

# APPLICATION

## TEF STEM Initiative Grant

Applicant(s): Paula Paulson

Job Title: Kindergarten

School Site: Victor

Principal: William Baker

**Contact Information:**

Day Phone # (310) 480-3847

Evening Phone # (310) 534-2570

Email: paulson.paula@tufsd.org

**Program/Event (Please select 1 per application)**

- |   |  |   |  |
|---|--|---|--|
| <input type="radio"/> Engineering **<br>After-School Club | <input type="radio"/> First Lego League/<br>Robotics | <input checked="" type="radio"/> Family STEM<br>Night | <input type="radio"/> Hour of Code     |
| <input type="radio"/> Math Counts                         | <input type="radio"/> Science Olympiad               | <input type="radio"/> CyberPatriots                   | <input type="radio"/> Stellar Xplorers |

*\* Applicants may submit separate applications for multiple programs/events.*

*\*\* Applicants for Engineering After-School Club, please include program title & curriculum/description*

Did this school receive a TEF STEM Initiative Grant for this program/event last year?

☒ YES  
☐ NO


Number of years program/event has been in place at your schools:

X 0 years (new)         1 year         2 or more years

Targeted Grade Level(s) K-3

Estimated number of participating students: 400+

Estimated schedule of events and planning (ex: tentative dates for future information meeting, club meeting times, competitions or event dates, etc.)

I'm so excited to get this opportunity to bring a Lego  
Maker Space Studio to Victor Family Science  
Night. The goal is to create 2 maker space Lego  
studios on wheels so that students can build  
and create using pre-engineering skills. They tinker  
and learn at the same time by using creation cards  
to create ideas using legos as prototypes.  
 **wants to celebrate and support grant winners!**

**Grant winners are required to notify TEF ([Admin@TorranceEducationFoundation.org](mailto:Admin@TorranceEducationFoundation.org)) of future events, competitions, and ceremonies related to the approved program/event. Please give at least two weeks notice.**

Applicant Signature [Signature]

Date 9/26/18

Principal Signature [Signature]

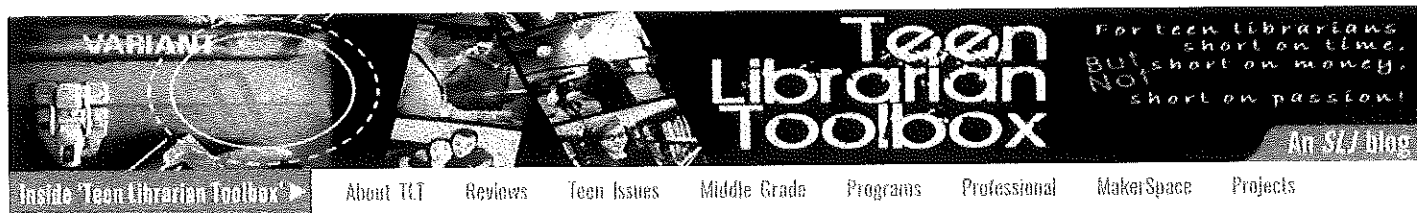
Date 9/26/18

I estimate the rolling maker space stations will cost \$1000.00 to make and to use the funds to purchase lumber, wheels, crates and lego bricks.

I would like to showcase this Maker space by our first K/1 Family Science Night. 2nd and 3rd grade will be able to use the maker space studio by having more challenging skill cards.

