

BUDDING ENTREPRENEUR | BROWNIE BADGE PROGRAM



Overview

The Brownie Budding Entrepreneur badge is designed to help Girl Scouts at the Brownie level to think like entrepreneurs. Brownies practice coming up with new inventions that might be attractive to consumers, pitching their ideas to others, and working collaboratively to improve their products. After completing all five activities, each participating Brownie will qualify for her Budding Entrepreneur Badge.

How to Complete

The Brownie Budding Entrepreneur Badge Program is offered to Girl Scouts onsite at the National Museum of Dentistry by appointment. To reserve, contact Elise Petersen (NMD Education Coordinator) at epetersen@umaryland.edu or (410) 706-4819. Alternatively, troops may complete this program remotely using the Remote Troop instructions included throughout this guide.

National Museum of Dentistry patches are available for purchase. Girl Scout troops should purchase Junior Playing the Past badges separately at the following link:

<https://www.girlscoutshop.com/BROWNIE-BUDDING-ENTREPRENEUR-BADGE>.

Exhibitions & Materials

- Full museum tour
- For onsite troops, the following materials will be provided by the museum:
 - entrepreneur's journal
 - pencils or pens, colored pencils/crayons/markers
 - drawing paper
- For remote troops, the following materials must be provided by the troop:
 - entrepreneur's journal*
 - pencils or pens, colored pencils/crayons/markers
 - drawing paper

*Printable copy included in this guide



The Dr. Samuel D. Harris
National
Museum of
Dentistry

Step 1: Come up with an idea that makes life better.

Supplies: entrepreneur's journal and pencil or pen for each scout

An entrepreneur is someone who comes up with new ways to solve problems, and many entrepreneurs create businesses with their ideas. The goal is to improve something that already exists, or to create something new that solves a problem. To start, we put on our entrepreneur thinking caps and think about a problem that needs solving!

DENTAL INVENTIONS FROM THE REAL WORLD: MUSEUM TOUR (PART I)

In-person troops will view the following objects on tour stops.

Remote troops may view the below object photographs and discuss the descriptions together.

Toothbrushes with unique bristle shapes

Throughout history and across the globe, toothbrushes have been made in a variety of shapes and sizes. Some might surprise you! This toothbrush is designed to clean the backs of a person's teeth easily and all at once. A toothbrush like this could be useful to young children who are learning how to properly brush their teeth, or to people with disabilities that make thorough toothbrushing a challenge.



Dental Jewelry

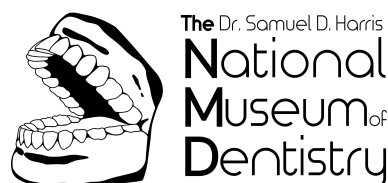
Throughout history and across the globe, people from different cultures have decorated their teeth in various ways. Many people in the ancient Mayan civilization adorned their teeth with jade; Vikings etched lines into their teeth. In Japan, women painted their teeth black! In the early 2000s, Vietnamese immigrant Johnny Dang became a dental entrepreneur when he invented removable, decorative dental grillz like the glow-in-the-dark rainbow grill pictured below. Would you dress up your teeth with a Johnny Dang grill?



Think about your own mouth! What could you invent that would make your smile brighter, your teeth and gums healthier, or your oral hygiene routine more fun? Write your ideas in your journal. Use your imagination! Can you come up with five? Ten?

POSSIBLE RESPONSES

- Floss that plays music or glows in the dark
- Stylish organizer for oral hygiene products (toothbrush, floss, mouthwash, orthodontic supplies)
- Electric toothbrush that flosses while you brush



Step 2: Share your idea with others to get feedback.

Supplies: entrepreneur's journal and pencil or pen for each scout

After jotting down a few ideas for dental inventions in your entrepreneur's journal, stop and discuss your ideas with the person sitting next to you. What are the pros and cons of each of your ideas? What about each of theirs? (For example: musical floss might be great for kids who love music, but not so great for grandparents who feel irritated by loud noises!)

Based on your discussion, narrow down your list of ideas to one that you think is the best.

DENTAL INVENTIONS FROM THE REAL WORLD: MUSEUM TOUR (PART II)

In-person troops will view the following objects on tour stops.

Remote troops may view the below object photographs and discuss the descriptions together.

Dental Toys

In the United States, nearly every generation from the early 20th century has enjoyed some kind of dental-themed childhood toy. Entrepreneurs have invented and manufactured these toys to inspire children to take good care of their teeth and maybe even become dentists themselves. Here at the museum, we have Dentist Barbie, Dr. Drill 'n Fill, dental office playsets, and other dentist-inspired toys.

Have you ever played with one of these? What are the pros of these inventions? In your opinion, are there any cons?



