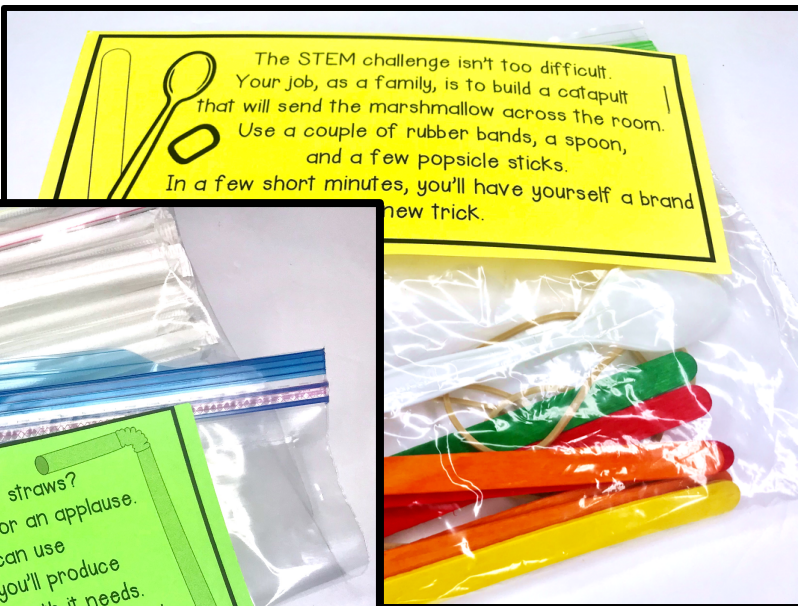
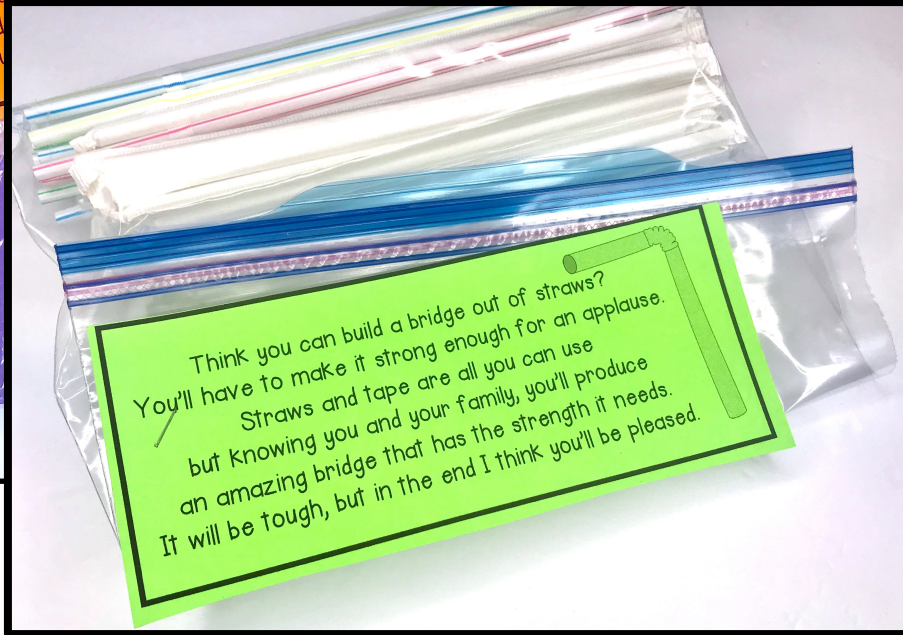


Can your family build a house out of sticky notes?  
I think you can do it better than most.  
Start building using only this stack  
and try not to let your house have any cracks.  
Even though you are very skilled  
don't be upset if you have to rebuild.



The STEM challenge isn't too difficult.  
Your job, as a family, is to build a catapult  
that will send the marshmallow across the room.  
Use a couple of rubber bands, a spoon,  
and a few popsicle sticks.  
In a few short minutes, you'll have yourself a brand  
new trick.