# The Resistance is calling.

September 18



## MakerSpace: Legos! The one tool every makerspace needs?

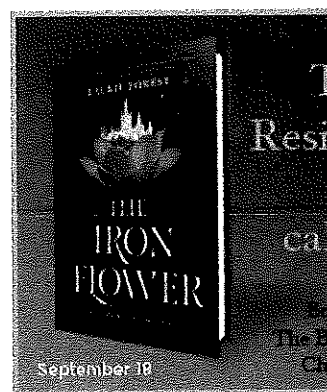
JULY 31, 2017 BY KAREN JENSEN, TLT

1 COMMENT



I maintain that a genuine staple of a good MakerSpace can be found in Legos. Make no mistake, Legos are not cheap, but they have a versatility about them. And you can get around the cost of Legos by buying random bulk packages off of Amazon. You have no idea what kinds of pieces you will get, but they are significantly cheaper. And occasionally you can find a good sale. Wal Mart, for example, occasionally has a case of 500+ Legos for around \$30.00. It's a good starting place. You can start small and keep adding to your collection over time. You need a good amount of standard bricks, but you also need unique pieces to really build a variety of projects. Some libraries successfully get donations from the community, but I have tried at two different libraries and have found that people really like to hang on to their Legos.

In addition to just doing regular Lego builds, you can combine Legos with things like LittleBits and a Hummingbird Robotics Kit to take your Lego creations to the next level. If you are really advanced, you can even combine them with a Raspberry Pi to make a remote control car. Below we adapted the idea behind brushbots to make vibrating Lego cars. All you need is a vibrating motor, a coin battery and an adhesive to attach it to your Lego car.



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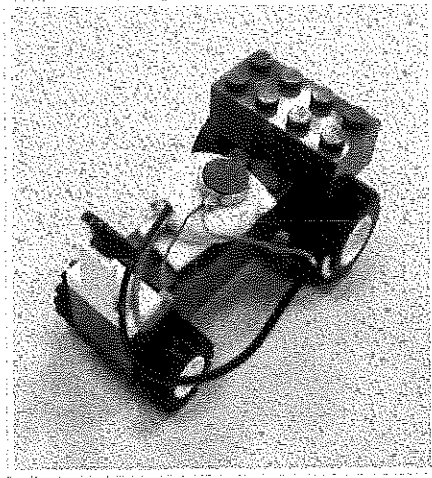
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- Book Review: 500 Words or Less by Juleah del Rosario
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- Sunday Reflections: It Was a Rough Week to be a Teenage Girl
- Friday Finds: September 21, 2018
- Walk the Jagged Streets of Gentrification with Ibi Zoboi's *Pride*, a guest post by Marie Marquardt
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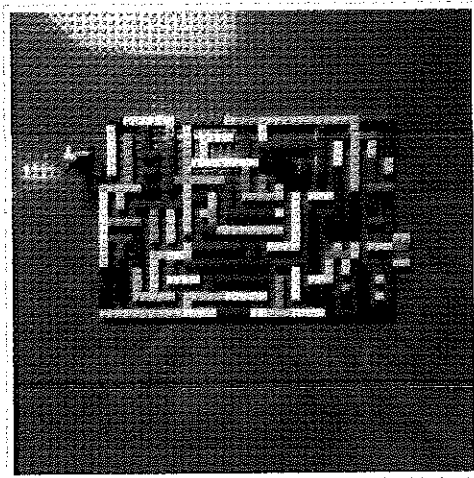
- Karen Harris on Things I Never Learned in Library School: Dealing with Minors and Pornography
- PaperWithPurpose on Helping Teens Prepare for College? Don't Forget to Talk About Sexual



Here are some of the ways we use Legos in our Teen MakerSpace at The Public Library of Mount Vernon and Knox County.

## The Lego Wall

Inspired by all the great Lego walls we kept seeing online, we too wanted to create a Lego wall, but we simply didn't have the wall space in our area. So we made a portable Lego wall using a piece of plywood and 4 10x10 Lego plates. We can set the Lego wall in one of our windows and take it out whenever we would like. We can also take it with us on a stand for outreach events.



This is a Lego maze that was built by multiple teens on our Lego wall. One teen started it and as teens come in they continue to make it grow. At this point about 4 teens have had a hand in building this maze.

