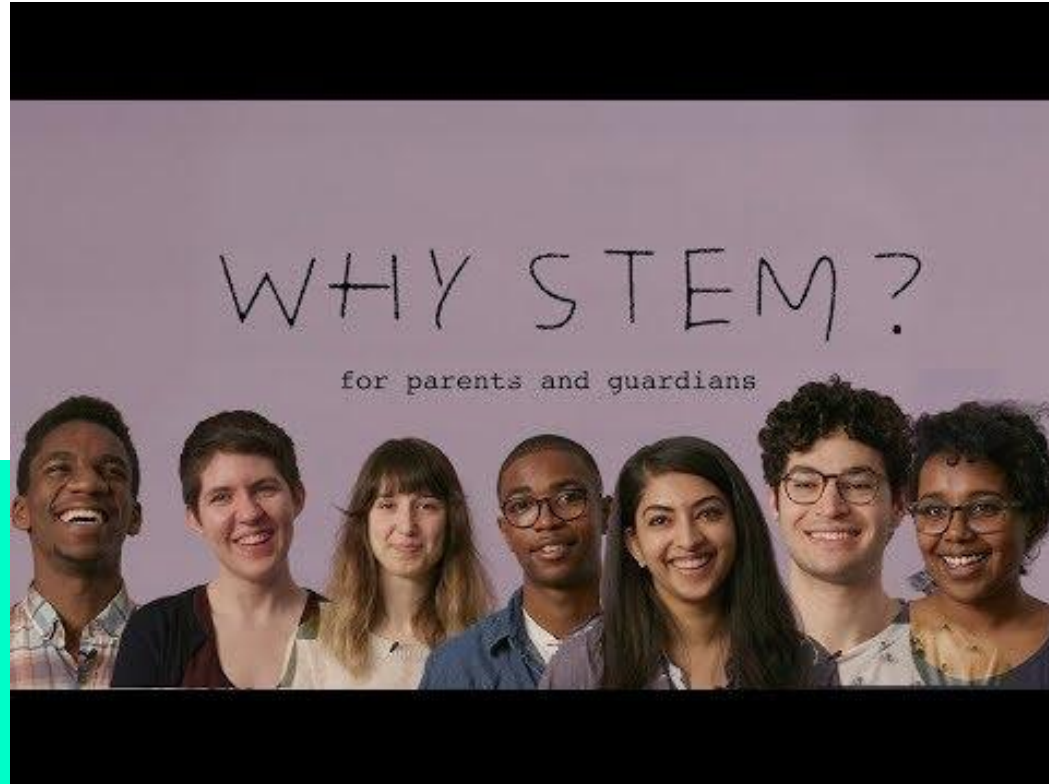


Family STEM Night

- *How can I use my resources wisely to achieve my goal?*
- *How can I best meet criteria and constraints?*
- *Why is planning before building important?*

January 27, 2021

WHY STEM?



Some materials you may want to have available are...

- Legos
- Blocks
- Stackable Materials (Jenga Blocks, books, etc.)
 - Paper for planning
 - Dice
 - Coloring Utensils

JOIN THE SHR GOOGLE CLASSROOM

[HTTPS://CLASSROOM.GOOGLE.COM/C/MTGxMjC5OTk1NzY5?CJC=B3ZG](https://classroom.google.com/c/MTGxMjC5OTk1NzY5?CJC=B3ZG)

CCX

LEGO CHOICE BOARDS

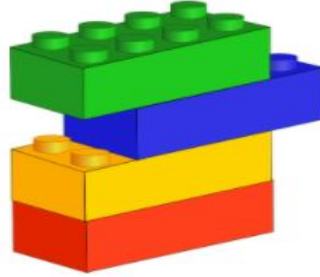
Build a castle.



Build an animal.



Build with only 20 legos.



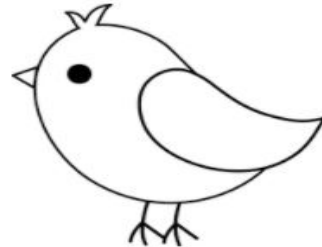
Build with your favorite color legos.



Build a car.



Build something that flies.



Choose your favorite color and make a snowflake.



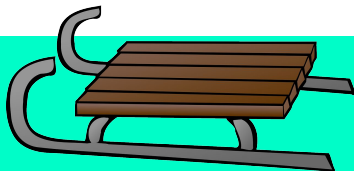
Make a snow person using your legos.



Build an igloo using your legos.



Build a sled using your legos.



