

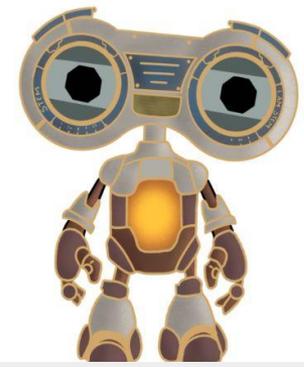


JINGLE JANGLE

in June & July

“The Square Root of Possible”

VIRTUAL SUMMER CAMP 2021



Monday, July 12th, 2021

Scribble Bots

Materials

- Pringles Chip Can or Cup
- Glue Sticks
- Tape
- Markers
- Paper

Instructions:

1. Decorate pringles chip can or cup





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Tuesday, July 13th, 2021



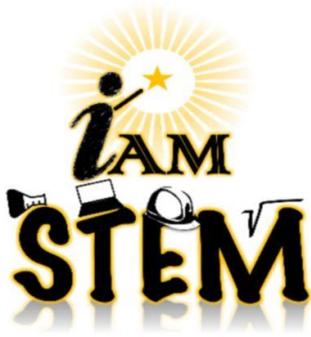
Scribble Bots

Materials

- | | |
|---|-------------------------------------|
| <input type="checkbox"/> Pringles Chip Can or Cup | <input type="checkbox"/> AA Battery |
| <input type="checkbox"/> Glue Sticks | <input type="checkbox"/> Wire |
| <input type="checkbox"/> Tape | <input type="checkbox"/> DC Motor |
| <input type="checkbox"/> Thick Rubber Band | <input type="checkbox"/> Markers |
| <input type="checkbox"/> Cork | <input type="checkbox"/> Paper |

Instructions:

1. Place the thick elastic band around your battery
2. And tape to metal side of Pringles chip can/cup
3. Attach the motor to the top of the container, it needs to be close to the edge so the arm can spin freely.
4. Attach wire to the motor and battery. The elastic band holds wire in place.
5. Attach cork to the motor and test to see if it spins
6. Use tape to attach 4 markers to the can.
7. Remove the caps of marker and let the robot move



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Wednesday, July 14th, 2021

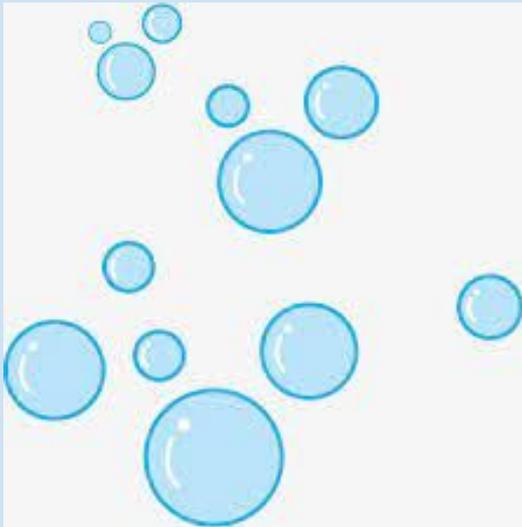
Unpoppable Bubbles

Materials

- 2 cups of water
- ¼ dish soap
- 2 tablespoons of glycerin/sugar
- A few pipettes/spoon
- Cotton gloves

Instructions:

1. Cut a pipette on the bigger end to act as your bubble wand
2. Fill your bowl with water, and dish soap. Stir very gently as you don't want to cause foam.
3. Next, add glycerin. Glycerin is available at craft stores or online.
4. Stir it all together slowly again.
5. Put on cotton gloves. These gloves allow for a soft layer upon which the bubble to rest.
6. Dip the large end of the pipette into the solution. Slowly blow out a bubble.





