



UPDATES Date March 26 '2025

Today they will update/tell us what we can research in depth and what will be good to add on the trifold

~ They have seen the prototype and said it was good but ~~they~~ they may have some ideas

~ The methods is great (when the app is finished fully the sentences **may change** to longer or **completely** different) *

SCIENCE FAIR UPDATE

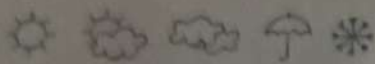
15 days
LEFT

till Judging!

14 from

SETUP @ olympic oval.
UofC ≈ ↘
university of calgary ♥

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Date / /

Update from the person!

- more in depth on current solutions including:

- companies

- how there design is

- how is ours better

- What does it do/how does it work

- pricing

- cons

- issues with their product

in the end we should explain how ours is better

IF we get time we should choose better material for the box like)

- Plastic

- Wood

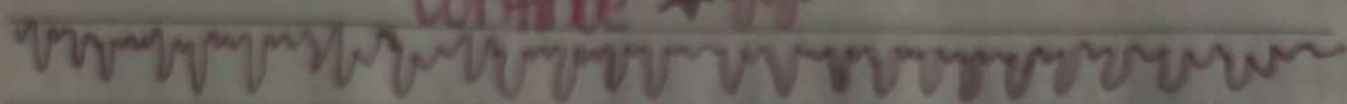
- Steel

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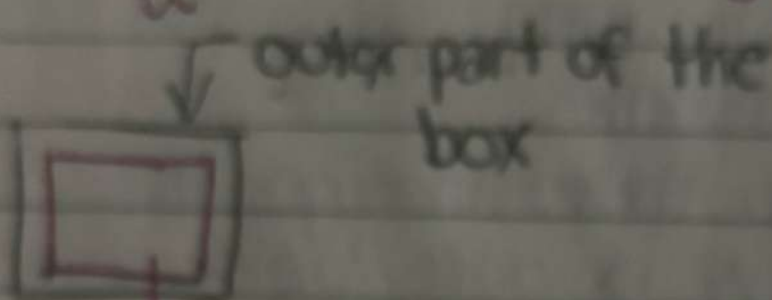
▬ = cardboard
▬▬ = wood



continue * ^{Date}



Our idea if we have enough time



↳ inner with all the mechanical items

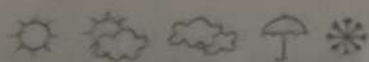
This will ensure the protection of our box; package patrol.

This would pass the kick test easily
↳ It will look like it's a basic box with cardboard but if you punch it or kick it will stay intact with maybe a dent but will have the package protected

• it will leave the thief in pain and regrets

This is still an idea and we will use this if we have time or

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Date / /

when we expand on package patrol
in the future.

14 days left
till Judging

13 days for
Setup ★

We also asked if we need any improvements in other areas and she said it was really good overall. She mentioned how she really loved the methods process, it explained the whole process really good. She mentioned to update the methods when completed and the conclusion (if necessary).

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Our plan

Date March / 29 / 2025

- Work on the app/update and take photos.
- Build the box and design it.
- Research on other companies and everything else (mentioned earlier).
- Take photos of the box and app during the process.

↳ Show the final code for the app and box during the end.

- Buy more cardboard (maybe wood * asking amal for her insight)
- Buy Brown paint
- Print our logo + banner for the trifold and logo for the box
- Buy brushes (may not since I have some already)
- Start adding stuff to google docs + planning what fonts are nice and easy to read
- Also ^{I forgot to} mention add every photo during methods (or others that are necessary)
- CITE all the sources



• / When using a different companies image for an example ~~two~~ show their companies name under and mention a brief example under + the price (and if its used or not)

ex: →



"Package Patrol"

Price: \$50
(canadian)

← image of the design

← Description

The format of each will be made on canva (shown above). The design will be by us and we plan to use colors like beige, brown, white, black, light yellow and brown for the background and font + border for the image (might add if it looks nice).

