are always trying to increase STEM programming, or more specifically STEAM as we feel the arts are just as critical to providing a full, well rounded education. We tend to focus more heavily on k-12, but do occasionally try to include adult programming. Funding is crucial, as it's difficult to provide these kinds of programming without more funding and support. I'll be getting a traveling stem grant exhibit early in 2018, which will allow our library to provide far more stem programs than we could do on our own.
100. We do weekly building programs (Legos, some Keva), Hour of Code for kids (Mainly in December), Tech Thursdays for adults, Wee Build & Wee Build Too (preschool and school age), Mad Science K-3
101. 1. Technology - computer software coaching; electronic device (e-reader, smart phone, tablet, etc.) technical help, training. 2. Engineering - hands-on blocks construction play time, Legos build activity. 3. Mathematics - passive activity - book list, display.
102. We offer classes for adults/seniors on mobile devices and eReaders, 1:1 tech training appointments for seniors/adults, 3D printing classes for all ages, robotic and engineering programs for children and teens. Most of these programs are offered on site and have instructors from Penn State University, The Make Space, or other community volunteers. However, library staff is learning about 3D printing and robotic programming to offer them ourselves. For the past two years we have partnered with PSU and other community organizations to have "Maker Week" which featured several days of STEM/STEAM programming.
103. We hold monthly programs open to ages 8+ featuring some tech tools we have. We also host Technigirlz, an initiative to promote tech careers to middle school girls.
104. We have blocks, magnetic tiles, Lincoln logs and creative train board that are introduced to parents and children when they come to the library.
105. Blocks, toys, Legos
106. Currently we offer Lego Club for preschool age and occasionally we have special Lego programs.
107. Lego Club, Coding club, and science in the kitchen
108. We have Science Club and Lego Club on a weekly basis. We also have Build and Play on a weekly basis.

109. One time 3-D printing presentation; Building Club with Lego, Magna Tiles, and Lincoln Logs that meets once a Month; Science in the Summer, a 4 day science camp
110. Activities focused on learning through play, creating, and exploring.
111. Currently it is one day a week...in summer it will increase to 3-4 days a week. Our area is a low income area and declining population due to no jobs....
112. Our STEM programming is growing. We have added a teen and adult librarian to continue to grow our programs. We are also adding a stem lab in 2017.
113. We offer science in the summer for school aged children, legos for teens and tweens, technology for adults and older adults
114. I've created a monthly STEAM Saturday program for kids ages 8-12. So far we've focused on engineering and physics. I hope to try something new each month and maybe have a speaker--I know a chemistry professor who has worked with elementary students before I think she would be good with them. I also like to include a theme of gender equality to empower girls and boys alike to be creative critical thinkers.
115. STEM is incorporated into every conducted preschool storytime
116. We have wooden blocks, Legos, Magnatiles, etc. that we have used for programming--they've been very well received.
117. Block Party
118. We have offered several science and math related programs through the SRCs over the years. We offer computer and device classes on a regular basis. The children's and literacy departments offer Lego clubs, building blocks, Scratch Jr. Coding camps, and other engineering, mathematics, and technology opportunities.
119. We offer LEGO Club once a month, hold block parties, incorporate science into preschool storytimes and crafts, offer coding programs involving Raspberry Pis and Sphero robots 3-D printing programs.
120. We offer Science Club once per month, year-round. We bring the Franklin Institute's Traveling Exhibit to our library one time per year. We have had 3D printing instruction and availability for patron use for all ages available since September 2015 (first in our county to have one at a public library). We host Build Nights one time per month and will be hosting them weekly during Summer Reading-Learning 2017.
121. We use robotics to teach kids about coding
122. We offer a weekly STEM program for youth that incorporates each part of STEM. Currently, we are participating in a team LEGO challenge with other libraries and

local schools. We offer Annual Hour of Code programs and Summer Maker Camps for youth. A youth organization visits monthly to utilize our equipment and put on a STEM program. STEM equipment is made available for checkout to all ages and local community groups.

123. The library provides regular block building and sensory activities for preschool aged children. For Elementary aged children, public Lego Clubs gather weekly, in addition to school district field trips which feature Lego activities. Programs such as Lego Robotics, Leap into Science & Lego Story Starters are also provided for Elementary aged children. Middle school and High school ages are targeted through "teen tech" activities, which recently featured a hydrogen fuel celled car building activity. Adults are offered computer classes and one-on-one assistance with tablets and devices. All ages are welcome to use the library's Creation Lab which features a 3d printer.
124. Robotics; various programs during summer reading.
125. Personal tutor helps senior citizens with electronic devices; SPECK monitors, block parties; Legos classes, programs on gardening, insects, archeology
126. Snap Circuits; Scratch Programming, 3D Printing; Legos/Duplos;
127. We provide Backpack Adventure Kits that have STEM activities in them, a MathStart collection that includes a math-conceptual book with coordinating manipulatives and activities. We offer STEM time story hour - we do lots and lots and lots with STEM! Come see us!
128. As the Children's Librarian, I primarily offer programs such as Block Parties, and Build It Up, Take It Down programs that utilize Lego's, Lincoln Logs and Magna-Tiles.
129. Monthly block parties (ages 2-6). Monthly LEGO building free play (ages 4-12). Also, we often include science concepts in our weekly preschool storytimes and the crafts following storytime. In the summer we usually have a couple of entertainers/presenters that provide a program related to science for ages 5-12. Also, I'm not sure if this is applicable, but we do offer one on one help with devices and basic help with computer programs.
130. Passive and active programming using LEGOs, Magnatiles, and other building items. Several program involving computer coding, chemistry experiments, etc.
131. We use crazy 8's for math and we borrow STEM materials from the district to put out for kids to explore. The math is directed and the materials are exploratory with guidance.
132. Our library uses the state-provided WeeBuild, Block Party and PlayK equipment for young children STEM programs. We use our library's and library system's

equipment for older youth programs. Adults bring in their devices to talk to our "tech guru" to receive help in using them.