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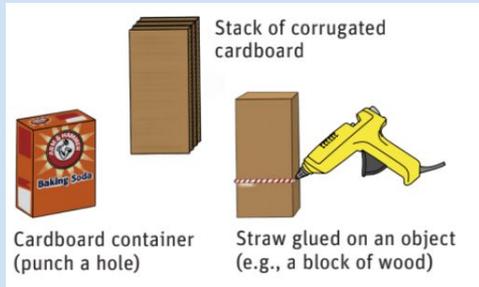
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Thursday, July 15th, 2021

Cranky Contraptions Part 1

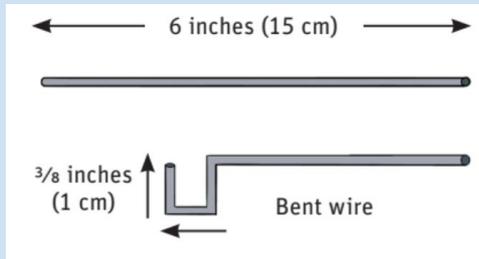
1.



Materials:

- Masking tape
- Hole punch
- Scissors
- Elmer's glue
- 2 Small cardboard containers
- Pliers
- Scissors
- Paper Clip/18 gauge wire
- Foam block

2.



Instructions:

1. Base: Take the small cardboard container and use hole punch to make holes on both sides.
2. Wire: Take wire/paper clip and make three 90o bends using the width of a pair of pliers as a guide, make three bends in the wire close together (about 3/8 inch or 1 centimeter apart).
3. Follower: Poke a hole in a 1/2 x 1/2 piece of foam or cardboard

3.

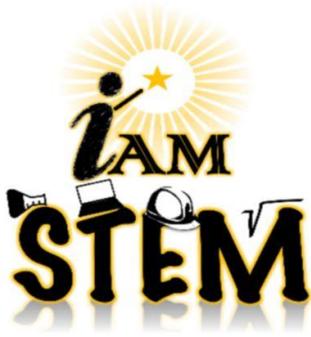
A note on follower dimensions:
The follower can be different sizes; we use 1/2 x 1/2 inch pieces.



Thick foam



Cardboard



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Tuesday, July 16th, 2021

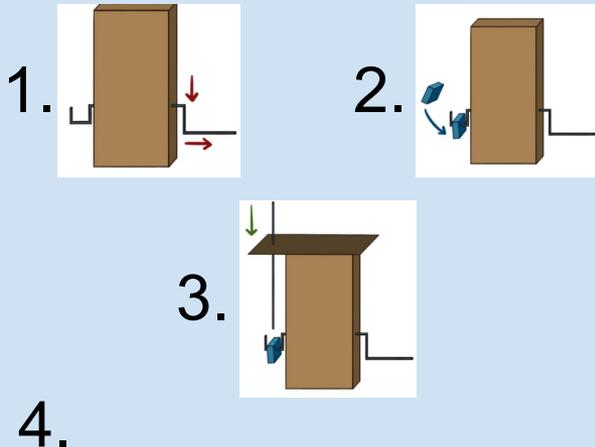
Cranky Contraptions Part 1

Materials:

- Masking tape
- Hole punch
- Scissors
- Elmer's glue
- 2 Small cardboard containers
- Pliers
- Scissors
- Paper Clip/18 gauge wire
- Foam block

Instructions:

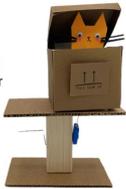
1. Insert the pre-bent wire into the base and push it through so that the bend is close but not touching the base. Make two additional 90o bends, forming an L-shape that will become the handle for the contraption.
2. Add a follower to the U-shaped side of the block. The wire will puncture through the foam on the large flat face, not on the edge.
3. Glue a piece of cardboard on top of the block with a hole punched through it. Thread the second piece of wire through the hole and into the edge of the thick foam.
4. Pick a motion object to create



Peekaboo

Add a box (or another place to hide) so a character can pop out!

bit.ly/box-cranky-contraption



Fixed Constraints Two rigid popsicle sticks create an inching motion when attached together with the up-and-down wire. This worm crawls forward with the help of two stationary constraints at the head and tail.

bit.ly/worm-cranky-contraption



Soft Constraints

Use thin foam as decorative, bendable extremities. These jellyfish tentacles flex as the body moves up and down, as if swimming through the ocean.

bit.ly/jellyfish-cranky-contraption



Double Up and Down A second U-shape bend to the wire adds additional up-and-down motion. These birds fly through the sky thanks to two wire pieces and flexible foam wings.

bit.ly/bird-cranky-contraption