The reason for these specific colors is because our logo and banner include these colors. It will-
(next page)



fit the aesthetic and vibe of the trifold. Instead of having a complete different color like shy blue or pink which doesn't fit.

- Buy different types of paper for the background (looking for either brown or beige)

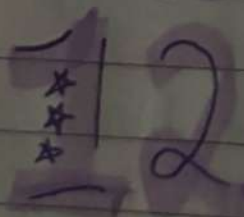
Current UPDATES FOR SF 2025♡



DAYS

left till

Judging
(awards)



DAYS LEFT

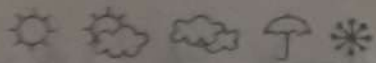
TILL

JUDGING



Basically 11 days to finish everything
(we can do this!)

- Trifold] main worries ✱
- Box]



Updates/designs ^{Date} march/ 31 / 2025

Prototype 3;

Trifold idea

- Adding current solutions
- Problem
- What
- Why
- How
- App
- Code
- Citations
- Acknowledgement
- Other ideas
- Our idea/What..
- Price
- Conclusion

11 DAYS left

till judging ★
awards

10 DAYS

left till

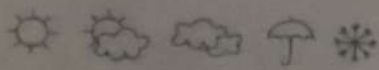
actual
judging

☀️ ☁️ ☂️ * Prototype 3 Date April 1 2025



introduction

- = Our idea/how
- ★ = Why
- ☺️ = What
- ☹️ = Problem
- ⋮ = App
- ⋮ = Code for the app
- ⋮ = Code for the package
- ♥️ = other ideas
- ♥️ = citations
- ★ = Acknowledgement
- ☑️ = Conclusion
- ⊕ = Future plans



Updates

Date

/ /

Amal finished the box (not final ~~design~~ design) issues

↳ will work on it!!

- Box is too small

- she was unable to get more material

- Luckily I had a lot of ~~card~~ cardboard which can be used the box is standard size

↳ Due to this we weren't able to paint it brown or put the logo

- we want our final design to be the best that it can

- Adding the logo / painting brown

- I will code the box tomorrow on android studio

Trifold updates

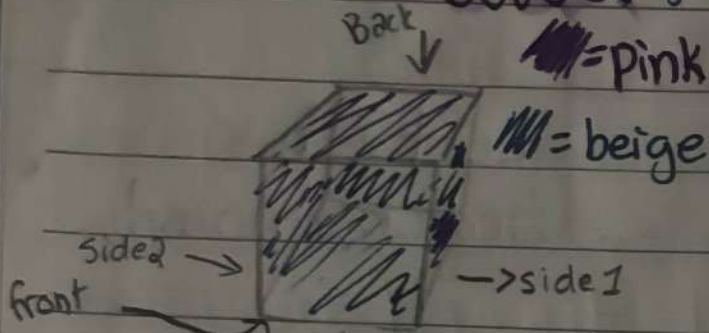
↳ adding all things on the docs

- Still researching other peoples ideas and what currently exists.



Box!

Date / /



Outside ⊕

The Top is pink

Back is Beige

Side 1 and 2 are both pink

Front is Beige

Bottom is pink

Inside ⊕

Bottom is pink

Top is pink

Front is beige

Back is beige

Side 1 and 2 are both pink

The logo will be placed on the top.

↳ Idea for the banner/sides

- each side will have a banner @ the top or lacing.

- Lacing will be white

- The banner is brown/beige and is on CYSF portal/platform.

Deadlines

Trifold will be completed by Tuesday or Wednesday

↳ April 7th, 8th!

The box will be finished hopefully by Friday or Monday

↳ April 4th, 6th

CYS P 2025 - Package Patrol & Logbook! Fully finished when we are

~~putting~~ putting the trifold up (includes checklist and our experience) ↳ April 10th

Leaving the logbook once I finish writing the checklist, experience/writing time stamps and to make sure nothing is missing.

• Talk about inspection!

Science Fair on the 11th, 12th.

