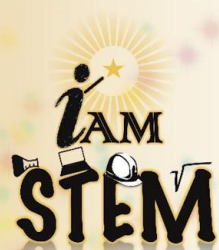


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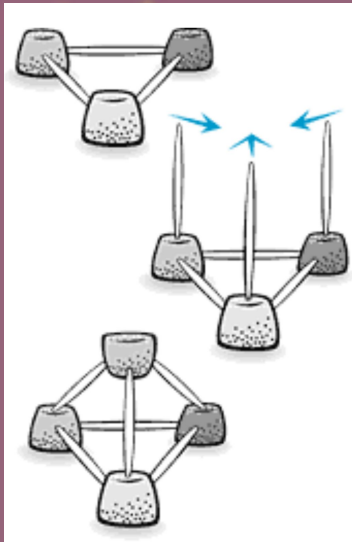
# ENCANTO

Making Good & Necessary Trouble



## Dots Candy & Toothpick Tower

Monday, June 27th, 2022



### Materials:

- Dots Candy
- Toothpicks
- Sheet of paper

### Instructions:

*Before beginning your build, plan out a design on paper that only utilizes Dots Candy and toothpicks. What shapes might best hold the weight of your tower?*

1. Create a base for your tower using the Dots candy and the toothpicks.
2. Make your tower as big and grand as you can.
3. Try to build a strong and stable structure that cannot fall easily.
4. Click on the image for a few STEM Tower Challenges!

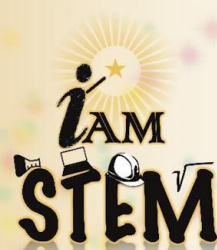
Click Image For STEM Tower Challenges

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Tuesday, June 28th, 2022

## Build a House Part 1



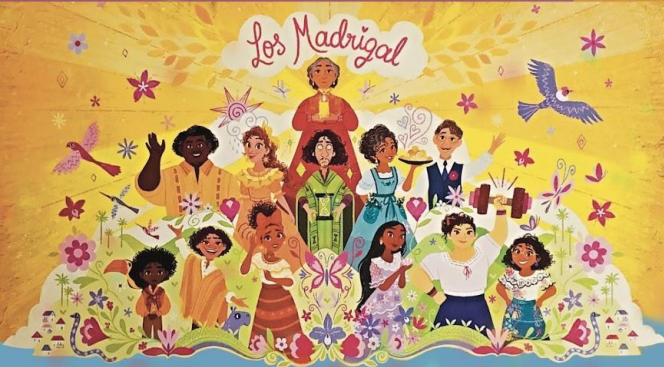
[Click Blueprint For More Instructions.](#)

### Materials:

- Cardstock Paper
- Scissors
- Ruler
- Copper Tape
- Double sided tape
- Mini solar panels
- LED bulbs

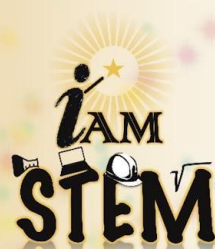
### Instructions:

1. Decorate your house blueprint cards.
2. Carefully cut out your house blueprint and cut the windows with an adult.
3. Fold the blueprints straight on the dotted lines.
4. Use the double sided tape to close the house and stick it to the base.
5. Save your house and roof for tomorrow.



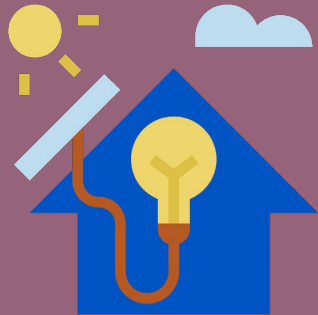
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Making Good & Necessary Trouble



Wednesday, June 29th, 2022

## Build a House Part 2



Click Solar House For More Instruction.

### Materials:

- Cardstock Paper
- Scissors
- Copper Tape
- Ruler
- Double sided tape
- mini solar panels
- LED bulbs
- Box cutter (or safe and age appropriate cutting tool)

### Instructions:

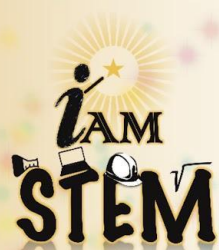
1. Fold the roof with the dots turned inside, open up light bulb leads.
2. Tape the long side of the light bulb on the "+" side, repeat with the short side of the light bulb taped to "-" side.
3. Use the copper tape to stick the "+" terminal on the solar panel to the same end as the "+" circuit line.
4. Tape your roof to the house, place solar house in sunlight.

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Thursday, June 30th, 2022

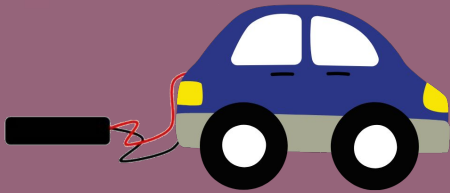
## Conductive Playdough

### Materials:

- Playdough (Conductive Playdough)
- Non-conductive Playdough
- Battery
- Paper clips
- Light-emitting diodes (LEDs)
- Car wheels
- Electrical Tape

### Instructions:

1. Design a car with 2 layers of conductive playdough and middle layer of non-conductive playdough. Tape both paper clips to your battery with electrical tape. Ensure that both sides are even.
2. Add car wheels to all sides of your playdough car.
3. Put the positive wire above the middle layer and place the negative wire below the middle layer.
4. Add open light bulbs to the front and back of the playdough car.



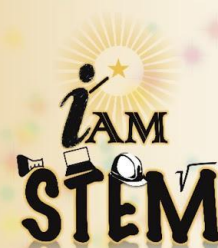
[Click Car For More Instruction.](#)

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# ENCANTO

Making Good & Necessary Trouble



Friday, July 1<sup>st</sup>, 2022

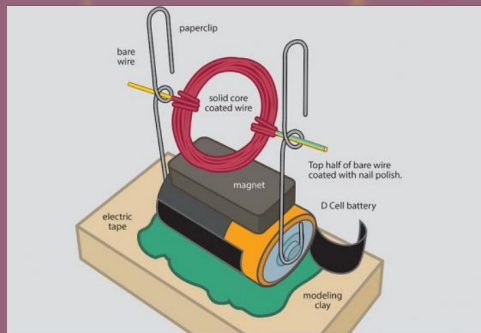
## STEM Challenge (Build A Motor)

### Materials:

- Sand paper
- Neodymium magnets
- 2 - metal paper clips
- D-cell or C-Cell battery
- #28 bare copper wire
- Marker
- Ruler
- Scissors

### Instructions:

1. Uncoil your paper clips to create stands for your solenoid
2. Tape both paper clips to your battery with electrical tape. Ensure that both sides are even.
3. Wrap your wire around a marker 10-15 times to form a solenoid. Leave 3 cm of wire on each end. Remove marker solenoid.
4. Loop the end of your wire through the solenoid to help it hold its circular shape. Do this symmetrically on both sides.
5. On one end, sand the insulation off the wire completely – as close to the solenoid as possible.
6. On the other side, sand only the TOP PART of the wire. Sand as close to the solenoid as possible. Hold solenoid vertically as you do this.
7. Carefully place solenoid inside of metal supports. Adjust so that it can spin freely.
8. Place a magnet under your solenoid. Give it a push to get it started. Congratulations! You've built a motor



**Click Motor for More Information.**