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Shark Tooth Jewelry

In some cultures, animal teeth have been made into religious or ceremonial jewelry. In others, teeth are worn on necklaces and earrings simply for decorative purposes.

Have you ever seen or worn a shark tooth necklace? What are the pros of this invention? In your opinion, are there any cons?



Dollhouse Dental Cabinet

In the 20th century, a woman named Dr. Minnie Evangeline Jordan became the first dentist to write about pediatric dentistry (dentistry for children) as a specialized field. When other dentists followed after her and became specialized pediatric dentists, dental furniture makers began producing dental office cabinets like this one that resembled dollhouses. They thought these cabinets would make dental offices more comfortable for children.

What are the pros of this invention? In your opinion, are there any cons?



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National
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Dentistry

Step 3: Improve your idea.

Supplies: entrepreneur's journal and pencil or pen for each scout; drawing paper and colored pencils/crayons/markers to share

Now that you have narrowed down your idea, think about ways you could make it even better.

DENTAL INVENTIONS FROM THE REAL WORLD: MUSEUM TOUR (PART III)

In-person troops will view the following objects on tour stops.

Remote troops may view the below object photographs and discuss the descriptions together.

Dental Chairs: Then & Now

In the 1800s, dental chairs were much fancier than they are today. Most included soft velvet seats and headrests. By the early 1900s, however, entrepreneurs started producing chairs that had leather and vinyl seats instead. Leather and vinyl seats were much easier to clean and disinfect than velvet seats, which is why your dentist probably uses chairs that look more like the one on the right!



Like the dentist's chair, perhaps your invention would be more effective if made from one material versus another. Could your invention be designed in a way that is easier for people to use? Would it attract more attention from potential buyers if it were made in more than one color? If your invention makes noise, could it be made better with a mechanism to help turn the volume up or down?

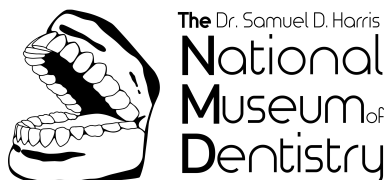
In your entrepreneur notebook, make a prototype in the form of a drawing. Use the product map template to lay out your ideas.

Step 4: Share how your idea works.

Find your partner from Step 2. Explain to them your original idea and how you have improved upon it. What did you change? What inspired you to make that change? How will the change make your invention even better?

Step 5: Pitch your idea to an audience.

Circle up as a troop! Take turns presenting your inventions to the group. Using your drawings, a demonstration, or even a performance of some kind, help your fellow scouts see just how awesome your invention is! Support their inventions in turn. Once everyone has had a chance to present, give a round of applause, and celebrate having earned your Brownie Budding Entrepreneur Badges!



ENTREPRENEUR'S JOURNAL

Brownie Budding Entrepreneur Program



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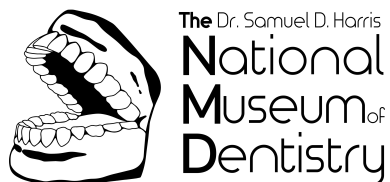


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Step 2: Share your idea with others to get feedback.

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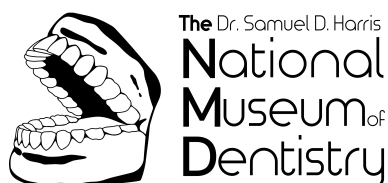
Based on your discussion, narrow down your list of ideas to one that you think is the best.



Step 3: Improve your idea.

Now that you have narrowed down your idea, think about ways you could make it even better. Perhaps your invention would be more effective if made from one material versus another. Could your invention be designed in a way that is easier for people to use? Would it attract more attention from potential buyers if it were made in more than one color? If your invention makes noise, could it be made better with a mechanism to help turn the volume up or down?

Use the product map template on the next page to help you think through your invention and how you might improve it. Make a prototype in the form of a drawing.



PRODUCT MAP

My invention is called:

What does my invention do?

Who is my invention for? How will it make their lives better?

My invention looks like this:

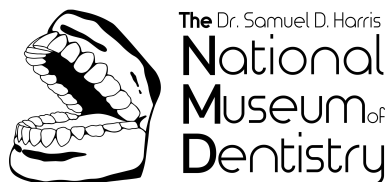


Step 4: Share how your idea works.

Find your partner from Step 2. Explain to them your original idea and how you have improved upon it. What did you change? What inspired you to make that change? How will the change make your invention even better?

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Reflect

Congratulations! You have earned your Brownie Budding Entrepreneur badge. Now that you have earned your badge, you can use your entrepreneur's mind to brainstorm ideas that can help your family, your school, your Girl Scout troop, your community, and yourself! If you wish, spend a few minutes reflecting in your entrepreneur's journal about your experiences in the Budding Entrepreneur program, and anything you feel inspired about with regard to entrepreneurship.

