



# ILLINOIS STUDENT INVENTION CONVENTION

## Invention Logbook

<b>Names of Inventors</b>	Haddie and Mack
<b>Grade Level</b>	4th Grade
<b>Teacher</b>	Mrs. Monke
<b>School</b>	Farmingdale Elementary School
<b>Location</b>	Pleasant Plains, Illinois
<b>Date of When I first thought of my idea:</b>	1.7.24



# FUN TiME FiXER

**Mack Wilcockson and Haddie Hendren**

**Fun Time Fixer**

4th Grade

Farmingdale Elementary School

Pleasant Plains, Illinois

Industry: Health and Medical

Patent Status: None



Fun Time

Fun Time  
Fixer

Fun Time

Fixer

create  
the things  
you wish  
existed



Communicating

Identify



Understand/Research

REFLECT



INVENTION +  
DESIGN  
CYCLE!



Testing

EVALUATE



MAKE  
A  
THING

Build



# Identifying a Problem



Mack

## IDENTIFYING A PROBLEM

### Invention Questionnaire:

Use this form to ask family members and friends about problems that need to be solved. This may help you think of an idea for an invention. You can list problems that...

- Your family/community encounters (Ex. My grandma is in the hospital and is very bored)
- Problems people in the nation/world encounter (Ex: Pollution near factories makes it hard to breathe).
- Problems you encounter. It can be home, school, or other places.

	Name of person or group of people that has this problem	Problem:
1	Kids	Kids get hurt playing sports
2	Parents	Clothes shrink in the wash
3	Teachers	Kids get loud in class
4	Everyone	Pencils break easily
5	Everyone	Markers dry out easily
6	Everyone	Band-aid hurt when they get pulled off
7		
8		
9		
10		



When you peel off the  
band-aid it hurts.

mac & Maddie

# Problem

When you peel off a band-aid it hurts. Band-aids pull your hair and skin when you take them off.

# Understanding the Problem



Dickson wanted a bandage his wife could easily apply herself, so he took two of the company's early products—adhesive tape and gauze—and combined them by laying out a long piece of surgical tape, and then placing a strip of gauze down the middle. To keep the adhesive from sticking, he covered it with crinoline fabric.

Apr 9, 2017



# Innovation

Take a look at where we started to see how our product was invented and how our dedication to healing and innovation has propelled us through the years.



1920

Combining two products from **Johnson & Johnson**—adhesive tape and gauze—Earle Dickson, a cotton buyer, creates a bandage that his wife can apply herself. And the BAND-AID® Brand adhesive bandage is invented.

1921

BAND-AID® Brand adhesive bandages make their first appearance in stores. These early bandages are extra long strips, measuring 3 inches wide and 18 inches long, which need to be cut to fit.



1924

Gone are the cut-to-fit bandages, and

## Value Your Privacy

This website uses cookies to enhance user experience and to analyze performance and traffic on our website. We may also share information about your use of our site with our social media, advertising, and analytics partners.

1926

The iconic tin packaging is debuted by **Johnson & Johnson**. Once people have made use of all the BAND-AID® Brand bandages, the empty tins become reusable canisters to hold everything from nails and buttons to marbles and baseball cards.



1932

BAND-AID® Brand introduces its first waterproof bandage, called the DryBak.

1942

## Value Your Privacy

This website uses cookies to enhance user experience and to analyze performance and traffic on our website. We may also share information about your use of our site with our social media, advertising, and analytics partners.



**1956**

BAND-AID® Brand Stars 'n Strips adhesive bandages hit the market. They are the brand's first mass-marketed, decorated bandages.

**1969**

Bandages reach the moon! BAND-AID® Brand adhesive bandages are part of the medical kit on the Apollo 11



## Value Your Privacy

This website uses cookies to enhance user experience and to analyze performance and traffic on our website. We may also share information about your use of our site with our social media, advertising, and analytics partners.



**1975**

The catchy commercial jingle, "I am stuck on BAND-AID® Brand cuz BAND-AID's stuck on me" is composed. It later won a Clio Award in 1976.

**1990**

Special character BAND-AID® Brand bandages are introduced for the first time, and they're an instant hit with kids.



**1992**

BAND-AID® Brand bandage wrappers become easier to rip into when the red pull-string is replaced with a new tear-apart design.



## Value Your Privacy

This website uses cookies to enhance user experience and to analyze performance and traffic on our website. We may also share information about your use of our site with our social media, advertising, and analytics partners.



2000

The one-billionth BAND-AID® Brand adhesive bandage is produced!



2001

BAND-AID® Brand joins the online world by launching BAND-AID.com.



2017

## Value Your Privacy

This website uses cookies to enhance user experience and to analyze performance and traffic on our website. We may also share information about your use of our site with our social media, advertising, and analytics partners.

2020

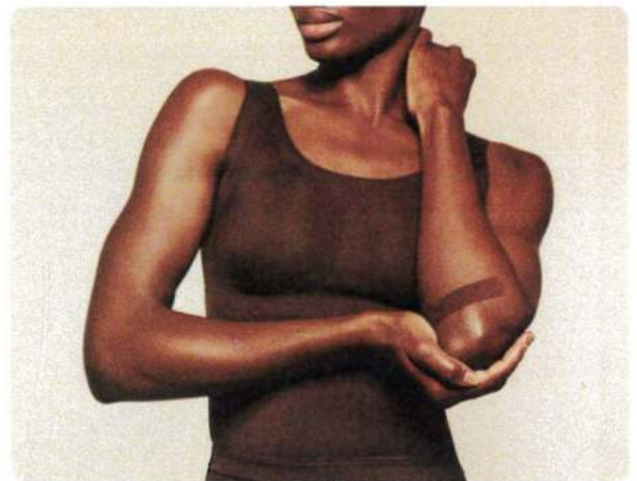


**BAND-AID®** Brand honors its 100th anniversary through its partnership with **CARE.org** and their "100 Days of Care" program.



2021

BAND-AID® Brand introduces **OURTONE™** bandages, designed to better blend with brown skin tones.



## Value Your Privacy

This website uses cookies to enhance user experience and to analyze performance and traffic on our website. We may also share information about your use of our site with our social media, advertising, and analytics partners.

Sports & Outdoors

Customers



Health & Household



This product tries to solve our problem of painful band-aid removal. It is something to spray on the adhesive and lessens the stickiness. We believe that our solution is better because we just use plain water, but then treat kids to a cool tattoo as an award.



Roll over image to zoom in

### BandOff The Bandage Remover, 1.25 Ounce

Brand: BandOff  
3.9 31 ratings

\$9<sup>58</sup>

Get a \$150 Amazon Gift Card instantly with Prime Visa for a limited-time only.

Brand	BandOff
Material	Blend
Size	STD
Item	1 x 1 x 1 inches
Dimensions LxWxH	
Style	Adhesive

#### About this item

- No More "Ouch!": Pull off bandages and tape without discomfort. BandOff releases common bandage and tape adhesives, letting you easily take off hard-to-remove bandages while being gentle on your skin.
- No More Sticky Residue: Say goodbye to the sticky residue left behind by adhesive bandages and tapes thanks to BandOff: The Bandage Remover. This spray doubles as a sticky residue remover, keeping your skin clean
- No More Bruising: Protect sensitive skin from the bruising and pain of removing bandages. BandOff allows you to gently remove even the toughest bandage and tape adhesives. After all, healing shouldn't hurt!
- No More Tears: Calm your child's fears with BandOff, which takes the tears out of bandage removal. The portable spray fits in your purse, so you can have the tear-free solution ready wherever you go
- No More Pulled Hairs: Make bandage removal easy for the whole family. Whether you use it on your child or yourself, count on BandOff to remove even

\$9<sup>58</sup>

FREE delivery November 2 - 3. Details

Deliver to Elizabeth - Springfield 62711

Only 1 left in stock - order soon.

Add to Cart

Buy Now

Payment: Secure transaction  
 Ships from: Royal Meds  
 Sold by: Royal Meds  
 Returns: Eligible for Refund or Replacement

Seller Certifications: Minority-Owned Business

Add to List

New (3) from \$9<sup>58</sup> & FREE Shipping

Niceful



20 Pcs Hydrocolloid Bandages 2x2 \$12<sup>34</sup> \$12.99 ✓prime

Save 5% more with Subscribe & Save

HOW MIGHT WHO BE ABLE TO  
WHAT WHEN CONTEXT ?

HOW MIGHT WHO BE ABLE TO  
WHAT SO THAT WHY ?

If you use water  
and different oils that  
don't hurt the skin  
it will come off  
painlessly.

2024 marks the point that  
100 years ago band-aids were  
invented.

A band-aid cost \$3.99

42.1 million band-aids are  
sold a year.

## UNDERSTANDING THE PROBLEM

What sources did you use to uncover the problem your invention solves and to better understand the situation? Add more rows if needed. *Sources can be websites, books, or interviews with people.*

Source	What I Learned	What this means for my solution
Amazon	We learned that there are tattoo band-aids but it's not a real band-aid	It needs to be a real band-aid
Google	It was the same as amazon the band-aids were not real	We can do anything but <del>it</del> it has to be real
Welly	It did not have anything close to <del>The</del> <del>Fixer</del> <del>FUN TIME</del> Fun Time Fixer	Does not <u>hurt</u> .

# How to Remove a Band Aid Painlessly

Co-authored by Luba Lee, FNP-BC, MS

Last Updated: October 27, 2023    Approved

Applying clean adhesive bandages (Band-Aids™) is an important part of hygienic wound care for minor cuts and scrapes. Removing the bandage, however, is not always a pleasant process. Don't skip applying a bandage to avoid the pain of removing one, however. Instead, try one of several methods to make removing a bandage less painful (or even painless).

## Method 1 of 2: **Weakening Bandage Adhesive**

**1 Soak the bandage in water.** You've probably had the misfortune of coming across someone's used bandage floating in the gutter of a public swimming pool, and therefore are aware that exposure to water weakens a bandage's adhesion to skin.

- No, don't go to your public pool. Soak in the bathtub for a bit, and then try removing the bandage. A leisurely shower may work as well.
- You can also just apply a wet compress (such as a clean rag soaked in warm water) to the bandage and wait for it to soak through.
- Taking a 15- to 20-minute bubble bath can help loosen the adhesive as well and it can be especially useful for kids.

**2 Use oils, soaps, creams, or lotions to weaken and lubricate the adhesive.** People swear by different products -- olive oil, petroleum jelly, baby shampoo, or baby oil, to name a few -- but the process is similar regardless. Try different variations and see what works best for you and your family.