133. We use Bedtime Math's Crazy 8s program weekly for children in Kindergarten, 1st, and 2nd grades. We also offer free play time throughout the day using KEVA planks, lincoln logs, and legos
134. In our children's department we try to offer monthly block play for preschoolers, and we offer LEGOS and other building toys to be played with anytime the library is open. Our afterschool program incorporates STEM at least once a month. We offer adult programs on a variety of topics monthly or bi-monthly. This sometimes includes practical STEM topics like Pet Health and Nutrition.
135. STEM activities take place in a variety of weekly programs. Some STEM activities have been: wooden blocks, Magnatiles, Lincoln Logs, Legos, making slime, making rubber bouncy balls, making multimedia videos, coding, Robot Run, building giant Jenga, sink or float, magnet play, etc...
136. We currently offer a program based around legos, magnatiles, and other building elements for grade school students. We offer a teen science program with 3D printing equipment for high school students. In the past we've offered, simple machine building and science experiments.
137. Crazy 8s afterschool math club, Block Party- building/engineering, LEAP into Science- Franklin Institute Initiative, Science of Magic, and Digging for Dinosaurs
138. Currently provide building materials, Legos, Duplo, Lincoln logs, wooden blocks and magnetic tiles.
139. We offer a monthly Science/ Engineering program during the school year for children in grades 1-4. Last month we offered an Astronomy program working with local astronomers. Each summer we have the Science in the Summer Program for school-aged children. We are doing LEAP into Science this year for kids ages 3-10 and we offer Crazy 8's math Club from the Bedtime Math Foundation, which targets children in grades K-2. For teens we are doing this year a Robotics themed book discussion group and we will be working hands on with LEGO Mindstorm Robotics Kits. For adults we rent out Hotspots and we hold one on one technology help.
140. STEM topics are woven into any program that is appropriate.
141. Regular inclusion in approx. 50% of our preK programming, provided weekly. After school programming, generally once a week, is a maker/coding workshop for kids ages 6-12.
142. KEVA Planks, LEGO club, LEGO EV3 Robotics, programming using a wide variety of programs, pop-up programs with Dash & Dot and Little Bits, Girls Who Code

143. We have created mini robots, celebrated "Hour of Code" in Dec.; Engineers Week in Feb.; done experiments with snow & ice for our Winter Reading Club, as well as created slime, play doh, bubbles, & many other fun experiments.
144. Our STEM programs are geared primarily for Pre-K and Kindergarten. I incorporate the themes of Science, Technology, Engineering and Math with less focus on Technology because most children have access to iPads etc. Each month we have a special STEM program, but the subject matter is introduced whenever applicable which translates into many times during each program.
145. Construction Zone: Legos Unit Blocks Wee Build materials
146. Have wooden and foam blocks on a shelf that children can play with when they come in.
147. We seek grants to pay for special programs that run for a set amount of time. We've offered STEM programs in the summer as well as after school.
148. All of our STEM programs are grant funded, so that is the majority of the programming that we do at this library. Much of it is done in collaboration with a local makerspace
149. For preschoolers, weekly block parties, lego sessions for various ages, Monday Fundays for preschoolers. Hire Box of Light Studios to conduct a variety of classes, including robotics, Lego animation, clay animation, Minecraft, Scratch programming, etc
150. Our STEAM program offers something for everyone, from 3D printing & carving to robotics & coding to music and video creation. We offer a safe and fun environment for people of all ages to get creative and learn something new even if you are not a techie.
151. we have a program called "Danger Club" held after school and during SRC, the staff member who had started program moved into another position at another Library; our children services coordinator has currently picked this program for now.
152. We have a Lego building club available, also an engineering series, and are developing gardening programs
153. Each month I concentrate on 1 topic and develop activities to go along with it.
154. using State Library grant supplies items in both active and passive programs
155. We offer both guided and passive STEM programming. The majority of our adult programs would focus on Technology. We try to incorporate STEM themes into all of our programming. For Example: Our teen program that teaches teens how to prepare basic meals at home also stresses measurement, reading labels and

calculating serving size and price per serving, reading labels, determining the % of vitamins and minerals the food provides and discusses ways to get the other needed nutrients. Story times programs birth- school age always feature building activities, counting, non fiction books and many introduce children and their families to appropriate use of technology.

156. older students did robotics this winter. this spring they are doing Aeronautics, this summer they will build rockets. Our LEGO Club also meets regularly and we have messy science for the littlest ones. we also have building toys in the library and special story times for families when we bring out the big building toys.
157. We received a grant for a "Maker Monday" program, and some of our monthly topics include robots, duct tape wallets, legos, parachute/flying. We also do an hour of code once a year with a retired computer teacher. We work with the local public television station to provide their stem activities, usually centered around coding.
158. Block parties open to the public.
159. Block programs for preschool, Tech tutoring for adults, and 3-D printing for teens.
160. Working with training from our districts math and science collaborative to include STEM in many programs
161. We have a Traveling STEM Lab with technological materials that we share with the school district. Right now we've focused on our Bee Bots in the school and in the library. We also have Keva Planks and Block Party Grant Materials. We offer occasional Lego Clubs and hope to add more STEM programming in the summer. We also participate in Science in the Summer.
162. focused on learning outcomes, physical manipulatives for the children to explore with. Some projects are self directed, others group instruction
163. Design and Tinker Maker Mondays, Scratch Programming. After School program with Trails Ministries on STEM Concepts and the Arts
164. We offer STEM programs for all ages including LEGO Club and Minecraft for children, Math & Science Club for children, and computer instruction for adults.
165. STEAM Saturday - monthly event aimed at school age students but anyone can participate. Wee Build - block play incorporated into Preschool story hour. Tech and Computer classes - opportunities for adults to learn more about what they need to know.
166. Weekly gadget club, monthly Lego/building block club. Three different age groups for building. Gadget club open to 10years old thru infinity

