# Makerboxes: Makerspaces in a Box Brain Storm Ideas

## Programs with Partnerships Ideas

<table>
<thead>
<tr>
<th>Makerbox</th>
<th>Programs</th>
<th>Partners</th>
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<tbody>
<tr>
<td>Photo Booth</td>
<td>Favorite Book re-enactment, Book Cover Photos, Snapchat, Editing Photos, Displaying the pictures in a group, Take pictures of what’s important in your community, Light photography/Long Exposure, Long exposure astronomy, Stop motion plant growth, Macro photography w/ flowers &amp; bugs, Movie props/Make up and photos</td>
<td>Photographer, Community Theater Group, Videographer, Phone Store (how to use apps &amp; filters), Thrift Store (extra props), Newspaper, Meteorologist, Astrophysicist, Entomologist, Biologist, Theater Company</td>
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<td>Mini Weapons</td>
<td>Paintball, Catapult Wars, Marshmallow Wars</td>
<td>National Guard, 4H, Gifted &amp; Talented at local school, Homeschool Co-op</td>
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<td>Break It reMake It</td>
<td>Learn about circuits, TechClub</td>
<td>Local Community College, Electrician, Parents that have used workable electronics, Schools</td>
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<td>Circuits</td>
<td>Learn about electric circuits, Build a Game Box for answering questions, Small engine creating, Electrician Show &amp; Tell, Display books for the program, Let kids make the conductive clay, Make greeting cards with light up parts</td>
<td>Electricians, Electrical Company, IT service centers, Hardware stores, Mechanics/Auto centers, Home builders association, Rotary, Kiwanis, Lions Club, etc., Phone Company</td>
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<td>Builder</td>
<td>Lego League, Building models based on local buildings, Bridge building, Tanks/Weapons, Dream City, Building your own community &amp; story, Safe Room – Fire Safety, Earthquake, Animal safety crossing</td>
<td>Schools, Historical Society, Museums, Military organizations, City planners, StoryCorps, Fire Department, Freeway Construction, Welder, Architect, Dept. of Fish and Game, Geologist</td>
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| Solar | Pizza cooking | Local Pizzeria  
|       | Dessert cooking | Baker/Bakery  
|       | DIY Greenhouse | Teen school or FFA  
| LEGO | LEGO Robotics | Robotics team from high school  
|      | LEGO We Do | Local Architect/Instructor  
|      | Build a scale model of the library | Math teacher  
|      | Build a soccer field with players | Geography teacher  
|      | Build a community | Youth Soccer League  
|      |             | 4H  
|      |             | Boy Scouts  
|      |             | Girl Scouts  
|      |             | Senior Center  

### Passive Program Ideas

<table>
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<tr>
<th>Makerbox</th>
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<td>Robots</td>
<td>Have a challenge—They have to build the robots and then use them to reach a goal.</td>
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| Builder | LEGO Club  
|         | Matching game with wood blocks  
|         | “What could you build with this?”  
|         | “Can you build this?”  
|         | Change building materials out weekly  
|         | Use as a gathering activity before a program starts  
|         | Set up activity stations: Rotate construction materials & book displays—take pictures of creations and post to FB  
|         | Engineering: Construction projects  
|         | Math: Use LEGOS to practice addition & subtraction |
| Photo Booth | Dress up as favorite book character  
|             | Re-enact favorite scene from a book  
|             | Photoshop scenes/characters  
|             | Design backdrops to match scenes  
|             | ½ Book/Face contest  
|             | Using pictures to make cards  
|             | Create a book “scene”  
|             | LEGO Movie Maker (free app) for stop motion movies  
|             | Green Screen movies  
|             | “Pretend Reality Show”  
|             | Commercial Challenge  
|             | Re-enact favorite movie/play scene  
|             | Create a book movie trailer  
|             | Dr. Seuss’ Birthday w/stand up Cat in the Hat—Have kids dress up as Seuss characters  
|             | Chess or Sports Team photo collages  
|             | Star Wars theme dress up  
|             | Comicon cosplay  
|             | Photo scavenger hunt  
|             | Holiday celebration photos (like Breakfast with Santa) |
| Break It reMake It          | Make people robots  
|                           | Make jewelry: earrings, bracelets  
|                           | Take computer apart  
|                           | Make small buildings  
|                           | Take computer apart to learn about the inside pieces  
|                           | Use the pieces to build bracelets, necklaces, etc.  
|                           | Use keyboard to make a purse  
| Repurposing Books         | Blackout Poetry  
|                           | Ornaments  
|                           | Collages  
|                           | Origami  
|                           | Pop-up Books—Math/Measurement  
|                           | Airplanes—measure flight distance—Math & Engineering  
|                           | Folded Books—Math & Measurement  
|                           | Cut book pages into strips and put in a jar—have patrons try to guess book title  
|                           | Cut or fold book pages into shapes  
|                           | Book purses  
| Mini Weapons              | Marshmallow shooters  
|                           | Catapults for marshmallow war  
|                           | Simple machines—Science/Physics  
|                           | Trajectory—Math  
|                           | Building—Engineering  
| Solar                     | Track temperature in solar oven over time and how weather affects the temperatures.  
|                           | Display different solar oven types and give “guess what it is” type display  
|                           | Explore greenhouse effect by using oven to start saplings in cold weather  