- Use a cotton ball, cotton swab, or just your finger to massage the product into the adhesive areas of the bandage. Work it in and allow it to saturate those areas of the bandage.
- Peel a corner of the bandage up to see if the adhesion has been weakened. If not, keep working in the oil or soap.
- If so, peel away the rest of the bandage in a quick motion. Gently press the surrounding skin down, if necessary.
- One tip for kids is adding food coloring to baby oil so they can see it. Rub it onto the bandage with cotton swabs. Make it a fun experience.

wikiHow Learning Assistant

Powered by ChatGPT

Do you have more questions about this article? Ask and get answers right away.

Ask Question

**3 Lubricate extra-sticky bandages even more.** Instead of yanking off a stubbornly-stuck bandage quickly, weaken the adhesive as mentioned in the last step, peel up a corner, then apply moisturizing lotion to the contact point between skin and bandage as you continue to slowly pull it away.

**4 Dissolve the adhesive with alcohol.** You can also use the lubricating technique with rubbing alcohol. The adhesive should slowly but surely dissolve, and any adhesive remaining on the skin can be rubbed away with the saturated cotton ball or swab.

- There are also adhesive removal products marketed for bandage removal. Check medical or surgical supply stores if not available at your drugstore.

Advertisement

ethod  
2

Method 2 of 2:

## Applying Bandages Properly

**1 Don't avoid removing a bandage by not using one.** One of those bits of "old-time" wisdom that still circulates today is the idea that it is better to clean a small cut, then let it "air out" and scab over. Like putting butter on a burn or tilting your head back during a nosebleed, however, this is false.

- Small wounds actually heal better in a moist environment, in which blood vessels regenerate faster and inflammation-causing cells multiply more slowly. So, preventing scab formation actually aids the healing process.<sup>[1]</sup>
- It may be no surprise that the company behind Band-Aids promotes covering cuts and scrapes instead of airing them out, but they have science on their side.<sup>[2]</sup>

**2 Prepare wounds properly for bandaging.** Sometimes the worst part of pulling away a bandage is not the sticky adhesive, but dried blood / scabbing that pulls away with the bandage and reopens the wound. Proper preparation can make this less likely.<sup>[3]</sup>

- Stop the bleeding of a minor cut or scrape by applying pressure with gauze, a paper towel, a clean cloth, etc. Apply gentle pressure for up to 15 minutes, until all bleeding has stopped.
- For a large cut or wound, an excessively dirty wound, or a wound that won't stop bleeding, get medical help.
- Rinse the area with clean water and gently clean the wound again and pat dry with a clean cloth, etc. Don't use hydrogen peroxide or old wound cleaners your grandfather swore by -- just plain water. Hydrogen peroxide and iodine can irritate an injury.

wikiHow Learning Assistant  
Powered by ChatGPT

Do you have more questions about this article? Ask and get answers right away.

Ask Question

3





welly ↓

- water proff band-aid
- does not hurt if you pull it off
- kids band-aid
- smaller
- cost more money
- Less stretch
- 40, 24. set

We documented  
different  
band-aids



## Flexible Fabric

- not water proof
- flexible
- bigger
- not as kid friendly
- costless money
- more stretch
- easy to pull off if you put some thing on it.

Made in 1920, Introduced in facts

- 1921. Cut a little patch of gauze, placed it at the center of an adhesive strip. - and Invented the band-aid. Earle Dickson had a wife who got hurt a lot.  
He Invent the band-aid.
-

# Ideating

Goal of our invention: To make a  
band-aid that does not hurt.