167. We have a weekly "Gadget Club" meeting for ages 10 and older where participants explore an assortment of activities, including electronics, computer coding, robotics, building toys and more.
168. We wanted to reach out and provide programming for young people in our community so we started a Legos group in the fall. We try to promote it through the school and the local newspaper.
169. Several stations are set out around the room featuring different activities: robotics, keva planks, circuits, simple machines, to name a few. Each station is manned by a college student. Library staff circulates to make sure all is well and to answer any questions.
170. Staff have attended multiple STEM workshops and have brought back program ideas and have implemented programs for many age levels.
171. Youth ages 5-18 let their imaginations run wild with Legos, twice a month at our Lego Club, the library staff presents the youth with material on design to spark ideas. At the end of each session, creations are displayed throughout the library. Once a month, youth ages 12-18 participate in Gaming Night, a program where they can play video games and discuss coding with those video games and other video games. Gaming Night offers youth a means to explore avenues to higher education. Youth ages 12-18 attend E-Reader and other device help once a month, if they need assistance with operating, or downloading an application. This program allows youth to understand the ins and outs of their devices.
172. We had some ecology programs during the SRP
173. We hold robotic club and event regularly.
174. Weekly Wee Build activity station for preschoolers; integration of STEAM activities into Story Time and other programs; Weekly STEAM Rollers Club for ages 5-8 and STEAM Team Club for ages 9-12; one-off programs throughout the year for various target age groups; STEAM Team, Junior Robotics, and Robotics and Electronics Summer Camps - in 2016 they targeted ages 5-12. In 2017, we will be expanding to offer Personal Enrichment Workshops in STEM for people of all ages and STEAM summer camps targeting ages 5-19. 2017 Summer Camps include: eTextiles, Piper Computer Hardware Crafting, Electronics and Robotics, Money Smart Teens, and Comic Creator Camp (featuring Legos, stop motion animation, video editing, etc.). 2107 has also introduced monthly block parties for preschoolers.
175. Varied and focused in building, problem solving and critical thinking. We have limited technology devices/equipment for STEM programming.

176. As grants become available, we use them to expand such programming, or where an outside group can come in for free. Parents of young kids are most interested in these programs. Most teens in our area get a very thorough approach in the school district. Adults are more interested in art and literature programs.
177. We try to have STEM mixed into our regular programming but have also had specific programs (Leap into Science) for STEM. I have to be honest, it's not my favorite initiative because SO many places are doing STEM work now (daycares, summer schools, regular school, etc) that I mostly focus on working in STEM things to programs like storytimes, book clubs, summer reading, etc.
178. While working with a local expert (local school district STEM instructor) library staff is able to develop a more rounded program with additional resources. Robotics, Circuits, and more are set up open house style with support of staff.
179. 3D printing, robotics, legos, adult crafting
180. LEGO Building nights, Block Building night, including large blocks, magna tiles, Timber Logs and accessories. Adult digital literacy, including e-reader classes, beginning computer classes.
181. We use blocks from the Block Party grant as well as other blocks and materials. We purchased several kits from stores that we use as well. We had a group from outside come in to do coding and will have them back. I plan to do a lot more STEM programming in the summer.
182. Using lego bricks, students from the local elementary school join together at Lego Club to plan, build, name & display their creations.
183. We have youth that really enjoyed our Snap Circuits program with the kits provided to our District. Youth have also built Lego cars in one of our recent programs and stayed to keep working on them. We provide Legos on our library floor and had to purchase a Lego table that is being well used. We incorporate STEM in very basic ways for programs as we are able.
184. For adults, weekly computer classes. For youth, science experiments, STEM construction materials, and intro to coding using Hour of Code on code.org.
185. We work with the engineering students from a local college and build with lego bricks. We have some other building toys that we create and solve word/math problems.
186. Lego Robotics were purchased by LSTA grant in 2015 for Lock Haven and local grants in 2016 for Beech Creek and Renovo. Over 55 youth ages 8-16 participated.
187. We are just beginning to incorporate STEM into our library programming and are planning to offer more and more.

188. Children: Science in the Summer program for those entering Grades 2-6. Coding class using floor robots, Grades 1-3. Preschool nature classes. Preschool science classes and LEGO programs in summer. Volunteer offers math classes. Adult classes in computer literacy.
189. At Murrysville Community Library we are bridging academic semesters with Summer Reading Club programming that follows PA Common Core State Standards in Mathematics and English Language Arts and Next Generation Science Standards, which we have been piloting since 2014; embedding STEM learning into programming at all ages, as part of the 2014 pilot, which we have done with STORYTIME STEM-packsä, a product of our principal collaborator, the Allegheny Intermediate Unit Math & Science Collaborative; working closely with the Franklin Regional School District to make standards-based learning a year-round experience, as with the Hands-on STEM program being presented at MCL by FRSD's Science Like a Girl Club; planning events for the upcoming 2017 Total Solar Eclipse, and offering Pushing the Limits STEM book discussions for adults.
190. We used to offer a monthly preschool STEM program that was well attended but due to staffing cutbacks we had to cancel that. Now we offer bi-monthly elementary STEM programs on popular topics.
191. Once a month we have a program called Cosmic Treats presented by Saint Francis Science Outreach Center. The talks are about astronomy, biology, the universe, etc.
192. In Youth Services: coding, STEM activities such as legos, building blocks, etc, science based programs on ecology and natural history. For adults: computer classes
193. We offer STEM programming for teens/tweens - Cubelets, Keva Planks, Snap Circuits; for pre-K - MangeTiles are out for play; monthly Lego evenings for 5-8 yr olds, and for 8+
194. The main library has weekly STEAM programs with various topics aimed for kids 6-11. Branches have monthly programs with topics mirroring that of the main library.
195. We have offered coding programs and we run a weekly lego and Kynex building program.
196. It is in its early stages but has met with so much success due to the incredible amount of free manipulatives and sets from Cruise into Kindergarten. We could not do half of what we've done without it.
197. We do building and engineering programs primarily but have also had astronomy and other science programs.