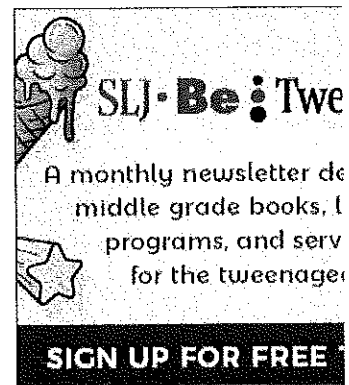
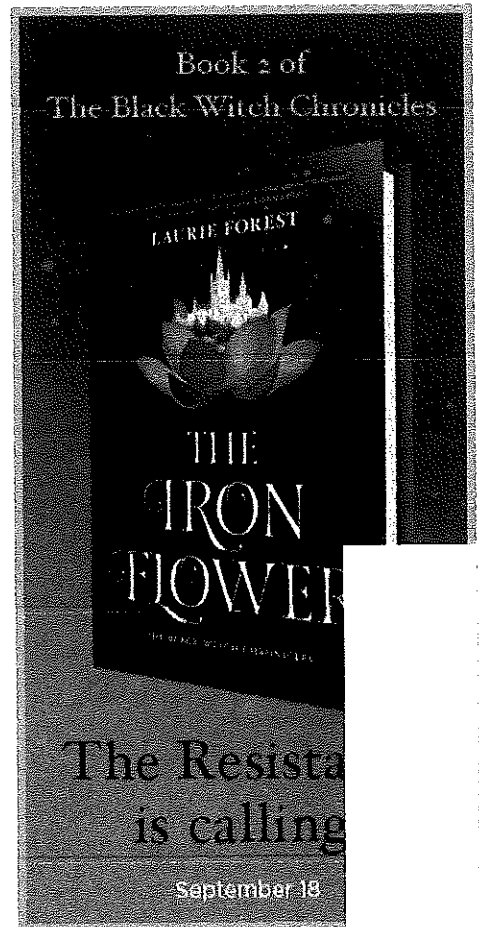
## The Daily Lego Challenge

We put out a daily Lego challenge as one of our regular Teen MakerSpace stations. A large number of our ideas come from the book 365 Things to Do with Lego Bricks.

Violence

- Cathy on Sunday Reflections: What's a Powder Puff?
- Dora Benet on Book Review: Dream Country by Shannon Gibney
- Reflection Blog 2 Information Communities, Middle Grade Librarians | Lovisa's ISchool Blog on Middle Grade Monday – Reader's Advisory and Reference Interviews with Tweens

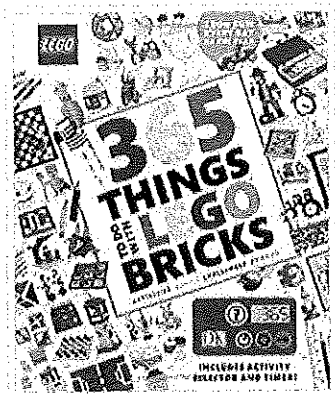
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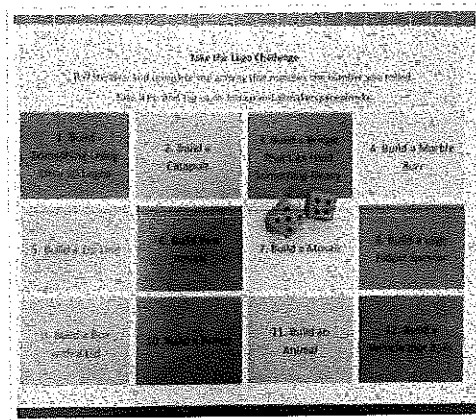
## Lego Challenge Cards

There are a variety of Lego challenge cards that you can find online by doing a Google search. We have a deck of cards – laminated for longevity – that we keep out and teens can randomly choose a card and take the challenge.



## The Lego Challenge Game

We took the idea of the Lego challenge cards one step further and created a Lego challenge game. Again, this idea was inspired by things I found online. I created a numbered game sheet and a teen created our dice using Sculpey clay. You simply roll the dice and complete the challenge that matches the number you rolled. You can make multiple game boards and rotate them out to keep it interesting.