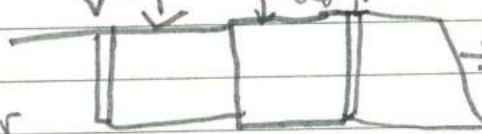
bandaid

the band-aid

stiky silk

foam foam cloth

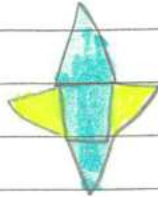
has to be water proof



same thing has other side side

was going to be the box



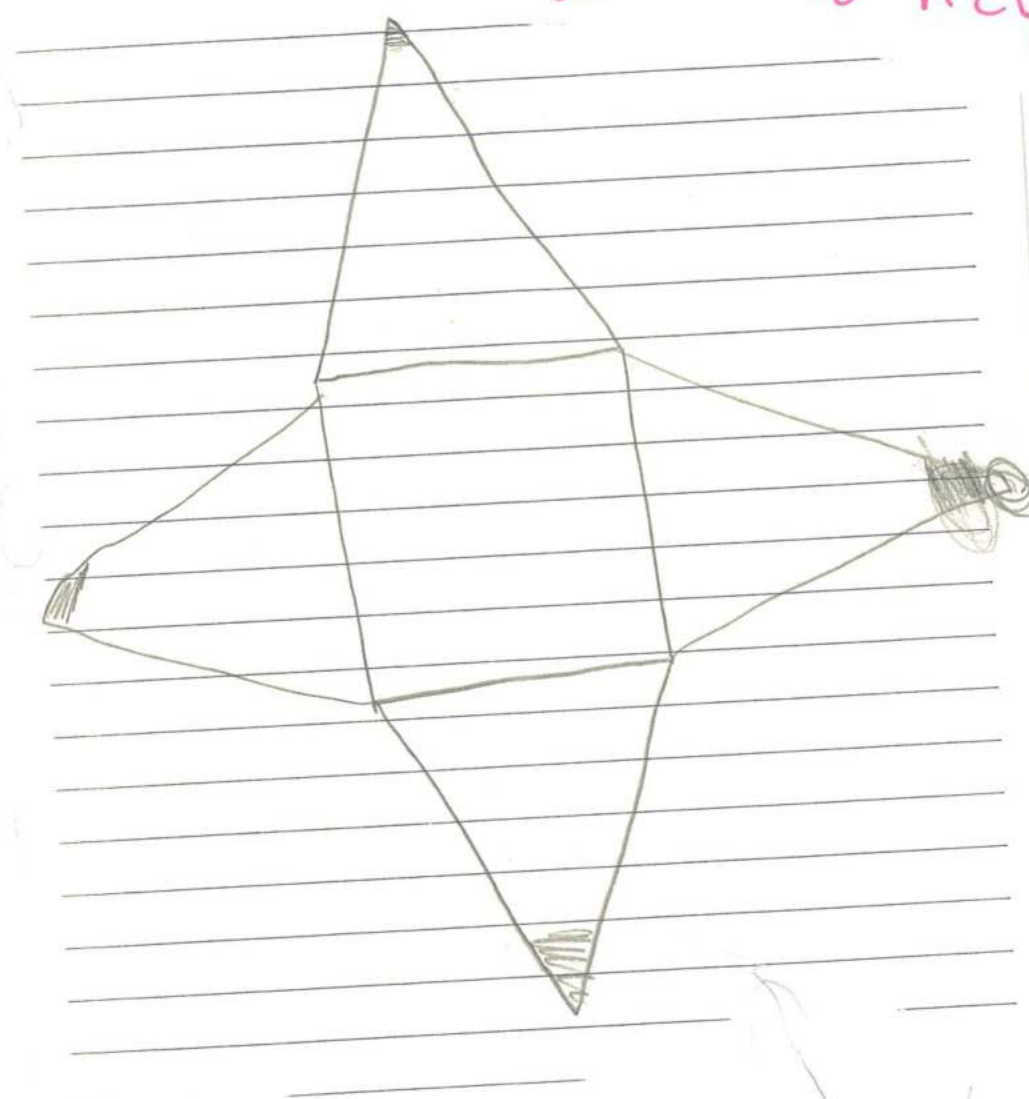


Band-  
aid that  
would be  
four  
sided  
to cover  
more  
scratches

Some  
types  
of band-aids

Big Band-aid  
to help cover

Scratches  
more  
than  
normal



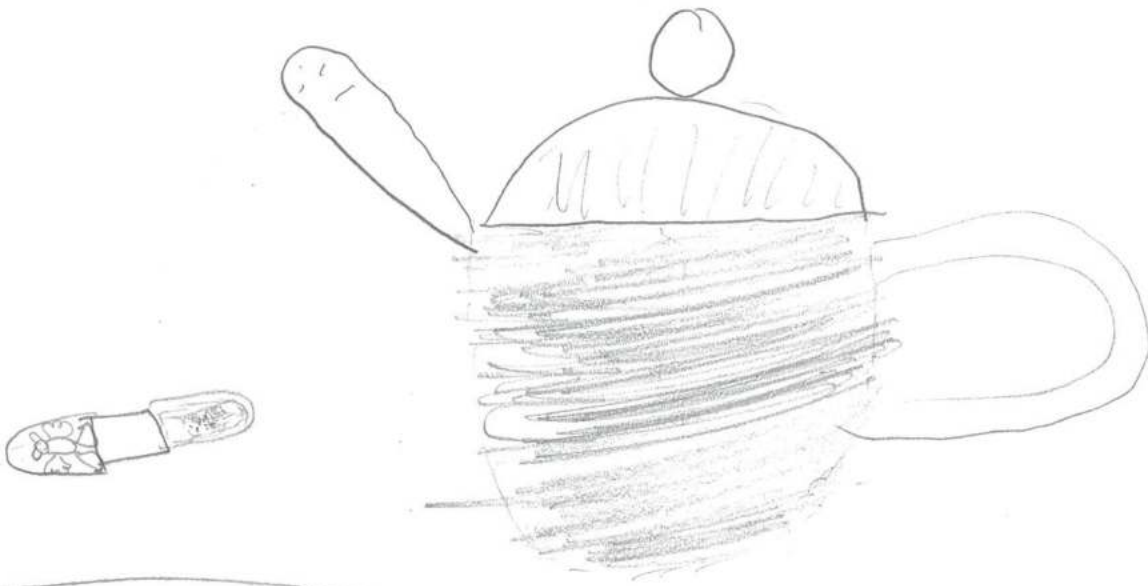
a band-aid

## Ideas:

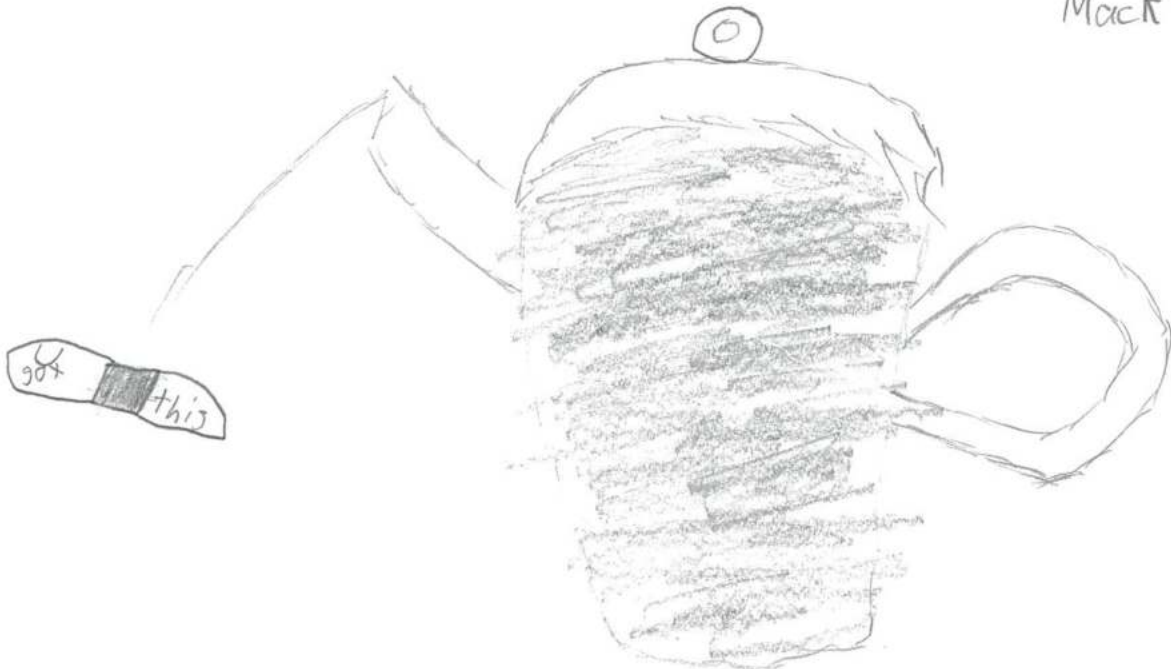
- make the process of band-aid removal more fun
  - magic potion that makes it not hurt
  - Super hero potion
  - cute poem / song from parent to kid
  - create new super hero for removal
- potion is baby oil on cotton ball ?



Haddie!



Mack





a pot to hold  
water and pour it  
on the band-  
aid



A thing that  
would hold the  
oils



# Designing and Building

# Inventive Thinking

Now that you have some exciting possibilities for your invention project, you need to use your critical thinking skills to narrow down the possible solutions.

1. Is my idea practical? *Yes*
2. Can it be made easily? *Maybe*
3. Is it as simple as possible? *yes*
4. Is it safe? *yes*
5. Will it cost too much money to make or use? *no*
6. Is my idea really new? *yes*
7. Will it withstand use, or will it break easily? *no it will not*
8. Is my idea similar to something else? *no break will not*
9. Will people really use my invention? (Survey your classmates or people you know to document the need or usefulness of your idea.)

*yes*

# Prototype #1

The good thing about this prototype  
that it can slide on top of your boob-  
boo. The bad thing is it can't go on a  
leg, high on your arm, and not on your face. Plus that  
it did not fit kids, That is why we did not go  
with it.

First prototype

bracel~~et~~



tape



strip of gauze



# Prototype #2



4mc

Are 2nd prototype was a slap bracelet. We like that we did not have adhesive and could adjust to various sizes. But it wouldn't stay on top of the beo-boos. This

is why we want to do it.


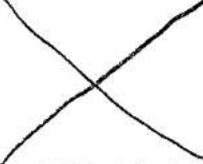


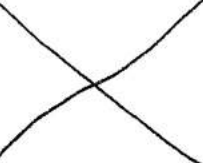
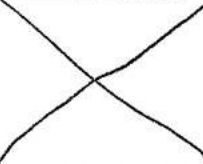



Prototype 2



Our teacher taught us how to SCAMPER our idea. The “C” in SCAMPER stands for combine. We love our idea of combining a band-aid and tattoo!!!

Mack

# Band-aid

Put an X by each way you chose to SCAMPER	Ways to SCAMPER	Tell how the object changed
	<b>S</b> ubstitute something	adhesive
	<b>C</b> ombine things	tatoo  
	<b>A</b> dapt or Add something	pencil
	<b>M</b> inify, Magnify, Modify	smaller
	<b>P</b> ut it to another use	a sticky note
	<b>E</b> liminate something	adhesive
	<b>R</b> earrange or reverse	adhesive on outside

# Band-aid

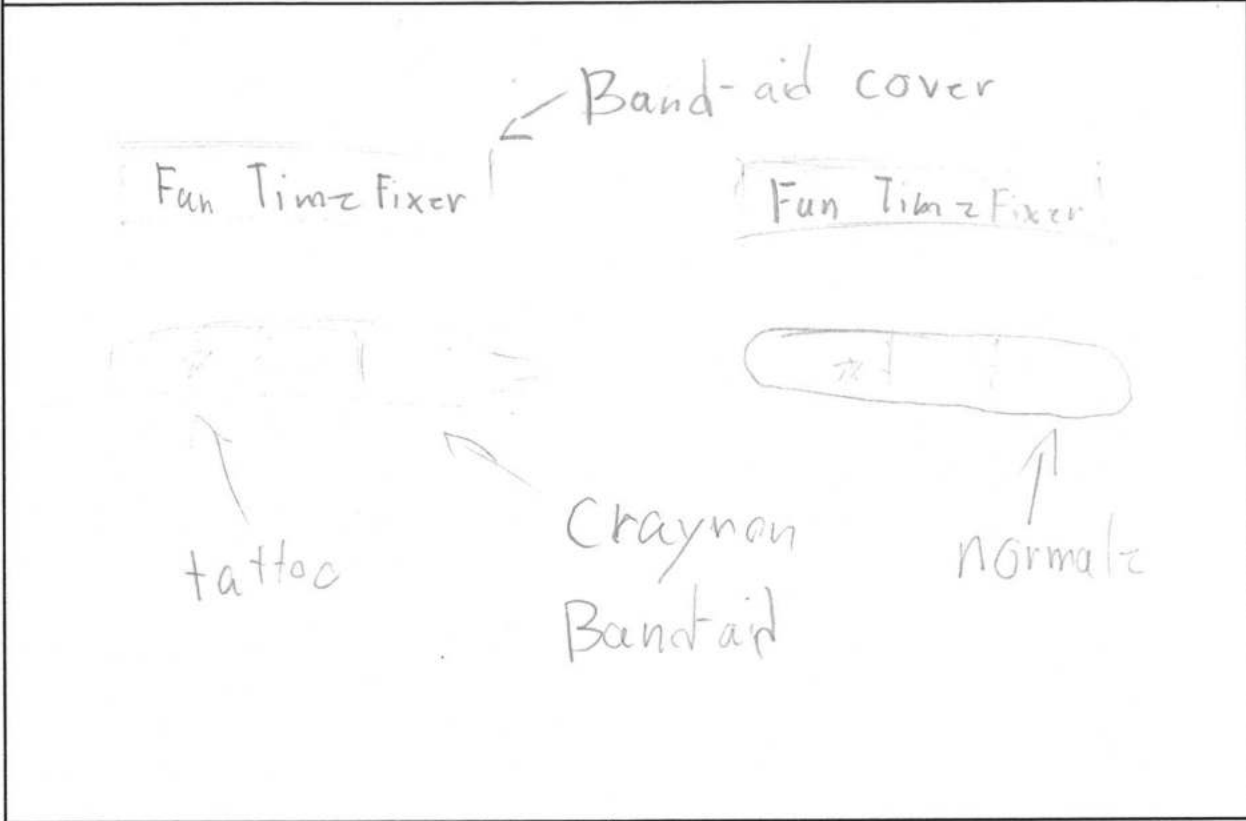
Put an X by each way you chose to SCAMPER	Ways to SCAMPER	Tell how the object changed
	<b>S</b> ubstitute something	
X	<b>C</b> ombine things	tattoo ★
	<b>A</b> dapt or Add something	
	<b>M</b> inify, Magnify, Modify	
	<b>P</b> ut it to another use	
	<b>E</b> liminate something	
	<b>R</b> earrange or reverse	

# Ideating

We tried different ideas to make the perfect band-aid. First, we made a bracelet with gauze. It didn't work because it didn't stay on very well. It also didn't fit on different sized arms and legs. Then, we tried to attach gauze and tape to a slap bracelet. It kept slipping off the boo-boo. Finally, we found temporary tattoos and thought a tattoo could make taking off band-aids fun! The tattoo band-aid also needed water in order to work. We had learned in our research that water was one way to make it less sticky. Our tattoo band-aid was our best idea.

# DESIGNING & BUILDING

Create a model or drawing of your design. Make sure to label the parts.



What materials may work well? Why?

What materials may not work well? Why?