198. We have offered computer courses for adults (most recently a workshop on Ancestry.com Library edition in fall of 2016), have had three sessions of Lego Robotics (summer 2016, fall 2016, and winter 2017), have a monthly Lego Club, and do occasional science themed family fun events--on March 25th, we are offering a program on moon rocks in partnership with a local private school that has the rocks on loan from NASA.
199. We offer STEM programs for little ones through our block programs which are offered several times throughout the month and also to local HeadStart that visits the library monthly. We recently offered a Crazy 8's math program for elementary students that ran for several weeks this fall. In addition, we offer a Science Saturday monthly that touches on a variety of different STEM topics and often utilizes kits that are provided through out District Library Center. Science Saturdays are geared toward 6-12 years of age. We also have a regular summer program for children called, "How Does Your Garden Grow" that gets them outside learning about gardening. Once a year, for the final summer reading program, we bring in the ScienceTellers who provide unique science-based programs for families. This is geared toward all ages.
200. We offer weekly programming for children birth-12. We offer a combination of passive and active programs.
201. Most of our STEM programs are for our kids with story hours, but we do offer all the time Keva planks work stations and we have STEM programs on the AWE Literacy Stations that are always available for the kids. We offer occasional programs for adults - summer time "biology" or "environmental" with the PSU Extension, and we used to offer computer classes but no one would come. We do intensive consults with people as needed for computer help/literacy. We also have a Keva Plank station for adults which is used as much as the kids, and we have puzzle and chess/checkers tables for spontaneous use. We also have a Rosetta Stone Language Lab in the library that is always available. Not entirely stem, but almost.... Our YA library offers a coding class for teens. We are looking into developing more STEM offerings, but are on our way for a number of years.
202. We make use of the STEM kits & games provided to the District youth service librarians by Susan Pannebaker. Some of the libraries have Block Party or Wee Build and Play K supplies, and 2 locations are participating in Leap into Science Family STEM programming.
203. We have an occasional Lego program on the weekend; we also participate for one week of Science in the Summer
204. We have STEM activities in the children's area that changes every few weeks.

205. Our youth programming is more scheduled and uses educational guidelines; however our adult programs are more hodgepodge based on what people are willing to volunteer.
206. The Library offers classes for adult in 3D printing and the use of Tinkercad. The Library offers classes for children (preschool - middle school) on coding, engineering, and 3D printing. Classes for adults are one-time. Classes for children are typically a 4-week session.
207. We offer regular Math story times, Young Explorers Club (science based for K - 3), Bee Bots and Snap Circuits in our children's department. We will soon add Cubelets and Littlebits to the rotation. Our adult department has classes on MS Office software, using devices(tablets), and by appointment computer training. We also had a 3D printing demonstration for all ages that had Prek - seniors attend.
208. We have Lego Club and Leap into STEM at our library.
209. System-wide there are Lego and other building programs for children. There are digital literacy one-on-one customized sessions for adult. There are also occasional financial literacy programs.
210. We have block parties and K'nex programs monthly. During the summer we have science and technology programs.
211. We are geared towards offering STEM programs to k-5.
212. Science -- astronomy; Technology -- robotics activities; Engineering -- building blocks.
213. Youth Services - STEAM concepts incorporated into storytime programs. Monthly STEAM workshops held for students in grades K-2 and 3-5. Participates in LEAP Into Science program - offers monthly science workshops using that curriculum. 1-2 times per years offer Crazy 8 Math program (bedtimemath.com) for grades K-5. Monthly Creation Station process art workshop open to families. Special one-time programs offered on occasion to cover variety of STEAM topics. Teens - quarterly maker-type programs offered. Adults - monthly passive maker/craft programs offered. Recently acquired a 3D printer - offered a 2-part training session to the public.
214. We offer STEM programming every Thursday to K-5 students. Every week has a theme.
215. Legos, 3D printers, video games, math, problem solving, science, etc. Things that are fun and easy to pull off yet still give the library patron a good learning experience.
216. Both active and passive programs are provided at various times throughout the day and evening in order to target the maximum age groups. Adults do work with

kids, but the programs aren't tailored to adults, but that's a great idea for future programming.

217. In our monthly STEM program, we explore STEM topics through science experiments, demonstrations, engineering competitions and more. We also incorporate STEM elements in our weekly programs for preschoolers through teens. For example, we've held computer programming classes for teens in 7th through 12th grade at a computer lab on Shippensburg University's campus. For preschool Storytime, we've explored addition and subtraction with stories and goldfish crackers, conducted experiments to explore weather concepts, and planted wildflower seeds.
218. The library offers one-on-one electronic device and/or computer use training for adults. Children have access to passive programming using Duplos frequently and block parties monthly.
219. We present events that encourage the community to use computers. We gear many of our storytimes to STEM, as well as our Book Explorers and Book Adventurers events. We have the Lehigh County Conservation District Liaison presenting "Buckets of Nature" monthly. SRC always has a science component, as well as building and health.
220. I do a great deal of open play allowing the kids to "let the items talk to them". We use Magna Tiles, Lincoln Logs, Counting Blocks.
221. Very robust
222. The Children's and Youth Division has developed programs for children of all ages to experience STEM opportunities using everything from blocks to coding on computers. Parents and other adults are encouraged to investigate the possibilities with their children. We offer hands on building materials, "Gils who Code" , FIRST Lego Team (robotics), a general lego club, gaming, and more. Getting more adults and teens involved is a current goal.

STEM Equipment Description

1. We purchased \$3000 worth of STEM equipment using the LSTA grant, all accessible to the public. The library plans programming around the STEM equipment, including passive programming that encourages independent thinking and creativity. Each time STEM kits are used, a report is completed by staff.
2. 3D printer is available. Little Bits, Raspberry Pi, Arduino, etc are occasionally used for drop-in programs and weekly school-age programs.
3. A large collection of Legos and othe building toys that we put in our meeting room for children and their parents to use.