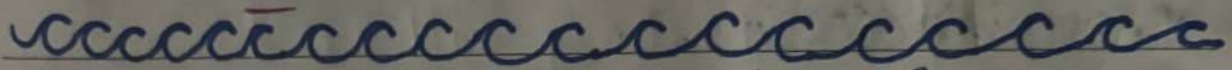
11 = Judging } Have a countdown
12 = Awards }

* Things / colored images will be printed @ school on Tuesday (prob)



must do Date April / 4th / 2025

monday bring the **TRIFOLD**
+ @ school



- Finish most printouts by Sunday
- Box ~~is~~ is complete

L > Code needs to be worked on *
 Our plan is to finish the code by
 Monday * Tuesday latest

- Buy paint, poster paper, number/letter stickers!
- Buy glue
- Sharpie thin + thick in black
- Stickers like lock or house (anything that can represent a security, home theme) ♥

7 Days left till Judging!
 8 Days left till *Awards*

Almost done
 Logbook!!
 + more than half

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☀ ☁ ☂ ☔ * Pricing *

Date / /

Prices (again)

White paint: \$1.50 *

Pink paint: \$1.50 *

Beige paint: \$1.50 *

Glue gun: \$4.00 *

Glue: \$2.00 *

Cardboard: \$14.98 ☺ ~~XXXXXXXXXX~~

Nyloc nuts: \$10.80 (used 10 so = \$1) *

Hex cap screws: \$12.83 (used 11, so = \$1.41) *

3D printer: \$359.99 *

Battery: \$55.00 *

Aluminum servo horn v2: \$7.00 *

Servo: ~~\$48.5~~ * 30.5

Control hub: \$350 *

Total: \$840.38

Total (without paint): \$835.88

Total (without 3D printer): \$480.39

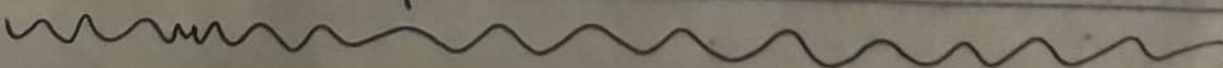
Total (without paint + 3D printer): \$475.89

* = rev

* = school

* = Dollar store

☺ = Home depot



☀️ ☁️ ☂️ * Why REV? Date / /

Thanks to our Science teacher and Robotics coach for team #27931 ALCA robotics, lend the parts from REV; since we weren't in robotics season anymore!!.

If we didn't have this great chance we would've used cheaper options rather than REV.

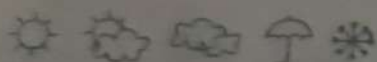
REV \$ (expensive compared to others).

All parts from REV + 3D printer is provided by our school.

• We were told the price of the 3D printer but not where they bought it so we put school
↳ we assume they bought it from amazon.

Dollarstore products are bought from amal and I. This includes the

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Date / /

home depot item

REV parts prices (by themselves)

Battery: \$55

Servo: \$40.5

Aluminum servo horn v2: \$7.00

Nyloc nuts: 100 pack (10.80) used 10 = \$1

Hex cap screws: 100 pack (12.83) used 19 = \$1.43

Control hub: \$350

Total: 454.93(\$)

Dollar store items + home depot

Paint pink: \$1.50

Paint beige: \$1.50

Paint white: \$1.50

Glue: \$2.00

Glue gun: \$4.00

Cardboard: \$14.98

Total: 25.48(\$)

School bought

3D printer: \$359.99

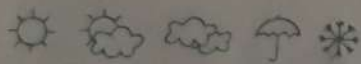
(don't know where they buy.)

☀ ☁ ☂ * Progress! * Date April 15th 2025

- Completed box
 - ↳ doing the code currently *
- Printout cutouts by Monday (code + final box image on Tuesday or Wednesday)
 - ↳ Almost done!
- Finish code by Tuesday or Wednesday before printing out
 - ↳ for trifold *

Unfortunately no updates on the DOC due to plans for both of us and got tired when finished/free.

- First day off of the month.
 - ↳ tomorrow we will work no matter what *
 - ↳ goal is to finish!