- Band-aids  
 - Tattoo  
 Because  
 the tattoo will  
 stick to the band-aid

- Gause  
 - Tape  
 - Bractet  
 Because  
 they did not  
 combine we  
 we but the

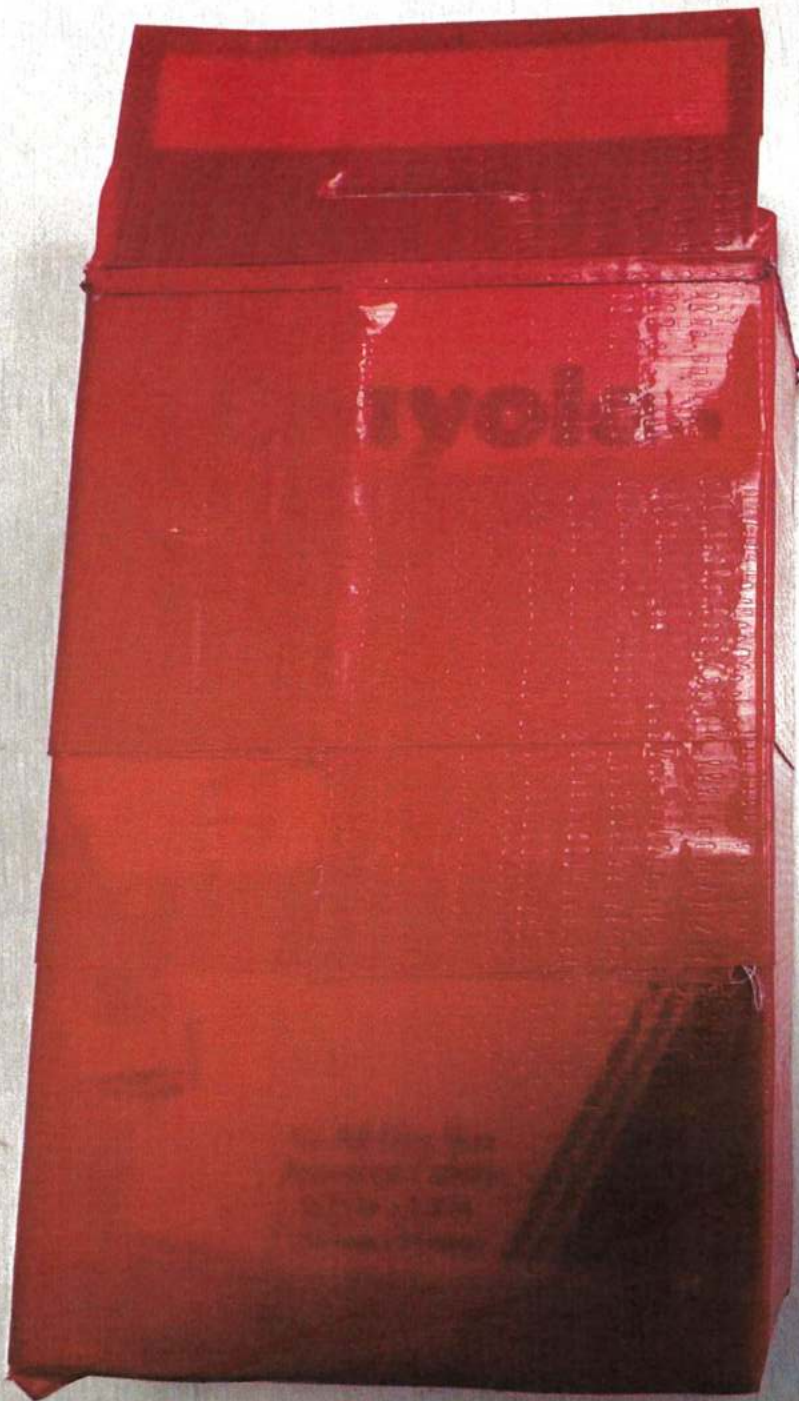
Gause on the Bractet  
 then we would have to  
 lot of tape

Put a

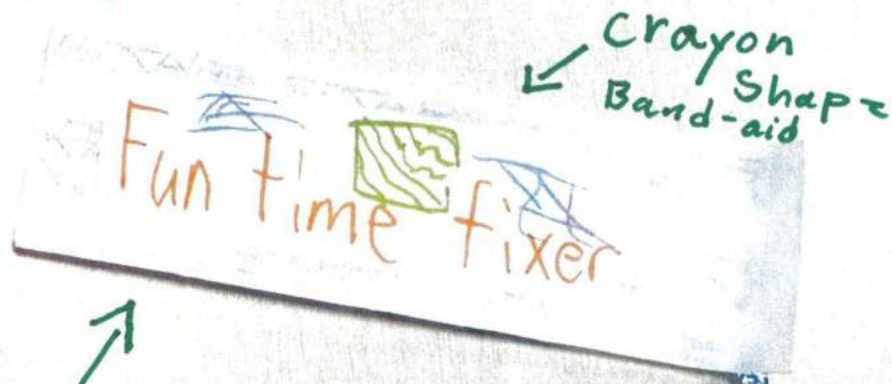
# Final Invention



3rd prototype



← ~~Over~~ Arc  
are box that hold  
the bandaid



tattoo  
Band-aid



normal  
Shape

tattoo Band-aid

# How it works

The Fun Time Fixer works by combining a traditional band-aid with a hidden surprise: a temporary tattoo. When applied to a minor injury, such as a cut or scrape, the band-aid functions like a regular one to protect the wound.

However, when you take it off, the Fun Time Fixer reveals a temporary tattoo underneath instead of pain.

# Materials Used

Materials I Will Need	How I Can Get It (Recycled, Donated, Location)
Band-aids	target
tattoo	Amazon

# Materials/ Earnings

Materials to make our product:

Band-aids - 100 band-aids for \$8.49 on Amazon

Tattoos - 90 temporary tattoos for \$7.99 on Amazon

Recycled Crayon Box - Free

Tape to cover the box - \$2.00 on Amazon

We are able to make 90 bandaids for \$18.48. We plan to divide these into boxes that will contain 10 band-aids.

We are able to make 9 boxes for \$18.48. Each box will cost us around \$2.05 to make. We believe we could sell each box for around \$8.00. We would earn about \$5.95 each time we sold a box of Fun Time Fixer Band-aids.

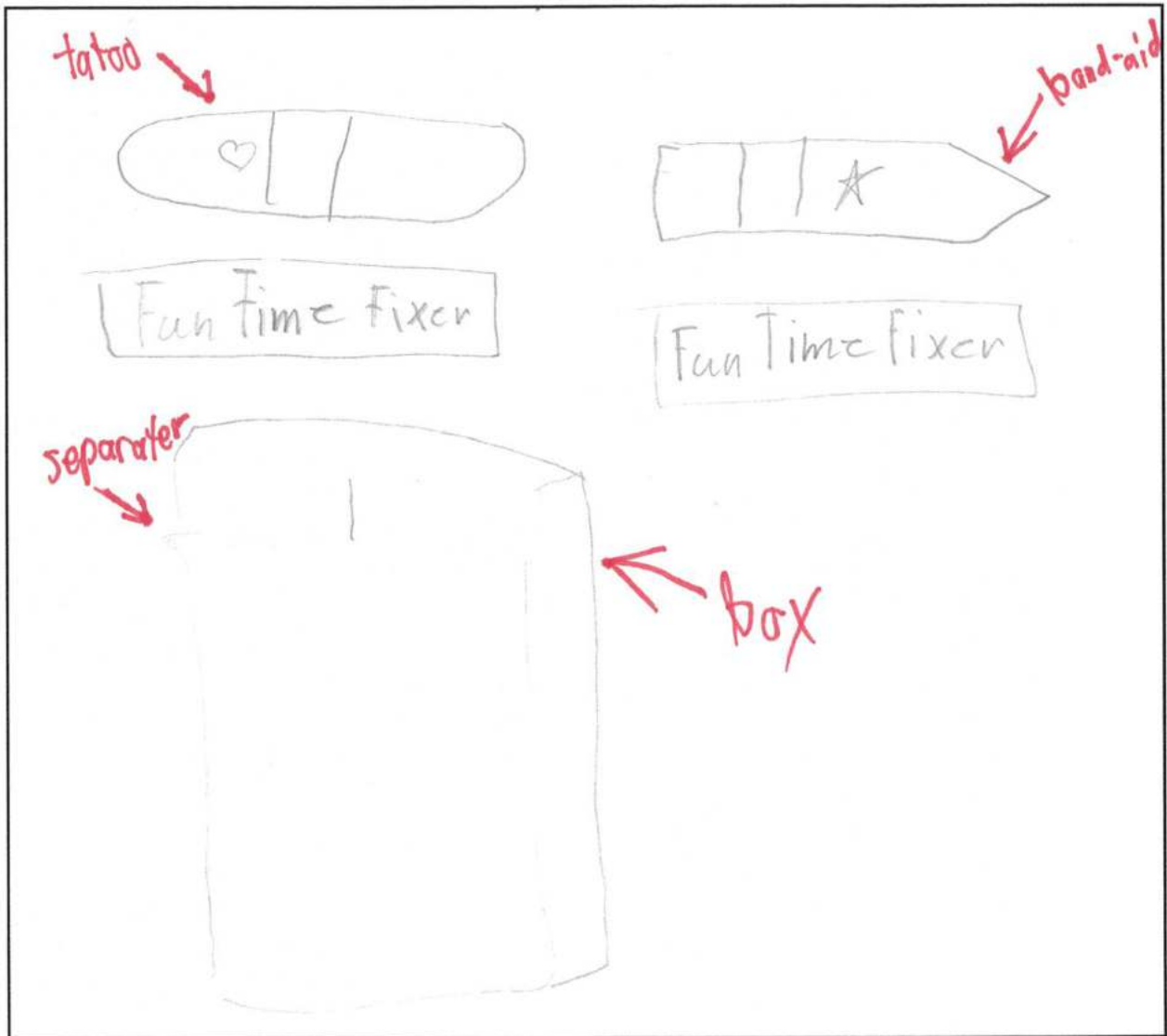
# FINAL INVENTION SUMMARY

Name of Invention: *Fun time fixer*

How did you come up with this name?

*brain stormed it*

Sketch of Final Invention (with labels on parts)



Final Materials Used:

Material & Amount	Where did you get this?	Cost
Crayon band-aids	target	1.00
tattoos	Amazon	2.00

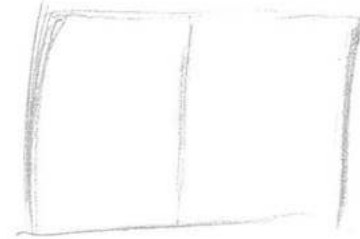
# Blueprint



Fun Time Fixer



Fun Time Fixer





# Names for the invention

- TB
- Tattoo Band-aid
- fun fixer-upper
- fun time fixer ★

• Ultimate Band-Aid<sup>®</sup> x

• The big Band-Aid<sup>®</sup> x

• Tattoo band<sup>®</sup> x

• Tattoo Relief<sup>®</sup> ~~Bandage~~ x

• Tan time fixer<sup>®</sup> <sup>winner</sup> x

• Tattoo TLC<sup>®</sup> x

• Easy peel patch<sup>®</sup> x

band-aids

2 inches

3 inches

box

height: 4 inches

length: 3 inches

Holdie

# Solution

We made a painless bandaid that is fun. With our new bandaid, kids are rewarded with a surprise for being brave.

Has this solution or something similar been done before? If so, what would you want to change or improve to make your solution better? Add more rows if needed.

Invention or already existing solution	Place/Site You Found Information	How will your invention be different
Band-aid Does not hurt.	amazon	It will reveal a tattoo
fake band-aids	Google	It is real

# Solution

Our Fun Time Fixer band-aid is much better than a regular band-aid. Instead of hurting when you take it off, it's fun! When you remove the Fun Time Fixer a surprise tattoo appears. It's like getting a little present after your boo-boo goes away. Getting a boo-boo doesn't have to be sad anymore with our Fun Time Fixer!