4. All equipment (previously checked) is used in library programs; it does not circulate to the public.
5. All equipment is mainly used around programming. The 3D printer is available for training by staff or use by patrons already trained with a 24 hour notice period.
6. All STEM equipment is either used through hands-on active programming formats or passive programming formats.
7. As part of the New Castle District we borrow STEM kits for use in our programs. The library also owns Ozobots, iPads with STEM apps, and other various STEM equipment. Mostly it is just put out and the kids "sandbox" with the equipment.
8. At one of the talks, the children got their own spectrometer to examine different elements that were placed into a light. Each month has a different topic and are all enhanced by hands on activities and trivia contests.
9. At this point most of it is passive programming and not for check out. We use it for programs and family nights. Our hope is to be able to have some for check out in the near future.
10. available for use when library is open
11. Backpack Adventure Kits, Cruise into Kindergarten blocks and activities, Snap Circuit programs, STEM time story kits, Legos, Lego building classes - lots!
12. Block Parties are successful with monthly scheduled visits from local preschools. We offer passive programs with Lego's, Lincoln Logs and Magna-Tiles. Our district consultant obtained a STEM grant and purchased many items such as 3D printers, which have been checked out by other libraries in our district.
13. Block Party equipment, LEGOs and DUPLOs, Wee Build set of toys: mostly utilized for free play or gentle facilitation provided by staff to include a building of vocabulary.
14. Block, Legos, K'nex, and other building kits can be used daily in the Library. We have special programs where the public can use robotics, microscopes, and other science related products.
15. Blocks are used by all ages, coding books by elementary and middle school, experiments in physics, chemistry, and biology by all youth.
16. Blocks for children are available at all times. Special building programs are offered for older children. Magnifiers, magnets, etc are offered during programs. 3D printer available for public to use.
17. Blocks, Legos, magnetic tiles are used in after school programming for middle school students. Blocks and Legos are available at all times for small children to explore.

18. Blocks, toys
19. Building blocks, Lincoln Logs, Legos and Magna-Tiles are available. In addition we have our regular public computers that are available for all ages, in addition to Ipads with Apps
20. Building materials are always available for children to use.
21. Building materials are always displayed and changed monthly.
22. Children play with all displayed toys.
23. Construction toys, LEGOS, blocks are used to provide evening programs tied to literacy. Theme-related stories are read, or played via BookFLIX, and following a discussion, children are able to build a project related to the theme. Free building nights are also held, where the items are available for use.
24. Currently most of the equipment is only used during programming. The building blocks are part of the Wee Build Grant and are available to patrons at all times.
25. Currently, the majority of STEM equipment is only used with library staff supervision, mostly during scheduled in-library and outreach programs. However, we have checked STEM equipment out to other libraries in our System for them to use in offering outreach programs. We also have a collection of STEM toys that are available for in-library check out upon request as well as stations that are set up in the library during open hours. We are working to build our STEAM volunteer and staff team and curriculum and hope to be ready to launch a littleBits Global Chapter and pop-up Maker Space by 2018.
26. District Kits; Legos; & the original Math & Science kits from Susan Pannebaker's workshop many years ago
27. Equipment is available for use in the library and at special programs
28. Equipment was borrowed from District Library ILL, personal items from staff and local teacher.
29. free play
30. housed in an Explore to Learn Center. Most can be used independently
31. In addition to Gadget Club equipment, we have two Alienware desktops for youth to do gaming & video editing.
32. In programs and in adventure packs that can be checked out. These include handheld devices, instructions, related books, and a journal that is shared with the next patron so everyone can log their experiences.
33. in structured, supervised programs

34. In the past we've provided the Dash and Dots robots for a program but have yet to buy our own to keep. We are hoping to raise money for them though because they were a huge hit. We also have three AWE station computers with lots of games that kids can use anytime. To date STEAM Saturday has focused on using a certain set of found materials to build an object which solves a problem. We did a bridge building activity and also a zip line carrier that held a ping pong ball. The library also offers regular computers at all times.
35. Independent play and play during storytime programs; Block Parties
36. It is used for the kids to explore and build
37. It's self directed learning
38. It's used primarily at library-sponsored programs--LEGOs, 3-D printer, blocks, Spheros, iPads, Raspberry Pi's, 3-D printer pens, plant kits, snap circuits, cubelets, ELS STEM-based games
39. I've mentioned most of our equipment above, but we will be opening a Digital Learning Lab this spring.
40. keva planks, building blocks
41. Kids enjoying constructing things with our legos and magnatiles. Most of our other STEM technology is loaned to us by larger libraries.
42. Launchpads are loaded with STEM apps and games. Checked out for one week.
43. lego and ozobots
44. Lego blocks - used by children and teens to build items for our Lego Challenge program
45. LEGO blocks for children to manipulate
46. Lego Club; iPads with STEM apps
47. Lego, Magna Tiles, Lincoln Logs available once a month.
48. Legos and blocks available whenever library is open for use by children and families. Thermal leak detectors and other conservation equipment available for patrons to check out.
49. Legos, Duplo, Lincoln logs, wooden blocks and magnetic tiles available for informal self-guided play.
50. Little Bits and Snap Circuits are available upon request. Various block sets such as magna tiles, legos, lincoln logs, and wood blocks are on display for patron use. They are on display in a rotating fashion. Recently, we acquired Dot and Dash from a nearby library. They are available upon request.

51. Lots of toys incorporated into events or left available in our programming area.
52. Magna-Tiles, blocks, other snap-together shapes that we use in Play-K sessions.
53. Most of our equipment involved "building"; some are tools.
54. Most of our STEM equipment are building blocks and toys that teach about science. We provide a structured Circle Time each Thursday morning all year long to preschoolers ages 3-5. They are given a specific project to build or create each week. We also perform scientific experiments during Circle Time. The Circle Time program averages 12-15 students each week.
55. Most of the items we have are always displayed for passive programs
56. mostly building
57. Mostly toys incorporated into storytimes but some other games and activities for school age as well.
58. Mostly used in open, self guided play.
59. mostly used within programming, but some items are left out in our play space for everyday interactions
60. Our equipment is software on computer terminals.
61. Our most-used STEM equipment is the Lakeshore Learning building kits that we received through the Wee Build grant last year. These kits are in steady use every day, throughout the day, for creative play and building activities. We also circulate Playaway Launchpads loaded with a variety of STEM apps. These have proven to be very popular with our preschool- and elementary-aged children.
62. Our STEAM equipment is used by people of all ages. We have circulating kits as well as 3D printing by appointment. Programs are mainly aimed at kids & teens but parents often participate as well.
63. Playaway Launchpad Learning Tablets, including tablets on the SAT and ACT tests
64. Pre-K have access to blocks 2x a week, elementary use legos 1x a week, middle schoolers' access a variety of STEM material each week
65. Public computers, blocks and all the kits we received from State Library. We present various programs. All programs are structured with exception of building blocks and Keva.
66. Regular weekly classes for each age group are scheduled and age appropriate challenges are presented for them to apply to the materials.
67. See question 9.

