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All Aged 12
Mississippi
Challenge #3



Describe the problem you want to solve.

- A lot of people have bad breath and they get made fun of so now there is a solution (the Robo 3000). It is great, you put gum in the robot ahead of time, then later when you need it you push the stick at the back and it will dispense it into the pouch.

Problem:

The Gum Robot will solve the problem of losing your gum. When you want it, all you have to do is shoot it out and it will fall right in the cup just for you. It will also solve the problem of bad breath. Anytime you are away from home and you need to fresh up your breath, you can just shoot it out and it will be waiting for you.



Make a list of possible ways to solve this problem.

Solutions: You could brush your teeth every time you eat.

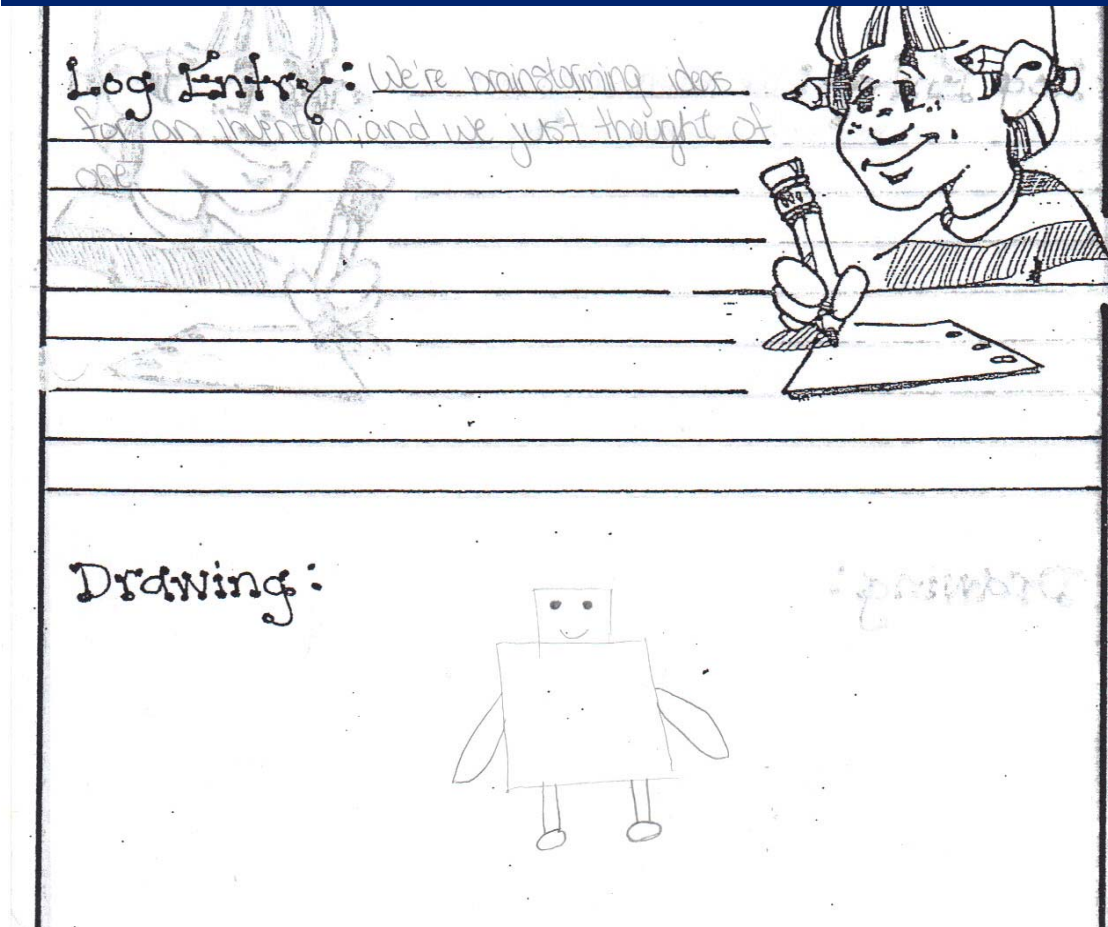
Bring peppermints or candy canes to school

Bring mouthwash to school

You could have an automatic robot gum dispenser



Draw pictures and diagrams to show your invention and how it might work.





Build your prototype. Write down each step so that you will remember exactly how you built your model.

First, you wire the boxes together with metal wire

Next, you wrap the boxes with aluminum foil

Then you decorate it with gum and other accessories

Then you put the pvc pipe in the back

Next you put the extra gum in the robot

And finally you put the gum in the hole and push the pipe and it falls into the pouch



Perform some experiments to find out how well your prototype works. Write down the results of each test.

Does it work	Yes	Yes	Yes
Is it practical	Yes	Yes	Yes
Does it look ok	Yes	Yes	Yes
People surveyed	Tanner	Nick	Emily



How can you improve your prototype?

We could make it out of metal instead of aluminum, or we could have made it out of something besides cardboard.



Give your invention a name and explain why people should buy it.

It is called the Robo 3000

The reason people should buy our product is because it is useful for everyday life. It is also only \$20.00. It is also portable, so if you are in your office or at school just insert the gum ahead of time and when you are ready for it push the pvc pipe and you get gum.