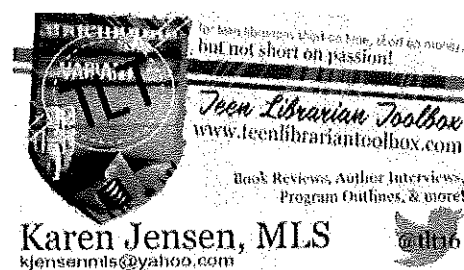
## Who Are We?

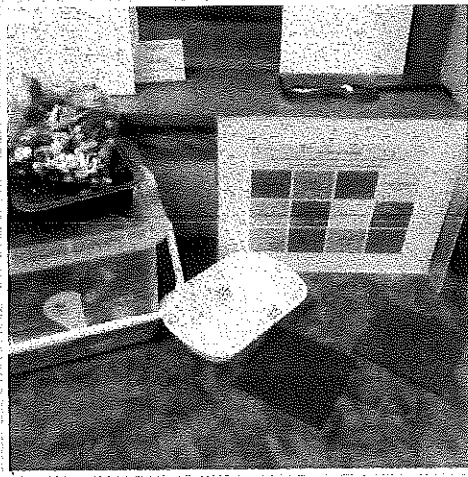


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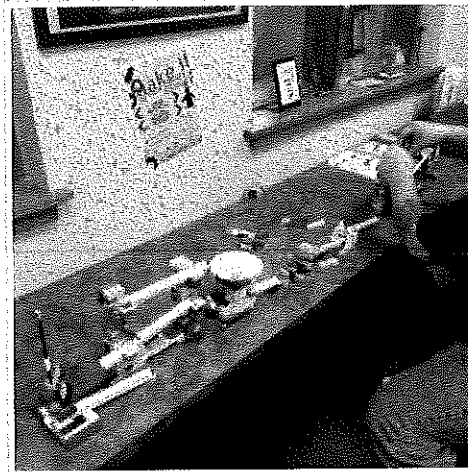
## TLT Creator and Administrator





## Rube Goldberg Machines

A Rube Goldberg Machine is a type of chain reaction machine where one action leads to another. You can make one using Legos. In fact, there is even a book about it called Lego Chain Reaction. After teens get the concept down, it's fun to challenge them to make a design of their own.



## Stop Motion Animation

We regularly use Legos in our Stop Motion Animation station. The minifigures are great cast members and you can build your own sets.



## Lego Books

We have a HUGE collection of Lego books in our Teen MakerSpace and they are some of our highest circulating items. [No Starch Press](#) has a great collection of Lego books.



Although our books are always available for check out, we do keep the Legos locked up when no staff is in the room to help prevent theft.

And no, Lego didn't pay me to write this post. I have just really found Legos to be a useful MakerSpace tool.

FILED UNDER: MAKERSPACE

TAGGED WITH: LEGO, LEGOS

## Trackbacks

New Makerspace and Digital Media Lab Resources – Stephen's Lighthouse says:

December 27, 2017 at 7:00 am

[...] Legos! The one tool every makerspace needs?, School Library Journal The author celebrates the versatility of Legos, with ideas for Lego projects and games, plus tips for getting around the high cost of Lego sets. [...]

[Reply](#)

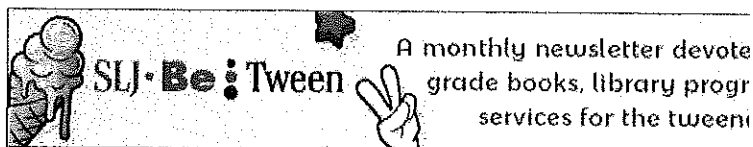
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**TeenLibrarianToolbox**  
@TLT16

It's been a rough couple of weeks to be female, to be a sexual assault survivor, to be a parent, to be someone that cares about Democracy. Taking 2day off of social media. I know I have lots of people to reply to, but gonna take a day to pretend the world's not on fire & recharge

6h



**TeenLibrarianToolbox**  
@TLT16

My teenage daughter just asked me: IS

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