68. some passive programming and others used during after school programming or drop in events
69. Some programs are structured, and others are passive.
70. SPECK air quality monitors circulate; construction & building equipment has a designated place in the children's area.
71. STEM equipment is integrated into Library spaces and available at all 19 locations through programming. CLP engages in a robust outreach program as well to public schools, community partners and after school programs with STEM equipment and programs.
72. tablets families can check out, squishy circuit and beebot programs
73. The building blocks and magna tiles are used in preschool story time and passive programming..
74. The children check out the kits and try the experiments with their families. We also have a discovery table in house where children and parents can play with magnets, tangrams, discovery bottles, and other manipulatives
75. The duplos are available for children to use by discovery and the block parties are generally used to supplement storytime.
76. The items are available on tables for patron's use.
77. The Library has a 3D printer available for public use as well as video cameras, audio equipment and lighting equipment for public use.
78. The library has to borrow STEM equipment from the District. It must be shared by several libraries and often is not available for use. More funding would help to resolve this situation and allow branches to have their own equipment.
79. The Library's STEM equipment is used and demonstrated during programs and during open play time.
80. The majority of the items purchased with the Maker Grant were intended for use by the public and circulate. Other toys and blocks are available in the childrens department for families to utilize with their children. Special programs feature using other STEM kits and manipulatives.
81. The sewing machines are used by a teen group learning to sew. Blocks ar used on a regular basis with the younger ages fo free and targeted building.
82. The STEM equipment currently being utilized consists of wooden blocks, Legos, Kevea blocks, etc... It's made available in both in supervised and passive programming.

83. The STEM equipment is available in two departments - the children's department and the Maker Space. In both cases, equipment and materials are available whenever we are open. Many come to programs to learn how to use the various equipment, but some patrons have begun to come in during "free" time in the create space and experiment - which we encourage.
84. They are staff lead sessions so they usually have a topic they are covering or goal they are trying to accomplish.
85. Toys and STEM items for passive and active play and programming
86. Used Discovery Tables to attract youth to explore STEM concepts. Presentations are also utilized to express concepts.
87. used during programs, also lend out telescope. would love to have lendable microscopes
88. varied.
89. We bring in an astronomer that provides opportunities for families to utilize his telescope, we have Playaway launchpads with age appropriate games including math and science, and we have special events where children and families can play/explore freely with STEM kits.
90. We have 3D Printers for program development and soon for the public to use for their own jobs, ipads with STEM Apps, and several introductory robotics toys. We also have regular lego programs and toddler learning experiences with blocks and other tools.
91. We have a grant the bought blocks for our children to use at monthly block parties. Playaways with STEM apps can be checked out for 1 week at a time. Monthly Lego club is held for Middle School Students. A Makey-Makey Workshop for teens was lead by the Teen Programming Coordinator.
92. We have a LEGO club (now called Construction Club) which meets once a week to have activity time with our LEGOs, blocks, and books related to LEGOs, building, and various themes chosen to keep interest and creativity levels high. Parents and their children aged 6-12 are invited to participate. We have room for 12 participants at a time. The materials were provided through our local Women's Club and through Ronald McDonald House of Mid-Penn.
93. We have a lot of electronic resources however, we do not have the proper programming space. Most of the other STEM stuff is play related with a small education element.
94. We have a nice variety of building materials, (thanks to Susan Pannebaker), we have a few STEM kits that we loan out, we borrow STEM kits from the district for programs.

95. We have a passive STEM table where we put out STEM equipment for exploratory learning in the Children's department. The other equipment is used primarily in programming.
96. We have a resource room that has educational materials for pre-K through elementary. It includes all subject areas, including STEM construction, etc. Materials can be checked out with library card. For adults/teens, we will be circulating Kindles and notebooks.
97. We have blocks and legos and other building type materials that anyone can use at anytime within the library.
98. We have blocks, Legos, Logs, etc. that we've made available.
99. We have building blocks and toys used regularly by the children. Monthly we offer digital literacy training for our patrons. We will be offering iPads to young children later this month.
100. We have building toys and science kits. We also share science kits like Squishy Circuits and various robots (Ozobots, Dot and Dash, etc.) from another library in our district.
101. We have building toys that we use for in-house programs that are open to the public.
102. We have different blocks, toys for building and measuring and magnifying glasses, toys and videos for counting, and to use with financial literacy. We have toys that deal with medical, camouflage, endangered species, and health literacy.
103. We have different types of building materials that we set out for various programs. We have Legos, foam blocks, and stackable blocks out in our playroom at all times.
104. We have displayed the circuitry boards for the children to explore. Our Leap into STEM items include experiments with balance, air, building and light/shadows. We also use Legos for building.
105. We have done programming using the makey makey, snap circuits, etc. We have the keva planks, building logs, magna tiles, and other building toys provided by the state available for kids to use when they come in. We alternate those materials every month. We've also had "block parties" for the youngest patrons where all materials were available. We have build catapults, robots, & other STEM projects.
106. We have equipment such as robotics equipment, LEGOs, math puzzles, and more that we incorporate into regular children's programming.

107. We have found that hands on programming works very well for library programs. We use many building toys with the younger kids and a whole range of STEM toys and equipment with kids ages 6 and up
108. We have just started receiving building materials (legos etc) for children. We are also now just starting to plan and implement more STEM programs.
109. We have Keva Planks. The issue we have with adding more STEM materials that you show on the previous page is MONEY and STAFF. There is no money in our budget to obtain that kind of equipment. We'd need to do a grant, which is fine, but then I have NO money for staff training and development. The majority of the people who come into my library and need help with "tech" are people who don't even know how to use a mouse or open and print a PDF.
110. We have LEGO building days where families can come in and build whatever they want with our LEGOs.
111. We have LEGOs, Duplos & wooden blocks which are available in our children's area for patrons to play with and which are used on a daily basis. We also have additional LEGOs, Little Bits, Makey Makey and Sewing Machines which we make available for specific programs.
112. We have lots of engineering toys available in the room for pre-kindergarten and elementary school students. We also use makey makeys, sewing machines, iPads, ozobots, 3-D printers, and more for programming with elementary-high school students.
113. We have Magna Tiles out right now and we change out things at our tables for families to use. Other things are programs at the library..
114. We have Mega blocks for youth ages K-8 to build anything from cityscapes to dragons, we also have youth ages 9-18 who use Legos to create creatures and monsters.
115. We have several in-library building sets available as well as magna tiles and Lincoln Logs. We just recently received Playaway Launchpads for circulation that have pre-loaded STEM apps on them and will be acquiring themed backpacks that will have hands-on learning items inside and will be available for circulation.
116. we have several toys that can be used in STEM programming. magnetic blocks, lego building bricks, duplos building bricks, K'nex type building materials, Lakeshore building sets. We take a science experiment book and do them on FB video.
117. We have STEM kits that we use for our programming and also make it available for local organizations to put on programming at the Library and checkout off-site. These kits along with other equipment items including thermal scanner, voltage