Trifold*

Date April / 6th / 2025

Finished finances price was \$427.
(around that price)*

- Almost done Acknowledgement!
- Code!
- Citations!

Finance includes

- Rev products
- Home depot products

Conclusion;

Items consisted in the box like servos, cardboard, nyloc nuts, screws etc

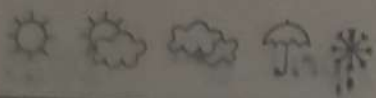
Have some left but plan to work at school for 4:40 hours and minutes!

All work is done on canva instead of docs

Reason:

Canva is easier to use and we can place images in specific ways. Aswell change the background, we don't have to remove

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Date / /

Bg for the backgrounds because we have premium.

Everything is done but we need to fully add + make changes depending on what has been added includes:

↳ images

information

updates

more paragraphs

png's to make it look visually appealing + aesthetic!

Bg = background in abbreviation ✖

Days left ✖

5 days till Judging!

6 days till Awards!

✖ ✖ ✖

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Date / /

Bringing trifold ~~to~~ on Tuesday,
printing everything on Monday and
adding it on before school.

- Code images
- Box
- QR code for the website

All printed on Tuesday or Monday
depending on when we finish.
Aiming for ~~to~~ Monday but Tuesday
is okay!

Goal (for fun):

Finish the logbook or have 2-3
pages left!

(Hopefully impressive?)

85 pages total

57 done out of 85

28 pages left to do

(so close to being finished)

used from Feb to April
and a bit (barely)

$$\begin{array}{r} 715 \\ 88 \\ -57 \\ \hline 28 \end{array}$$



Updates/Checklist ^{Date} April 7 / 2025

How

What

Methods

Apps

Problem

Finances

Description of the project

Acknowledgement

Citations

Logo

Conclusion

Other companies (one left!)

Other ~~ideas~~ ideas / future plans

Code (for the current app)

Research

~~Print~~ Printing everything tomorrow +
working on research *

- print by tomorrow

- Finish code (final) *

- Add QR codes for app

and potentially Logbook? *



Finished everything on the checklist but research, may add new citations (reason as to why I'm not done citations) & just incase!!

Android studio code

↳ working on at home and school!

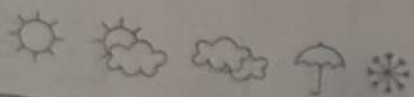
Finally almost done

(box is done just needs to be painted*)!!

4 days till Judging*

5 days till awards

Don't forget your logbook*



Date Jan / 1 / 2026

Successfully signed me and manveer
up for CYSF

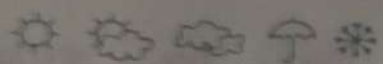
Thoughts for box

- pincode
- final app
- better 3D print designs
- Cheaper costs
- ~~•~~ • Better material

~~•~~ Use an arduino kit for servo?
(potential)



Use FTC servo and maybe control
hub if needed!



Date Jan / 9 / 2026

New idea

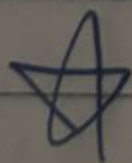
(not for sure!)

Instead of a pincode should we use a camera to detect people?

- > camera will send alerts
- > box can be open or closed with any app (connected to the box)
- > box shuts when user presses or/when it feels weight?
(maybe)

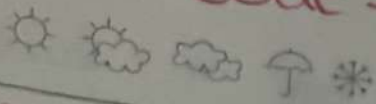
Research:

- more charts, more visuals, add new reports as well.
- use last years research and advance it
- keep last years citations (research used)



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Code = QR code



Date Jan / 29 / 2026

Completely new idea (maybe)

Have the app generate a QR code

→ code will be able to open the box!