# Testing

We tested on our classmates  
• and made sheets to tell us  
feedback and we gave them  
our band-aid and a regular  
band-aid and saw what  
we needed to change and  
• make better we found out  
that we needed to tell  
them that a band-aid was  
there and to make sure  
they push down on the  
• wet cloth and then it  
worked better.




















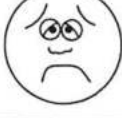
Name: \_\_\_\_\_

## Fun Time Fixer

Thank you for helping us test our new product.

### Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
Bandage #2 hurt when removing.	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
Bandage #1 was fun.						
Bandage #2 was fun.						
I would purchase bandage #1.						
Which one did you like better?	<b>#1</b>			<b>#2</b>		

Name: Aive

## Fun Time Fixer

Thank you for helping us test our new product.

### Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	 0 No Hurt	 2 Hurts Little Bit	 4 Hurts Little More	 6 Hurts Even More	 8 Hurts Whole Lot	 10 Hurts Worst
Bandage #2 hurt when removing.	 0 No Hurt	 2 Hurts Little Bit	 4 Hurts Little More	 6 Hurts Even More	 8 Hurts Whole Lot	 10 Hurts Worst
Bandage #1 was fun.						
Bandage #2 was fun.						
I would purchase bandage #1.						
Which one did you like better?						




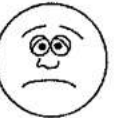










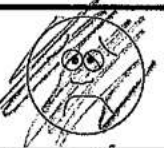












Name: Grayson

## Fun Time Fixer

Thank you for helping us test our new product.

### Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
Bandage #2 hurt when removing.	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
Bandage #1 was fun.						
Bandage #2 was fun.						
I would purchase bandage #1.						
Which one did you like better?		<b>#1</b>			<b>#2</b>	

It still color full

















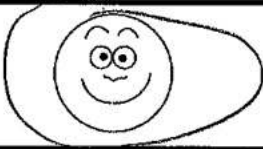

Name: August

## Fun Time Fixer

Thank you for helping us test our new product.

### Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	     
	<p><b>0</b>                      <b>2</b>                      <b>4</b>                      <b>6</b>                      <b>8</b>                      <b>10</b></p> <p>No Hurt                      Hurts Little Bit                      Hurts Little More                      Hurts Even More                      Hurts Whole Lot                      Hurts Worst</p>
Bandage #2 hurt when removing.	     
	<p><b>0</b>                      <b>2</b>                      <b>4</b>                      <b>6</b>                      <b>8</b>                      <b>10</b></p> <p>No Hurt                      Hurts Little Bit                      Hurts Little More                      Hurts Even More                      Hurts Whole Lot                      Hurts Worst</p>
Bandage #1 was fun.	 
Bandage #2 was fun.	 
I would purchase bandage #1.	 
Which one did you like better?	<p><b>#1</b>                      <b>#2</b></p>



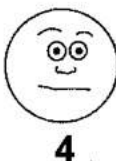
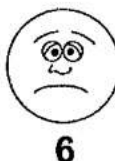
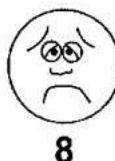



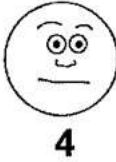











Name: *Rejwan*

## Fun Time Fixer

Thank you for helping us test our new product.

### Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
Bandage #2 hurt when removing.	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
Bandage #1 was fun.						
Bandage #2 was fun.						
I would purchase bandage #1.						
Which one did you like better?						

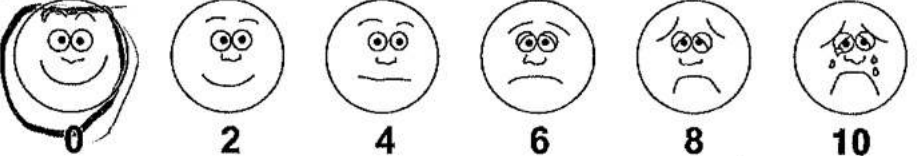
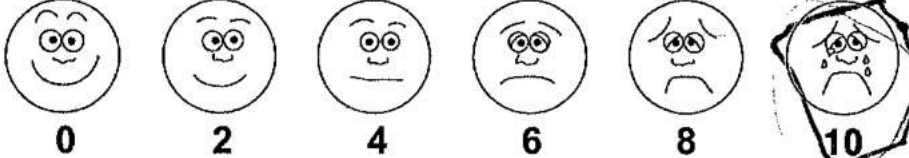




Name: *Ryan*

# Fun Time Fixer

Thank you for helping us test our new product.

**Directions:**

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	 <p>0 No Hurt    2 Hurts Little Bit    4 Hurts Little More    6 Hurts Even More    8 Hurts Whole Lot    10 Hurts Worst</p>
Bandage #2 hurt when removing.	 <p>0 No Hurt    2 Hurts Little Bit    4 Hurts Little More    6 Hurts Even More    8 Hurts Whole Lot    10 Hurts Worst</p>
Bandage #1 was fun.	
Bandage #2 was fun.	
I would purchase bandage #1.	
Which one did you like better?	







Name: *Layla*

## Fun Time Fixer

Thank you for helping us test our new product.

### Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	 <p>A horizontal row of six faces representing a pain scale from 0 to 10. The faces show increasing levels of discomfort from a neutral smile to a crying face. The number 0 is circled in black.</p>
Bandage #2 hurt when removing.	 <p>A horizontal row of six faces representing a pain scale from 0 to 10. The faces show increasing levels of discomfort from a neutral smile to a crying face. The number 2 is circled in black.</p>
Bandage #1 was fun.	 <p>A horizontal row of two faces. The left face is a neutral smile, and the right face is a sad face. The neutral smile face is circled in black.</p>
Bandage #2 was fun.	 <p>A horizontal row of two faces. The left face is a neutral smile, and the right face is a sad face. The neutral smile face is circled in black.</p>
I would purchase bandage #1.	 <p>A horizontal row of two faces. The left face is a neutral smile, and the right face is a sad face. The neutral smile face is circled in black.</p>
Which one did you like better?	 <p>Two large numbers, #1 and #2, are shown. The number #1 is circled in black.</p>






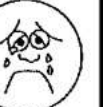














Name: Daniel

## Fun Time Fixer

Thank you for helping us test our new product.

### Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
Bandage #2 hurt when removing.	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
Bandage #1 was fun.						
Bandage #2 was fun.						
I would purchase bandage #1.						
Which one did you like better?						




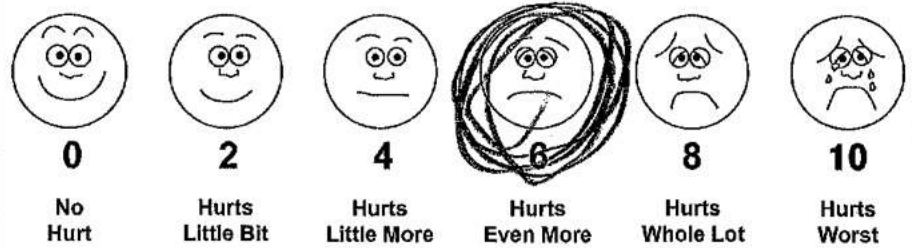




Name: *Ryen*

## Fun Time Fixer

Thank you for helping us test our new product.

### Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	 <p>A horizontal row of six faces representing a pain scale from 0 to 10. The faces show increasing levels of discomfort from a neutral smile to a crying face. The number 0 is circled in black.</p>
Bandage #2 hurt when removing.	 <p>A horizontal row of six faces representing a pain scale from 0 to 10. The faces show increasing levels of discomfort from a neutral smile to a crying face. The number 6 is circled in black.</p>
Bandage #1 was fun.	 <p>A horizontal row of two faces. The left face is smiling and circled in black. The right face is sad.</p>
Bandage #2 was fun.	 <p>A horizontal row of two faces. The left face is smiling. The right face is sad and circled in black.</p>
I would purchase bandage #1.	 <p>A horizontal row of two faces. The left face is smiling and circled in black. The right face is sad.</p>
Which one did you like better?	 <p>Two large numbers, #1 and #2, are shown. The number #1 is circled in black.</p>

Name: *Rowley*

## Fun Time Fixer

Thank you for helping us test our new product.

### Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
Bandage #2 hurt when removing.	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
Bandage #1 was fun.						
Bandage #2 was fun.						
I would purchase bandage #1.						
Which one did you like better?				<b>#2</b>		

Name: *Ruby*

# Fun Time Fixer

*1 problem was it did not come on but other wise it's ok.*

Thank you for helping us test our new product.

## Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	0 No Hurt	2 Hurts Little Bit	4 Hurts Little More	6 Hurts Even More	8 Hurts Whole Lot	10 Hurts Worst
Bandage #2 hurt when removing.	0 No Hurt	2 Hurts Little Bit	4 Hurts Little More	6 Hurts Even More	8 Hurts Whole Lot	10 Hurts Worst
Bandage #1 was fun.						
Bandage #2 was fun.						
I would purchase bandage #1.						
Which one did you like better?		#1		#2		













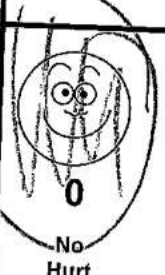







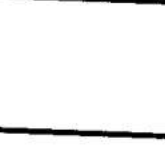





Name: *Kamryn Skars*

## Fun Time Fixer

Thank you for helping us test our new product.

### Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

						
Bandage #1 hurt when removing.						
Bandage #2 hurt when removing.						
Bandage #1 was fun.						
Bandage #2 was fun.						
I would purchase bandage #1.						
Which one did you like better?						



















Name: LU

## Fun Time Fixer

Thank you for helping us test our new product.

### Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
Bandage #2 hurt when removing.	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
Bandage #1 was fun.						
Bandage #2 was fun.						
I would purchase bandage #1.						
Which one did you like better?		<b>#1</b>		<b>#2</b>		

kate









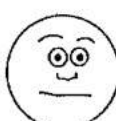
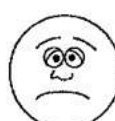








Name:

# Fun Time Fixer

Thank you for helping us test our new product.

## Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	 0 No Hurt	 2 Hurts Little Bit	 4 Hurts Little More	 6 Hurts Even More	 8 Hurts Whole Lot	 10 Hurts Worst
Bandage #2 hurt when removing.	 0 No Hurt	 2 Hurts Little Bit	 4 Hurts Little More	 6 Hurts Even More	 8 Hurts Whole Lot	 10 Hurts Worst
Bandage #1 was fun.	Yay					
Bandage #2 was fun.	Yay again					
I would purchase bandage #1.						
Which one did you like better?	#1 both #2					

Ryan  
Loyd

Name:

## Fun Time Fixer

Thank you for helping us test our new product.

### Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

Bandage #1 hurt when removing.	 0 No Hurt	 2 Hurts Little Bit	 4 Hurts Little More	 6 Hurts Even More	 8 Hurts Whole Lot	 10 Hurts Worst
Bandage #2 hurt when removing.	 0 No Hurt	 2 Hurts Little Bit	 4 Hurts Little More	 6 Hurts Even More	 8 Hurts Whole Lot	 10 Hurts Worst
Bandage #1 was fun.						
Bandage #2 was fun.						
I would purchase bandage #1.						
Which one did you like better?	#1			#2		









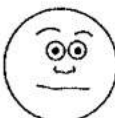











Name: Leo

# Fun Time Fixer

Thank you for helping us test our new product.

## Directions:

1. Remove both bandages from their wrappers.
2. Put bandage #1 on left wrist.
3. Put bandage #2 on right wrist.
4. Wet the paper towel with water.
5. Cover bandage #1 with the wet towel for 30 seconds.
6. Peel and remove bandage #1 and bandage #2 from skin.
7. Allow surprise under bandage #1 to dry.
8. Color the chart to let us know about your experience.

<p>Bandage #1 hurt when removing.</p>	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
<p>Bandage #2 hurt when removing.</p>	 <b>0</b> No Hurt	 <b>2</b> Hurts Little Bit	 <b>4</b> Hurts Little More	 <b>6</b> Hurts Even More	 <b>8</b> Hurts Whole Lot	 <b>10</b> Hurts Worst
<p>Bandage #1 was fun.</p>						
<p>Bandage #2 was fun.</p>						
<p>I would purchase bandage #1.</p>						
<p>Which one did you like better?</p>						



Fun	Good	Averiaag
4.00	2.00	3.50
5.00		They pay 4.50 because tatoos

feedback  
look at  
band-aid  
prices

## TESTING & REFINING

List the changes or improvements you made that differed from the original plan. Why did you make those changes? List at least 4. Add more lines if needed.

1.

We put a tattoo on the band-aid.

2.

Switch to a colorfull band-aid

3.

We made sure that the tattoo was not on the gaze.

4.

We made sure there were 2 types of band-aid with tattoo.

Impact



# Societal Impact

Our invention helps make a difference in how kids feel about getting boo-boos. It no longer hurts to take a band-aid off and it does not pull your skin and hair. When you take off the Fun Time Fixer, you get a surprise tattoo. This makes kids happy instead of hurting. Now getting a boo-boo is more fun!

# Impact

Our invention, the Fun Time Fixer, has made a big difference in how kids feel about getting boo-boos. When they take off the Fun Time Fixer, they get a surprise tattoo, which makes them happy instead of hurting. Our friends at school loved it too, and we think kids everywhere will too. We hope our invention will change how people see band-aids and make getting boo-boos a little bit more fun for everyone!

# Market Potential



Environmental/Societal Impact:

<p>Who is this invention going to help?</p>	<p>People <del>      </del></p>
<p>How did you try to eliminate waste or limit pollution as you created your invention?</p>	<p>We used reuseable stuff</p>
<p>List any data or evidence that proves why your invention is useful.</p>	<p>We found out that you could not feel pain</p>



Market Potential:

<p>How much is this invention going to cost for someone to buy one?</p>	<p>\$3.00</p>
<p>How did you determine the cost?</p>	<p>20 tattoos cost 2.00 + 20 band-aids \$3.00</p>
<p>Who would be the buyers of this invention?</p>	<p><del>Mom, Dad, peoplz.</del> everyone</p>
<p>What stores/places would you sell your invention at?</p>	<p>target, Amazon, and Sams Club, Walgreens</p>



# Our idea is original!

We looked for a product like ours that is a band-aid that also has a tattoo.

Place	Closest similar product	Nothing similar found	
Target		X	
Walmart		X	
Walgreens		X	
Medical Supply Store		X	
Amazon			This is just a temporary tattoo that is shaped like a band-aid. It is not an actual first aid item.
Band-aid.com			Band-aid brand sells a product that has some healing gel on the inside of the bandage. This is like our idea because there is something on the inside adhesive of the band-aid. It is different because it is not a tattoo.
Kingpin Tattoos		X	
Google Patents		X	
<a href="https://www.uspto.gov/patents/search">us-to.gov/patents/search</a>		X	

# Our Final Invention

# Originality

We searched on the Internet and in stores for something like our Fun Time Fixer. We didn't find anything. Nobody has ever combined first-aid and tattoos like we did. We were able to find temporary tattoos that were shaped like band-aids, but they were not meant to put on a real cut or scrape.

We looked for any current patents similar to our invention on Google patents. We did not find anything similar.

Our invention is original and there is currently nothing you can buy like it.

# Original Idea

Summarize how your invention is different or better than similar solutions that may already exist.

Our Idea is not like anything out there but there are band-aids that are all tattoos that are shaped like band-aids and there are just regular band-aids that have not been combined with tattoos.

# Materials

Materials to make our product:

Band-aids - 100 band-aids for \$8.49 on Amazon

Tattoos - 90 temporary tattoos for \$7.99 on Amazon

Recycled Crayon Box - Free

Tape to cover the box - \$2.00 on Amazon

We are able to make 90 bandaids for \$18.48. We plan to divide these into boxes that will contain 10 band-aids.

We are able to make 9 boxes for \$18.48. Each box will cost us around \$2.05 to make. We believe we could sell each box for around \$8.00. We would earn about \$5.95 each time we sold a box of Fun Time Fixer Band-aids.

## Pitch Requirements

- State your name.**
- Start with a Hook/Grabber** to draw your audience's attention.
- You will introduce how your invention helps solve a problem.
  - Personal story narrative
  - What else can you think of as it relates to your device?
- Include a clear **definition** of the problem.
- Include a clear **explanation** of the invention and how it works.
- Know the User** of the product - **WHO** are the consumers and **HOW/WHERE** can they use your device?
- Refer to visual representation:** Make sure the audience can see your product and understand how it works.
- Your pitch should last no longer than 5 minutes.**

<b>People in group</b>	Haddie & Mack
------------------------	---------------

# Nationals Pitch

Hi! I'm Mack Wilcockson and I'm Haddie Hendren. We are in 4th grade at Farmingdale Elementary School in Pleasant Plains, Illinois, and we invented the Fun Time Fixer.

It was a sunny day last spring, and I was having a blast at the park. Suddenly, my attention was drawn to a little girl nearby who was in tears. She had taken a tumble off the monkey bars and was in need of some comfort. Her mom rushed over with a bandaid and a kiss for her boo-boo. But as soon as the bandaid was on, the little girl started peeling it off bit by bit, and her cries only seemed to get louder with each tug. It seemed like taking off the band-aid hurt more than the fall itself! I knew at that time something with bandaids needed to change because band-aids just hurt too much when you pull them off.

We researched and learned that bandaids were invented in 1920 and their sticky design hasn't really changed. They have always been applied with an adhesive that pulls your skin and hair when removed. When removed, they usually leave your skin with a big white spot and a lot of pain. It was time for band-aids to change. We wanted to invent a band-aid that didn't hurt when removed and didn't leave that white mark.

Our first attempt was to try to ditch the adhesive altogether. We made a decorative bracelet with built-in gauze that kids could wear. We loved that we no longer had to deal with glue, but it just wouldn't stay on top of the injury. This bracelet band-aid also wasn't able to adjust to different sized arms and legs. We had to keep thinking.

Next we designed a slap bracelet with gauze and tape. We finally found something that didn't have adhesive and could adjust to various sizes, but it just kept slipping off the wounded area. It was clear that this wouldn't work.

In class we had just learned about the SCAMPER way to brainstorm good ideas. I tried to apply the "C" and combine a band-aid with different things. While hunting for inspiration in my junk drawer at home, I spotted some temporary tattoos. What if removing the band-aid revealed a cool tattoo instead of a painful mark? Seeing a tattoo after you remove a band-aid would sure be better than a white spot! That's when our amazing Fun Time Fixer concept was born.

# Nationals Pitch

In our final prototype, children are treated to a special surprise: a temporary tattoo hiding under their band-aid. Once the boo-boo has healed and it's time to remove the band-aid, a simple yet magical thing happens.

Kids just need a wet cloth. They wrap the cloth around the band-aid and give it a little hug for about 30 seconds. The water in the cloth will not only activate the tattoo but also lessens the stickiness of the adhesive. The band-aid come off easily without hurting, and kids are thrilled to show off their awesome, new tattoo. So cool, right?

After presenting the Fun Time Fixers to our state judges, one judge had a great question: What happens if you wear the Fun Time Fixer in the shower or bath? Does the tattoo pop out too soon? Honestly, we hadn't even thought about that, so back to ideating we went! We are now working with our teacher to make our Fun Time Fixer even better. We are working on having a waterproof layer over the outside of the band-aid. This layer will stay until you want to see your tattoo. We think this plan will work great.

In all of our Fun Time Fixer redesigns, we are making sure our product is safe. We have talked with our school nurse who is helping us keep our Fun Time Fixer germ free. We are making sure our tattoo ink will not interfere with the healing of a wound.

We were really surprised to find out that there's nothing else out there like our Fun Time Fixer. Our Fun Time Fixer is original! We looked everywhere, online and in stores, trying to find something like it, but we couldn't find anything. On Amazon we found some temporary tattoos that were shaped like bandaids, but they were just a decoration and aren't for real boo-boos.

We even spent time hunting for a patent like our idea. We searched on Google Patents and US Patent and Trademark services. We thought maybe someone beat us to our cool idea. But guess what....we are first. The Fun Time Fixer is original and we are so excited.

Our friends think it's a great idea too. We tested our product with other fourth-graders at our school. We designed a test with 2 band-aids - one regular one and one Fun Time Fixer with our hidden tattoo. We asked them



## Nationals Pitch

to rate how much it hurt to take off and how fun it was. They definitely thought ours was less painful, and all they wanted to talk about was their tattoo surprise. We did learn that we need to make the directions more clear for how to take the band-aid off, because kids just don't want to follow directions. We are definitely adding to our instructions.

