



# **MAKER MAGIC**

*Your toolbox  
for engaging all ages  
in STEM exploration  
as you create  
community-based partnerships  
to advance STEM!*

Challenges  
such as  
Mars  
Landers  
to protect  
astronauts,  
spaghetti  
engineering  
or  
Brackitz  
building  
are clearly  
NOT  
adventures  
for  
little kids  
only!





Maker kits for “Engineering Challenge” kits are as simple as aluminum foil and tubs of water!

Broken coffee pots, speakers, power tools, keyboards ... DIYers are glad to share their *UnMaking* treasures with new friends.



You can even make mobiles from the pieces!



Maker experiences can create inexpensive and fun windows into a variety of STEM fields. They expose children, teens and adults to new ideas.

We can engage people in play while informing them all about the importance of STEM.



Now THIS is multi-generational experiential learning!

Visual memory, questions about eye witnesses, perception “grouping” – all at one station!



Please note: Adventures can engage everyone!

How would YOU float a boat AND balance it?



One station with skeletons, reflexes, motor patterns, breath control ... WOW!

Send the kids home with the supplies they need for their first science fair project!



Maker events hook local businesses to your STEM programs. One firm brought their robotic arm, Time Warner Cable's Connect a Million Minds joined us, Onondaga Earth Corps planted seeds, and IEEE brought their Magic Globes!



Lego Maker adventures are SO easy to “sell” to Makers ... the wonder of a bin full of pieces and NO pattern to follow become a dream come true at a Maker Hall.



The remarkable thing? You will find it actually can be very inexpensive to put together our Earthquake Challenge!



Watch garage sales, launch a PTA/PTSO “donate your Legos” campaign with a clean-the-closets theme ... be shameless!

Marshmallow engineering employs geometric thinking ... and lets you eat your final product!



Finding Fossils exposes kids to paleontology and sends them home with a fine “story starter” to tell Nana. It is surprising how simple it is to get the needed materials.



Ta da! Our Brackitz kits were *donated* to Ying TRSEF's Maker Halls. Who will give YOU supplies? Find out!



Our volunteers are living role models at all of our Maker events. They walk the walk of STEM leaders!



Could you use Maker Hall kits to connect with local homeschooling families?



THINK SMALL ...  
**OR**  
THINK  
**BIG.**

**Just try!**