→ new code will generate EVERY time

→ box will stay open ~~the~~ before delivery

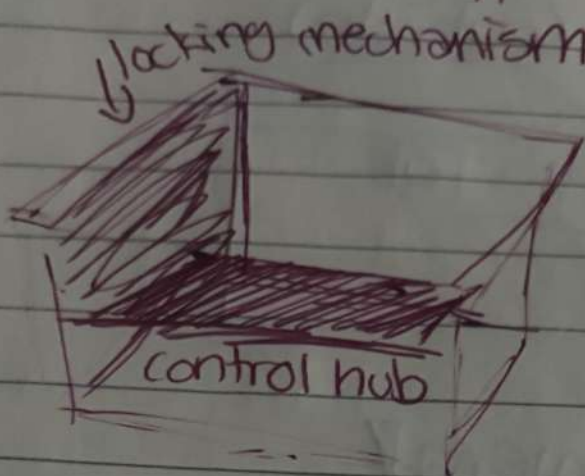
→ after something is put inside or the owner sees it can close

Idea is from the **FTC decode game** (not sure)

Finish Acknowledgements (so far)
Focus on the project.

Date Feb / 1 / 2026

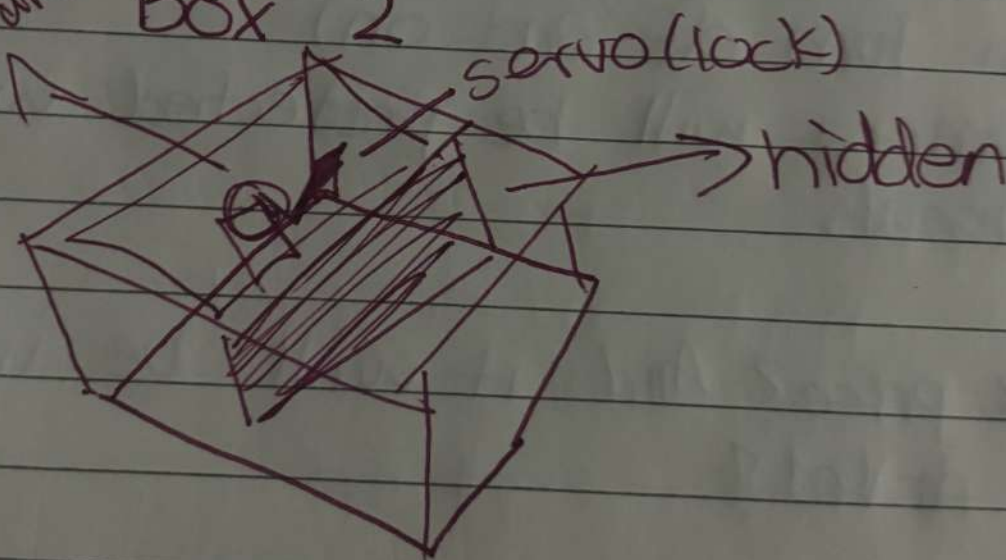
Box prototype 1



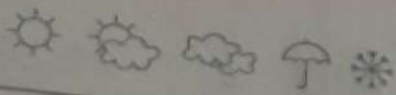
NOT a final design

wall 2 (opens and closes)

Box 2

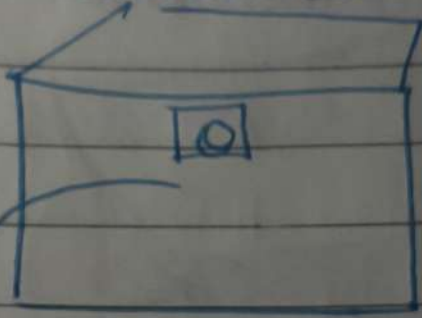


Wall 2 only since its our design and isnt officially selling will have an opening and closing!



Date Feb / 2 / 2026

Box idea
(outside)



Hidden camera

- senses motion

→ sends notifications if movement
(can turn off and on)

- camera will be protected with materials

Box price? And it will be installed or drilled?

Date Feb / 20 / 2026

Update! ▽

Currently research on separate google doc has been completed.

- Acknowledgement ✓
- Analysis ✓/x (still adding)
- Method writing for ideas
- Current citations ✓/x HAVE been formatted
- Upload logbook x (not done)
- Problem ✓ (if want to add more/expand)

To do : Box and Method

- Finish research and upload! ▽
- Make charts and diagrams
- Add more visuals
- Proof read everything! ▽