Think you can build a bridge out of straws?  
You'll have to make it strong enough for an applause.  
Straws and tape are all you can use  
but knowing you and your family, you'll produce  
an amazing bridge that has the strength it needs.  
It will be tough, but in the end I think you'll be pleased.

**Engage families with  
monthly STEM challenges!**

1. Build a Tower
2. Build a Catapult
3. Build a Tower
4. Build a Pyramid
5. Build a 3D Shape
6. Build a House
7. Build a Boat
8. Build a Stage and Puppet
9. Build a Bridge
10. Build a Park

**Includes 10  
STEM Challenges**

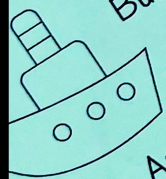
## Materials Needed Per Student

### Build a Boat

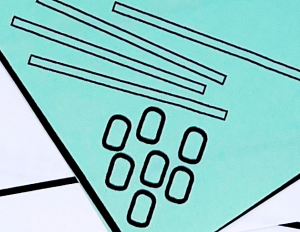
1. Baggie
2. Aluminum Foil



Reynolds Wrap  
TRUSTED SINCE 1947



Your task is to build a boat,  
But the real challenge is to keep it afloat.  
You can use as much or as little  
of the aluminum foil as you want,  
As long as you build a boat that you want,  
Place your new boat in a container of water.  
Cross your fingers and hope it doesn't go under.

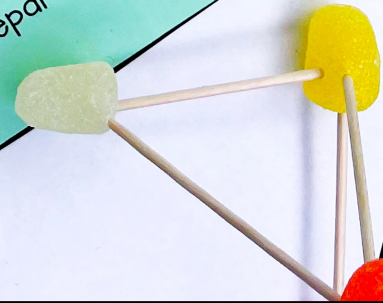
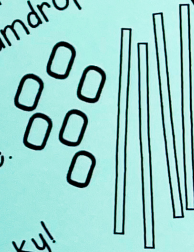


Grab your family and head to a countertop,  
Try to create a fun 3-D shape  
And no, you can't use any tape.  
This is sure to be tricky  
and be prepared to get sticky!

## Materials Needed Per Student

### Build a 3D Shape:

1. Baggie
2. Handful of gumdrops  
Handful of toothpicks



- Toothpicks
- Marshmallows
- Rubber Bands
- Popsicle Sticks
- Spoons
- Index Cards
- Miniature Cups
- Gumdrops
- Sticky Notes
- Aluminum Foil
- Sock
- Tape
- Straws
- Pipe Cleaners

**Easy to Find  
Materials**

## Materials Needed Per Student

### Build a Tower:

1. Baggie
2. Handful of mini marshmallows
3. Small handful of toothpicks

Family fun is sure to be had  
It's full of marshmallows —but don't eat them YET!  
Using only the materials in this small set,  
Your job as a family is to build a tower as high as a cloud  
When you are done, step back and be proud!



# How to Create

Step #1: Print the fun STEM challenge cards.

Step #2: Gather the materials.

Step #3: Place the materials in a bag for each student.

Step #4: Staple the STEM challenge card to each bag.

Step #5: Send home with students!

# Ideas for Use

- Give each family a bag at Meet the Teacher or Open House Night (My favorite!)
- Encourage students to take it home and try the challenge with siblings, neighbors, parents, family members, etc.
- Students can bring in their final STEM challenge and display it in your classroom.
- Students can send a picture to you to show other students.

# Join the hundreds of teachers who have used this resource with their students!

★★★★★ Extremely satisfied

The stem packets are parent friendly and the materials are easy to gather. I am sending this home bi-weekly and the parents are thrilled. The kids love the projects and are learning a lot.

★★★★★ Extremely satisfied

I create a baggie for each child to take home as a monthly STEM challenge. I love what they create. Some will bring them in and others will take a photo of the creation. It is one piece of homework that my students really enjoy.

★★★★★ Extremely satisfied

This resource is great. It is easy to follow and prepare ahead of time. All of the needed materials are easy to obtain and cost minimal money.

★★★★★ Extremely satisfied

These have been so fun for my kids and families. Love how they all take their own identity. The vote in my class, everyone loves these.