meter, makey-makey, etc. are available for any library patron to checkout with a library card. We always have LEGOs, blocks and Keva blocks available for youth (both YA and children sections) to utilize anytime they visit.

118. We have STEM science lab kits available for checkout.
119. We have the Wee Build sets which the children have access to during and after storytime. Parents are encouraged to work with their children. Laptops and iPads are used during the storytime and children can interact with iPads that have STEM Programs which are loaded on the electronic device. Chemical and biological are safely introduced into the STEM programs.
120. We include STEM toys in our family play area, including MagnaTiles, blocks, and an iPad preloaded with apps. We use robotics equipment and a 3D printer in teen programs.
121. We make our stuff available at all times at our "Maker Table" and near the picture books for preschoolers.
122. We offer wooden block building programs for 2-5 year olds, LEGO Club for K-2 graders, book clubs with cooking instruction for 3-5 graders and Hour of Code program with Ozobots
123. We only have blocks and other building sets
124. We provide teh thermal leak detection equipment for check out. Our preschools and primary schoolers have access to engineering and science toys both in the library and at events.
125. We put it out on open shelves, talk to parents and children about them if we think they have an interest, and allow the to take things home for 2 weeks.
126. We rent out Hotspots, DVDs, music and audio books. We have preloaded tablets to check out for children. We have building toys in our children's area such as LEGOs and other building blocks.
127. We try to use our STEM equipment to taget the children and to have their parents help and interact with them.
128. We use Bee Bots and Snap Circuits in our children's programming regularly. We just purchased Cubelets and Littlebits to use in programming as well.
129. We use inexpensive items for our STEM programs
130. We use the Cruise into Kindergarten playscapes, The staff also produces passive programming such as pairing math books with art projects or worksheets.

131. We use the Universal Block Party blocks, Jenga, Tumbling Towers. We put them out for patrons to use. e offer special dates for parties but materials are available all the time.
132. We want to introduce our community to a lot of neat things that may expand their minds.
133. WeeBuild toys including various building blocks, plus legos. Toys are available for free play in the library.
134. Weekly gadget club
135. with extra fundinbgto the next age level
136. Wooden blocks, Wee Build sets, used in children's play areas; tablets & apps, used in Teen Reading Lounge programs.

STEM Space Description (Including Equipment):

1. 3D printers are used by people of all ages and are always out on the floor unless being used in a program. People make a demo appointment first and then are free to use by appointment. Other equipment is used in programs or by request.
2. A designated area in the Library "Block City" is used to house building block materials and our conference room is used for maker space events.
3. As stated before, we have a computer lab & a children's space with STEM toys, but not an actual dedicated STEM space.
4. Blocks and building manipulatives. Instructional sessions and unstructured sessions.
5. Can only be used when a staff member available to be in the area at this time....otherwise, we have missing or broken parts
6. During the summers, we use our Community/Meeting Room for our STEM space. During the summer we us motors, batteries, LEDs, and copper wire to create miniature robots. Throughout the year, for Lego Club, E-Reader and other Device, and Gaming Night, use either the Teen Lounge or the main floor to set up our equipment. We have our Legos, Mega Blocks, and our AV cart, as the three main equipment sources during the year.
7. classes
8. craft supplies, blocks/legos, iPads
9. Dedicated space: a music studio Flex-space: Maker Jawn, LEAP OST, clubs, passive programming

10. Equipment: snap circuits, dash dot robots, BB8, MakeyMakey, Samsung Gear VR. We use meeting rooms or open space in the library as needed to set up STEM workshops/activities for specified dates and times.
11. Is available for passive play at least 15 hours per week.
12. It is not a permanently-dedicated area. The Children's Programming Coordinator pulls out the blocks and Legos and supervises them when they are used.
13. It is not open just yet.
14. It's used to view creations from our Lego Challenge program. It has no equipment.
15. Keva planks are out for people to build at any time, whatever design they want. We have a table in the kids area and a table in the adult library space. We also have jigsaw puzzles and other table games out in the adult area. We have other learning tools and game in the kids area that fall into classic hand coordination - like beads and things. We can only support at this time games or activities that have a relatively low cost and low staff impact.
16. legos, maker kits,
17. materials are left out on the table for people to use and play with. Keva planks, magna tiles, items for marble runs and construction toys. Sewing machines will be in public space within 3 months. Training and set up are in process now.
18. Meeting room for STEM programs
19. n/a
20. Our Alienware videoing computers are in a separate space for privacy and noise control.
21. Our building materials are available for use at anytime. Public can request time for the use of the other equipment.
22. Our building tools are available for families to pursue their interests when the building is open.
23. Our community room is used for many different events, so we do not keep any dedicated STEM equipment in there. Typically, when we hold a STEM program, we bring in whatever materials/technology is needed for the program and remove it when we're done. However, we do have a Children's Department Play Center that makes the Lakeshore Learning building kits available to the public all of the hours we are open.
24. Our library does not yet have a permanent STEM space. We use our Computer Lab, a Community Room, and open space in the Children's section to host STEM programming. Most of the equipment is brought to these spaces and then stored

properly when the program is over. The staff who run the program are also trained to assist in any equipment used.