We're really proud to invent something that can help kids feel better when they get hurt. We are able to make our product easily with simple supplies, so it won't cost much more than a regular band-aid. We're planning to make themed band-aids in the future. Imagine band-aids with tattoos of your favorite sports, storybook characters, holidays, or movies. There are so many possibilities.

Our band-aids will change the way that kids and adults treat boo-boos around the world. With the Fun Time Fixer in your bag, we're sure that the only tears in the playground will be after the fall, and not after the band-aid.

# **Illinois Judge's Feedback**

*Absolute WOW! This is so cool! How original, there is nothing like this now and never has been before. This bandage and temporary tattoo combination solves a problem people of all ages deal with when they use band aids. This could be a cute and fun solution for all ages! Has this been tested with other bandage sizes and shapes? Also, thinking of marketing, the name itself doesn't fully give away what the product does. It may be eye-catching on the shelf in a drugstore, but what about online or media marketing? Will it take too much to explain with the current name? Something to think about as you grow, scale, and optimize this idea. Hopefully this turns into a real business!*

*Really excited to see how far you can take your design and solution in this market as it is very important to you as end users!*

*I still don't like when a band aid gets pulled off!*

*When you think about all the applications - is this best suited for schools where younger kids can relate to the solution and the creative artwork and designs?*

*If we went crazy and thought outside the box - did you consider a spray or some time of application that would not need any materials or that type of adhesive?*

*What would you do differently with design or testing?*

*As someone who has very sensitive skin I always dread taking my band aids off when I need them to cover up a scrape or cut. Your idea to not only make a band aid that not only doesn't hurt when it's removed but leaves a tattoo behind is very creative. I'm very impressed by your research into the origin of band aids and testing of different products on the market. I think it'd be helpful for you to share even more about the impact this problem has on others such as from the other students you surveyed. Great job solving the problem you identified at the beginning, I can tell you're excited about your invention and I enjoyed learning about it!*

*I loved your pitch, you were both so engaging and excited and know your talking points. I love how the soaking time softens the adhesive and activates the tattoo. You may want to think through how it would act in a bath/shower... maybe a waterproof top that is removed once the boo-boo is healed!? Very clever idea and great job pitching it!*

*Great job on your presentation, details in the logbook, and prototype. It was great to see it was a working prototype and very unique as well. It would have been great to touch upon any medical issues that might come up with applying a temporary tattoo to or near wound. Since it contains foreign material, research around what type of safe tattoos ink that could be used near a wound would have been great to see. Overall, what a fantastic invention. Being in healthcare myself, I could see this being a hit especially with the kids!*

*Hi Haddie and Mack,*

*It was exciting watching your presentation on how to make the process of band-aid removal more fun and less hurtful. Thank you for taking the initiative to bring happiness to kids. The presentation was full of energy, the set up was on point and the background designs kept me focused. You guys clearly demonstrated how to use and remove the prototype. You did well!*

*I believe that, you should have shown in the video presentation feedback from classmates that took part in the test.*

*Fun time fixer has a great potential in the market because it allows kids to design tattoos with their favorite storybook characters, is cost effective and designed from sustainable materials.*

*Overall, you guys did a wonderful job.*

## Positive Feedback:

**Judge 1:** “This is so cool! How original, there is nothing like this now and never has been before. This bandage and temporary tattoo combination solves a problem people of all ages deal with when they use band aids. This could be a cute and fun solution for all ages! Hopefully this turns into a real business!”

**Judge 2:** “Really excited to see how far you can take your design and solution in this market as it is very important to you as end users! I still don’t like when a band aid gets pulled off!”

**Judge 3:** “Your idea to not only make a band aid that not only doesn’t hurt when it’s removed but leaves a tattoo behind is very creative. I’m very impressed by your research into the origin of band aids and testing of different products on the market. Great job solving the problem you identified at the beginning. I can tell you’re excited about your invention and I enjoyed learning about it!”

**Judge 4:** “I loved your pitch, you were both so engaging and excited and know your talking points. I love how the soaking time softens the adhesive and activates the tattoo. Very clever idea and great job pitching it!”

**Judge 5:** “Great job on your presentation, details in the logbook, and prototype. It was great to see it was a working prototype and very unique as well. Overall, what a fantastic invention. Being in healthcare myself, I could see this being a hit especially with the kids!”

**Judge 6:** “It was exciting watching your presentation on how to make the process of band aid removal more fun and less hurtful. Thank you for taking the initiative to bring happiness to kids. The presentation was full of energy, the set up was on point and the background designs kept me focused. You guys clearly demonstrated how to use and remove the prototype. You did well! Fun Time Fixer has a great potential in the market because it allows kids to design tattoos with their favorite storybook characters, is cost effective, and designed from sustainable materials. Overall, you guys did a wonderful job!”

Haddie

## Constructive Feedback:

Judge 1: "The name itself doesn't fully give away what the product does."

## Fun Time Fixer Response:

We are thinking that we want to keep the name because it is Fun to do it, Time means in Fun Time Fixer is that it does ~~what the title~~ that means time to do it and Fixer means it fixed how much bee bee hurt and how band-aids hurt when pulled off.

Thank you,  
Fun Time Fixer

Mack

## Constructive Feedback:

Judge 1: "Has this been tested with other bandage sizes and shapes?"

**Fun Time Fixer Response:** Yes, we have tried different band-aids but we have not tried different shapes and sizes. That is something we are going to try to test in the future. However, we have the different band-aids like I mentioned and they are different brands so one is bigger and one is smaller.

Haddie

### Constructive Feedback:

Judge 2: "Did you consider a spray or some type of application that would not need any materials or that type of adhesive?"

### Fun Time Fixer Response:

We did find a product <sup>that is a spray</sup> ~~like~~ that, But  
it stings and it is very painful to do  
So that why we went to band-aids, slap bracket,  
and bracket.

Thank you



Mack

### Constructive Feedback:

Judge 3: "It would be helpful for you to share even more about the impact this problem has on others such as from the students you surveyed."

**Fun Time Fixer Response:** We thought we would survey them and just move on and just use it to make it better, but we could talk about it more.

Mack

## Constructive Feedback:

Judge 4: "You may want to think through how it would act in a bath/shower"

**Fun Time Fixer Response:** We have thought about that and we are in the middle of testing it. We saw the feedback and thought that that was a big problem because a lot of people take baths and showers everyday.

Haddie

### Constructive Feedback:

Judge 5: "Touch upon any medical issues that might come up with applying a temporary tattoo to or near wound. Research what type of safe tattoo ink can be used near a wound."

846

Nurse  
Mrs. Wachtwert

### Fun Time Fixer Response:

"It will not effect the boo boo at all".

Mack

## Constructive Feedback:

Judge 6: "You should have shown in the video presentation feedback from classmates that took part in the test."

**Fun Time Fixer Response:** We are thinking about adding and changing our pitch a little so we were thinking about adding it in there somewhere.



We spent time every day working on our project. The research step was the hardest step. Ideating and building were our favorite steps.



We practiced our pitch so we could get it just right.



We love working with our teacher and classmates.

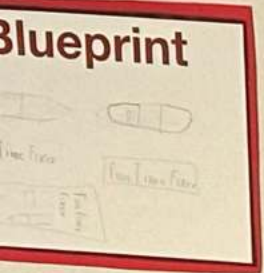


### How it works

The Fun Time Fixer works by combining a traditional band-aid with a hidden surprise: a temporary tattoo. When applied to a minor injury, such as a cut or scrape, the band-aid functions like a regular one to protect the wound. However, when you take it off, the Fun Time Fixer reveals a temporary tattoo underneath instead of pain.

We were so excited to meet with the state judges over Zoom. We met at our school on a Saturday morning.





Ho  
The  
train  
temp  
such  
low  
con  
th



Fun Time  
Fixer

Prototype

Fun Time  
Fixer

Blueprints and when they get  
Mock of  
Prototype

Iterations

It was so much fun to share our invention with the state judges!



# Fun Time Fixer

John and Haddie Hendren

Elementary School  
Illinois  
and Medical

## Blueprint



## Impact

Our invention, the Fun Time Fixer, has made a big difference in how kids feel about getting their shots. When they take off the Fun Time Fixer, they get a surprise tattoo, which makes them happy instead of hurting. Our friends at school loved it too, and we hope more people see their shots and make getting them a little bit more fun for everyone!



## How it works

The Fun Time Fixer works by using a special adhesive to hold the Fun Time Fixer in place. When you peel it off, it leaves a tattoo. The tattoo is a fun surprise that makes getting your shot a little bit more fun for everyone!





## How it works

The Home Run Healer is a small first aid kit designed for kid athletes. It attaches to sports bags like a keychain and includes everything needed to care for a minor injury. It has a unique design and is built on an ice pack. With the Home Run Healer, young athletes can confidently handle minor injuries while showing off their love for sports in style.

**Felix Armenta and Ben Ciccì**  
**Homerun Healer**  
4th Grade  
Farmingdale Elementary School  
Pleasant Plains, Illinois  
Industry: Health and Medical  
Patent Status: None

## Improvements

When we started inventing the Home Run Healer, we tried different versions to see what worked best. First we made a big med kit in a tackle box, but it was too big and heavy. Then, we tried attaching it to a bag with Velcro, but it kept falling off. So, we came up with the idea for the Home Run Healer, a small first aid kit that looks like a cool keychain. It hangs on your sports bag and has everything you need for small injuries. We made it stylish and practical. It's perfect for young athletes like us!

## Problem

It was hard to find a first aid kit that was small and easy to carry.

## Solution

We designed a small first aid kit that looks like a cool keychain. It hangs on your sports bag and has everything you need for small injuries. We made it stylish and practical. It's perfect for young athletes like us!

## Iterations

We tried different versions of our first aid kit to see what worked best. We started with a tackle box, but it was too big and heavy. Then we tried attaching it to a bag with Velcro, but it kept falling off. Finally, we came up with the Home Run Healer, a small first aid kit that looks like a cool keychain. It hangs on your sports bag and has everything you need for small injuries. We made it stylish and practical. It's perfect for young athletes like us!

# Fun Time Fixer

**Mack Wilcockson and Haddie Hendren**  
**Fun Time Fixer**  
4th Grade  
Farmingdale Elementary School  
Pleasant Plains, Illinois  
Industry: Health and Medical  
Patent Status: None

## Impact

Our invention, the Fun Time Fixer, has made a big difference in how kids feel about getting boo-books. When they take off the Fun Time Fixer, they get a surprise boo-book, which makes them happy instead of fuming. Our friends at school loved it too, and we hope kids everywhere will too. We hope our invention will change how people see boo-books and make getting boo-books a little bit more fun for everyone!

