



# Marshmallow Castle STEM Challenge

**Build a grand (and delicious!) home for a marshmallow snowperson!**

## Supplies:

- Bag of mini marshmallows
- Bag of regular-size marshmallows
- Box of toothpicks
- Small piece of carrot for snowperson nose (optional)
- Beans or buttons for snowperson accouterment (optional)



## Part 1: Build a marshmallow snowperson

Using the marshmallows and toothpicks, build the person who's going to live inside your marshmallow-and-toothpick dwelling. Think about how big you want your person to be (remember: As your person gets bigger, the house will, too). Add a face (a small piece of carrot could work for a nose), hair, clothes—be creative!



## Part 2: Build the castle

Now your challenge is to build a castle for your marshmallow snowperson. You may want to do some experimentation at first: what shapes will provide a strong structure? What does your base look like, and how will you build up from it? Build some prototypes (a model or first draft) to test the strength and size of your castle. Can your structure withstand a windstorm (table fan)? What about an earthquake (shaky surface)?