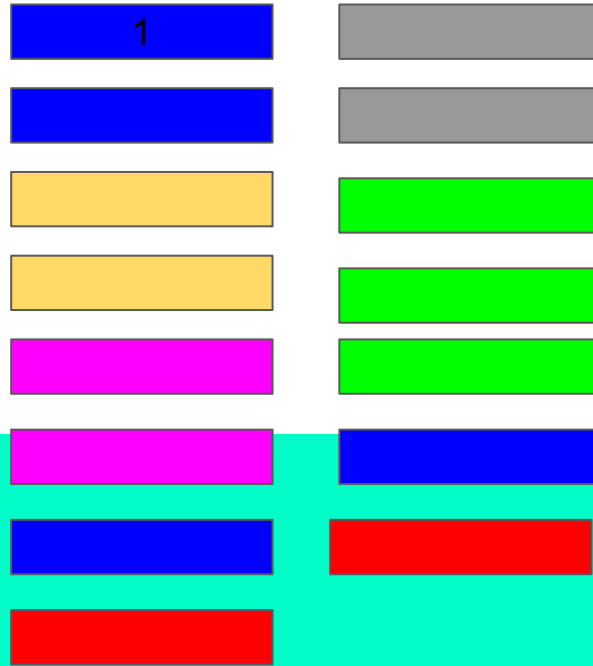
Make an ice castle.



Make a big cup of hot chocolate with your legos.

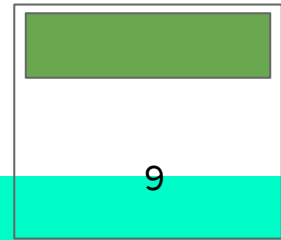
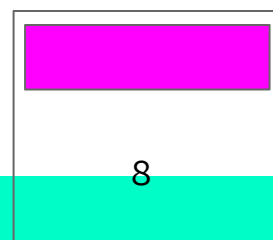
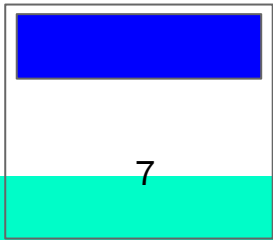
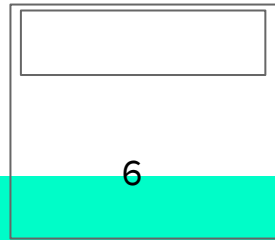
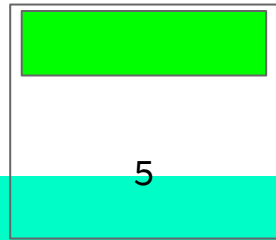
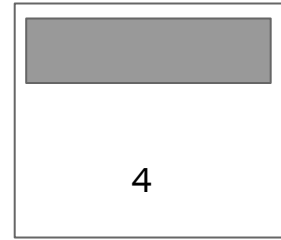
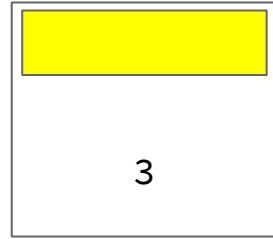
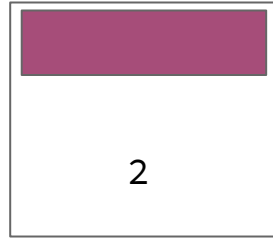
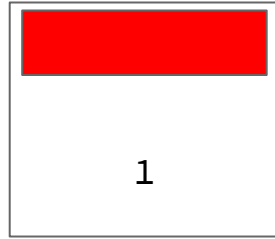
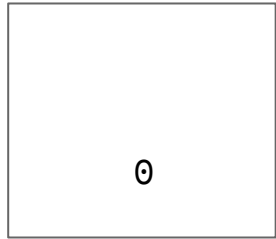


LEGO CODING



WRITE YOUR OWN CODE!

LEGO MATH



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LEGO MATH

1. Choose which operation you are going to complete (Add, Subtract, multiply or divide)
2. Roll the di to find out how many legos you are going to take out. Take out the amount of legos that you need.
3. Group the legos together into at least 2 groups.
4. Use the codes to figure out the value of the legos.
5. Solve the problem.
6. Represent the answer with legos.



LEGO LETTERS



Make your name out of Legos.

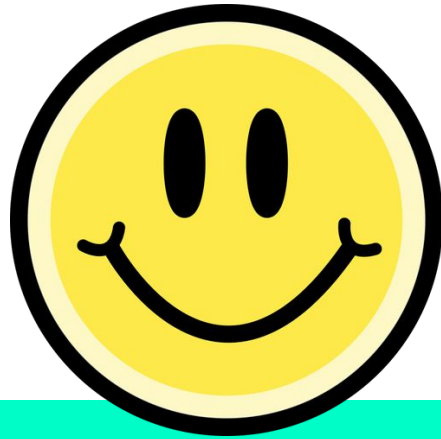
<p>Use only one color Legos.</p>	<p>Make your name using less than 20 legos.</p>	<p>Make a pattern with the letters of your name.</p>
<p>Use all the same size legos.</p>	<p>Make your name using a handful of legos.</p>	<p>Make your name 3D.</p>

LEGO DESIGN CHALLENGES

- Design the ultimate playground with your legos. Have a slide, swings and monkey bars.
- A LEGO person who lives in the Lambertville/West Amwell wants to visit his LEGO friend in New Hope. To get across the river that separates NJ and PA, the LEGO person can only drive. Build a bridge that is strong and sturdy.

*Come up with a plan before you build. Share your plan with the group. After you build, reflect on your plan. What would you do differently next time? What worked? *

QUESTIONS?



Alanna Jenkins- LPS/WAS STEM Educator
alanna.jenkins@shrsd.org