25. Our public space is used for preschool story hour of which we are beginning to offer STEM activities at. You Can Build It time with Lego's and other building sets and tablet use when applicable.
26. Our STEM space consists of display areas on top of children's book shelves to display LEGO projects for the month. We have a programming area that is used to show Book FLIX, as well as other programs, with a dedicated seating area.
27. Our STEM Station has a 3-D printer on top with Models and Crafts in drawers below. Very basic
28. Presently we only have a Maker's cart as our full time space for public use. We offer one pre-school program per week and one Grades K-4th once a month.
29. Primarily craft related. We had wanted to leave it out all the time, but couldn't due to the mess.
30. Renovo Library - 3D printer and Lego Robots programs in summer for youth. Lock Haven and Beech Creek Lego Robots for summer programming
31. See prior comments.
32. The 3d printer can be reserved by the public. It provides opportunity for patrons to create their own music, videos or 3d prints. The Creation Lab features a green screen wall, studio lighting, three cameras and several tripods which can be used inside the Creation Lab to create professional-quality videos or pictures. After recording video on the cameras, patrons can use two Mac Desktop Pro computers equipped with Final Cut Pro X, iMovie, and Aperture to edit video or pictures. For music, a synthesizer and Blue Yeti microphone are available as well as programs such as Garage Band or LogicPro available on a Mac Desktop Pro computer. Lastly, a Makerbot 3D printer is available for use public use with a trained staff member.
33. The community space is ample enough to use the equipment and store it. Access is scheduled by any activity already planned, and if not and available, lent out. The display from Discovery Space is out at all times for children to explore, we open the community room for special programs weekly and/or monthly depending on the program (these programs are staffed by the children's librarian)
34. The equipment in the STEM space is set up when we have the programs, and then put away when we are done. There is also space to showcase what the children built with the blocks and legos.
35. The materials are used during programs and are available with 24 hour notices for training and/or use of the 3D printer technology.

36. The passive programming table is located a few feet away from my work desk, and it contains a rotating set of activities including items that are relatively small. This potentially could pose a choking hazard. We did have to pull a few items because we were concerned that someone would eat/throw/take them.
37. The space is used for programming. When programming is not occurring, all patrons are welcome to utilize the materials and equipment within. We have five computers, a large whiteboard, 4 large sets of Little Bits, Lego WeDos, three 3D printers, a Silhouette cutting machine, Makey Makeys, and much more - including large amounts of recycled materials that can be used to create.
38. The STEM space has equipment/ supplies for engineering and craft activities. It is used for passive and organized family programming.
39. Use of blocks, figures,
40. Used mainly for family programs to get the parents and children together working on a project, building with blocks or Keva etc.
41. We are a one-room library and have a cart that we set up building and craft supplies on for use by any patron who stops in. We are also willing to get out materials as asked for by our patrons.
42. We are developing our STEM space.
43. We are hoping to open our story time room up for parents and children to come in and play at their leisure when we are having an official program. We are currently waiting on a Wee Build and we will be attending the Play-K workshop.
44. We do monthly projects - Legos, Snap Circuit, projects, etc.on a dedicated table.
45. We have a computer lab with mac pros, a 3-D printer and iPads. This space is used for classes. We also have a maker space which is used for classes, book groups, sewing and art clubs, and more. When we need more room, we use our storyroom or our large meeting room to hold STEM workshops which allow patrons more room to work on their projects.
46. We have a dedicated shelf for the materials and a separate children's space where children can play. See previous questions.
47. We have a Maker Space that is stocked with a sewing machine, art supplies, iPads, a 3-D printer, Mac computers, circuitry supplies, and robots. It is used weekly for open Maker time and for Career Counseling. It is also used for Maker book clubs, and other regularly scheduled programs.
48. We have a makerspace called the Creation Station that is for all ages, but is mainly used by children ages 3-10. The makerspace is mainly stocked with crafting materials.

49. We have a meeting room, which must sometimes be shared with other groups (the Library occupies part of a shared Education Campus space). In 2016, we secured "first rights" to a former lab and booked it extensively into the future for Library events. We currently store the majority of our STEAM equipment in that former lab in locked cabinets. In 2016, we purchased lightweight folding tables and chairs for the room to maximize configuration options and portability for offering programs in various formats. We borrow a variety of STEM educational toys from the Johnstown District Center and Cambria County Library. We also own the following as a System or as Somerset County Library: littleBits: STEAM Student Kit, Rule Your Room Kit, Synth Kit, Workshop Kit Zometool Workshop Kit Piper Computer Hardware Crafting Kits K'NEX® Education Amusement Park Experience Set Virtual Reality Glasses Wind Power 2.0 The Three Little Pigs Problem Solving STEM Kit KEVA Maker Bot Maze Squishy Circuits Osmo Genius Kit Osmo Coding Set Stikbot Pro Animation Studio Real-World STEM Challenge Kit - Gr. 2-3 Snap Circuits Alternative Energy Green Kids First Level 1 - Automobile Engineer Kids First Level 1 - Amusement Park Engineer Thames & Kosmos Physics Workshop MagnaTiles MakerBot 3D Printer (new - no public programs yet)
50. We have all the Lego s and all the other building toys together and allow the kids and parents to build whatever they want.
51. We have displays and exhibits from NASA Space Place and a regular STEM after school program. We also offer monthly intergenerational Lego building opportunities and we have a small space in our children's library for free form building play.
52. We have no dedicated space or equipment at our library. We use what can be stored in a desk drawer and wheeled out on a cart. Size is as much a consideration as budget when purchasing supplies
53. We have our Backpacks, MathStart kits, blocks, and Legos out all the time. Our STEM programs are every few weeks.
54. We have our program once a month in our community room where there is a large screen TV for the presentations and six long tables for the experiments and hands on activities.
55. We have shelves for preschool, elementary, and teens stocked with age appropriate craft supplies, legos, and toys. We also have a 3D printer available for use.
56. We make all of the equipment previously described available anytime patrons are interested.
57. We open our board room to accommodate our STEM programs

58. We use our community room to meet for "Lego Club" in a series of 4 back-to-back weekly meetings several times a year. We have buckets and buckets of Lego bricks for participants to construct with. Once construction is complete, participants can proudly display them in the Library for all to admire!
59. What is meant by public STEM space? The only time we have STEM is for programs not for people to walk in off the street and do STEM projects. We have neither the staff or space to do that.