# Remark

**The Magical Marker Reviver**

**Truett Messersmith and Hayden Heidemann**  
**Remark: The Magical Marker Reviver**  
4th Grade  
Farmingdale Elementary School  
Pleasant Plains, Illinois  
Industry: Consumer Goods  
Patent Status: None

## Solution

Our prototype revives a dried up marker so you can use it again.

## Impact

Not only does Remark save money and reduce waste, but it also has a positive environmental impact by keeping markers out of landfills and reducing plastic consumption.

## How it works

After trying over 100 different ideas, we developed a 3D-printed lid containing a liquid solution to revive them. Simply place a dried-out marker in the holder, snap it in, and shake and voila! Remark was born. Our invention is so simple and easy to use, Remark can be on every student's desk without any special equipment. We hope Remark will be the coolest one marker at a time.

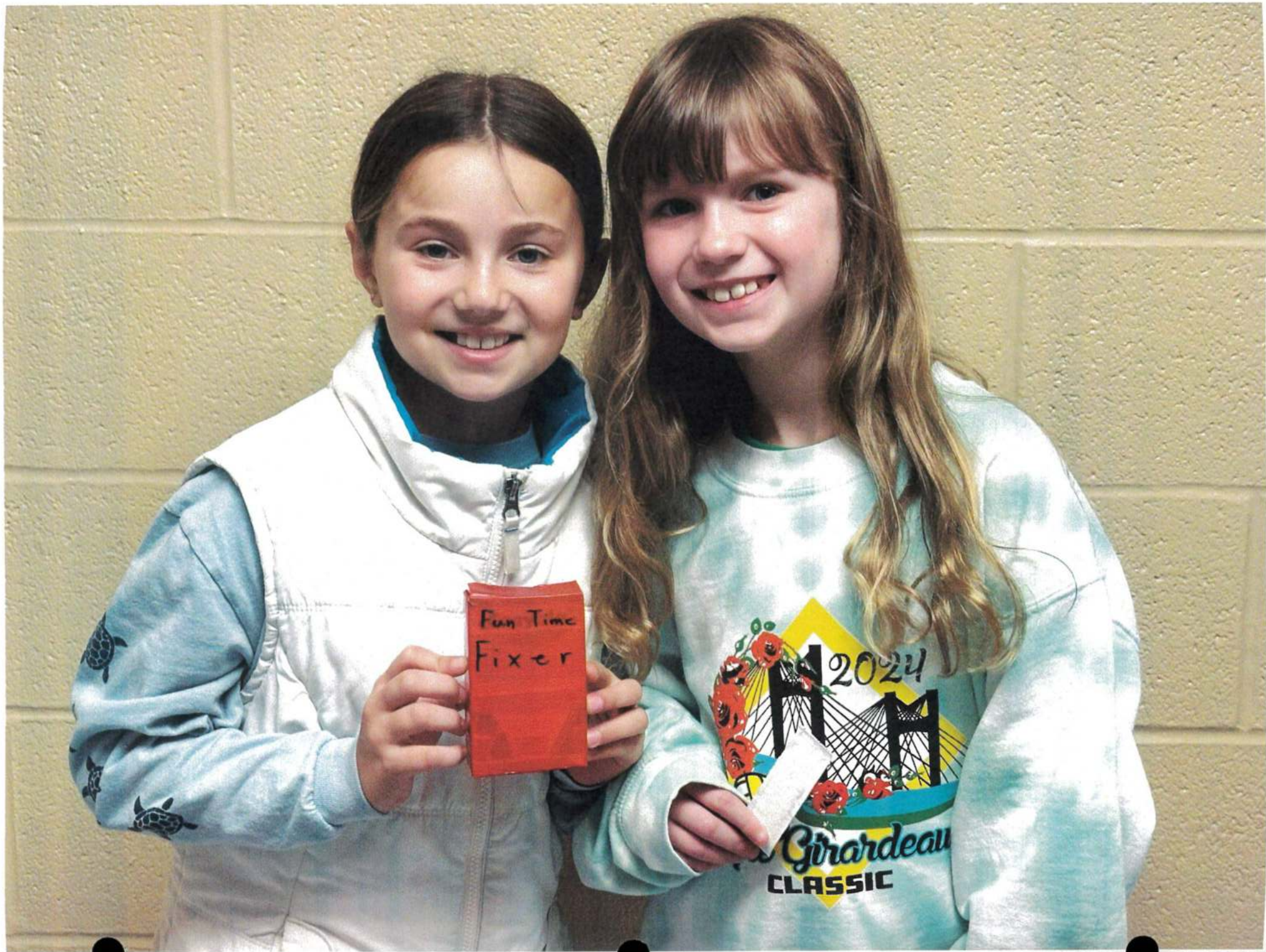
After weeks of brainstorming, testing, and trying things out, we made Remark - 3D printed lid designed to hold and contain a liquid solution to revive them. Simply place a dried-out marker in the holder, snap it in, and shake and voila! Remark was born. Our invention is so simple and easy to use, Remark can be on every student's desk without any special equipment. We hope Remark will be the coolest one marker at a time.



We were interviewed by our local TV station WAND News.



The news reporter loved our invention and thinks its a great idea!



Fun Time  
Fixer

2024  
Girardeau  
CLASSIC

## Problem

When you peel off a band-aid it hurts. Band-aids pull the skin and when you take them off.

## Solution

We made a painless band-aid that is fun. Our Fun Time Fixer band-aid is much better than a regular band-aid. Instead of hurting when you take it off, it's fun! With our Fun Time Fixer band-aid, kids are rewarded with a surprise temporary tattoo for being brave. The tattoo makes the band-aid less sticky so it doesn't hurt when you take it off. Kids are happy with their surprise.

## Understanding

We researched to try to learn ways to make a band-aid less sticky and painful when removed. We learned that soaking the band-aid with water or different oils helps. A band-aid will come off easier and won't hurt as much. It will come off painlessly.

## Ideating

We had different ideas to make the perfect band-aid. First, we made a bracelet with gauze. It didn't work because it didn't fit on different sized arms and it wasn't very well. It also didn't fit on different sized arms and it wasn't very well. It also didn't fit on different sized arms and it wasn't very well. Then, we tried to attach gauze and tape to a slap bracelet. It kept slipping off the boo-boo. Finally, we found temporary tattoos and thought a tattoo could make taking off band-aids fun! The tattoo band-aid also needed water in order to make it less sticky. Our tattoo band-aid was our best idea.

## Improvements

We tried different ideas to make the perfect band-aid. First, we made a bracelet with gauze, but it didn't stay on very well. Then, we tried a slap bracelet with gauze and tape, but it kept slipping off. Finally, we found temporary tattoos and thought they could make taking off band-aids fun! That's how we came up with the Fun Time Fixer band-aid. That shows a cool tattoo when you take it off.

# FUN TIME FIXER



## Blueprint



## Originality

We searched on the Internet and in stores for something like our Fun Time Fixer. We didn't find anything. Nobody has ever combined first-aid and tattoos like we did. We were able to find temporary tattoos that were shaped like band-aids, but they were not meant to put on a real cut or scrape.

We looked for any current patents similar to our invention on...

## How the Fixer works

The Fun Time Fixer combines a temporary tattoo. You just stick a band-aid over your cut or scrape. When it heals, you take the band-aid off. The tattoo will have a really cool temporary tattoo.

## Market Research

We tested our invention with our friends and family. We gave them a band-aid and then we gave them our Fun Time Fixer. They loved it. We learned that kids like to have a surprise when they take off a band-aid. We also learned that kids like to have a tattoo. We saw that kids need a band-aid so that the tattoo would stay on. We saw that kids need a band-aid so that the tattoo would stay on. We saw that kids need a band-aid so that the tattoo would stay on.

## Impact

We're really proud to invent something that helps kids feel better when they get hurt. We are able to make a band-aid that is fun and doesn't hurt. We're planning to make themed band-aids with tattoos of your favorite characters, holidays, or movies. There are many ways to use our band-aids. Our band-aids will change the way that kids feel about getting boo-boos around the world. With the Fun Time Fixer, we are sure that the only tears in the playground will be from happiness, not after the band-aid.

## Materials

Materials to make our product:  
Band-aids - 100 band-aids for \$8.49  
Tattoos - 90 temporary tattoos for \$7.99  
Recycled Crayon Box - Free  
Tape to cover the box - \$2.00 on Amazon

We are able to make 90 band-aids for \$11.48. We are able to make 9 boxes for \$18.48. We believe that we can sell each box for around \$2.05 to make. We would earn \$18.48 each time we sold a box of Fun Time Fixer.

## Societal Impact

Our invention helps make kids feel better about getting boo-boos. When you take off a band-aid, you get a tattoo. This is a really cool idea.

Our national project board and display

# Fun Time Fixer

### Problem

Band-aids hurt when they are pulled off.

### Impact

No one else has ever seen mine and when you pull it off you also have a surprise present that is really interesting and a little bit scary.

### How it works

The Fun Time Fixer works by combining a traditional band-aid with a hidden surprise, a temporary tattoo. When applied to a minor injury, like a cut or scrape, the band-aid functions like a regular one to protect the wound. However, when you take it off, the Fun Time Fixer reveals a temporary tattoo underneath instead of pain.

### Problem

Sports injuries are hard to treat because proper medical equipment is not available.

### Research

We knew we needed expert advice. So, we talked to doctors and dentists in our community to understand what young athletes might need in a first aid kit. They encouraged us to keep going and even suggested ideas for future kits, like finger splints and bug spray. Their insights helped us create a product that's both practical and cool for kids like us.

### Solution

We made a med kit with sport injury supplies and necessary information. This convenient kit clips to your sports bag.

### Mack Wilcockson and Haddie Hendren

Fun Time Fixer  
4th Grade  
Farmingdale Elementary School  
Pleasant Plains, Illinois  
Industry: Health and Medical  
Patent Status: None

### Blueprint

### How it works

The Fun Time Fixer works by combining a traditional band-aid with a hidden surprise, a temporary tattoo. When applied to a minor injury, such as a cut or scrape, the band-aid functions like a regular one to protect the wound. However, when you take it off, the Fun Time Fixer reveals a temporary tattoo underneath instead of pain.

Final Prototype

Iterations

Pitch

Band-aids hurt when they get pulled off.

Mack & Haddie

Logbook

Iterations

Our regional project board and display