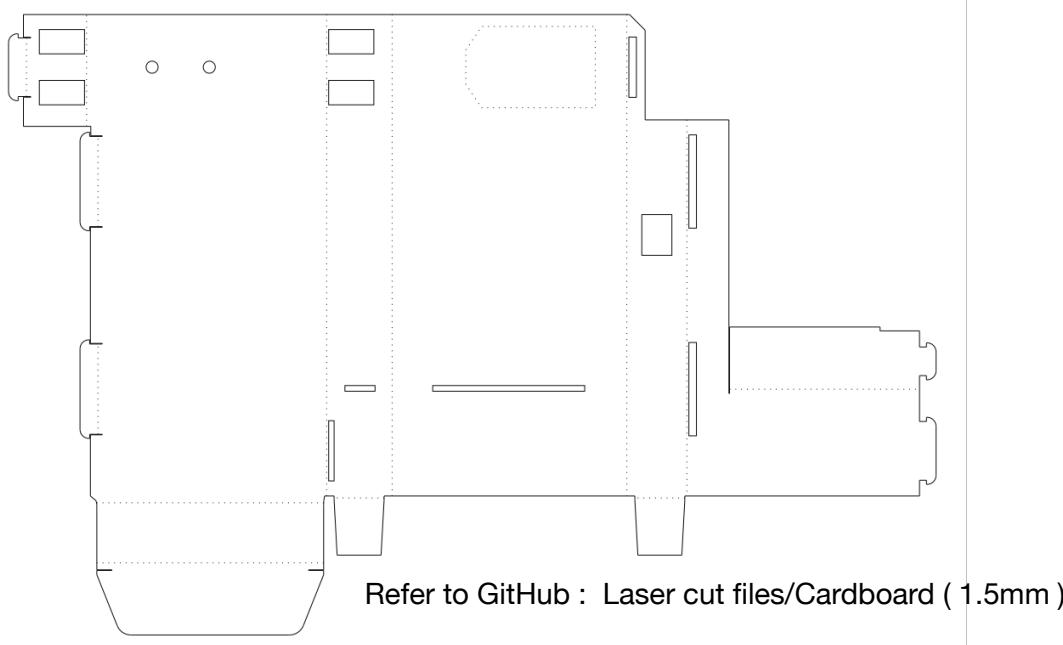


Mykroscope
LEARNING TOGETHER

Mykroscope Build Component

1 Laser-cut cardboard (1.5mm)



2 Laser-cut transparent acrylic (2mm)



Refer to Github : Laser cut files/SlideHolder (2mm)

3 Rocker switch (15 * 10 mm)

4 AA battery holder

5 LED light panel (37 * 26 * 2.3 mm)

6 Magnifying lens

7 AA batteries x 2

8 Cable Tie x 2



Mykroscope

Emerging as champion of the Young Innovators Challenge 2017 (YIC) has enabled Sekolah Agama Menengah Jeram to turn their idea into reality. Their idea, the Mykroscope, is the pairing of a portable microscope with a smartphone. Mykroscope allows students to capture their discoveries on their mobile phones and share them with others around the world. With Mykroscope, students are no longer bound by the confines of their classrooms; the world is now their classroom.

www.mykroscope.com

Inventors

- Nor Asikin binti Zulkifli
- Ainurania Azzahra binti Zulkifli
- Nur Anis binti Suratiman

Teacher Advisor

- Pn. Sabariah binti Hussein

Mentor

- Muhammad Amir Zahidin bin Zainal Abidin

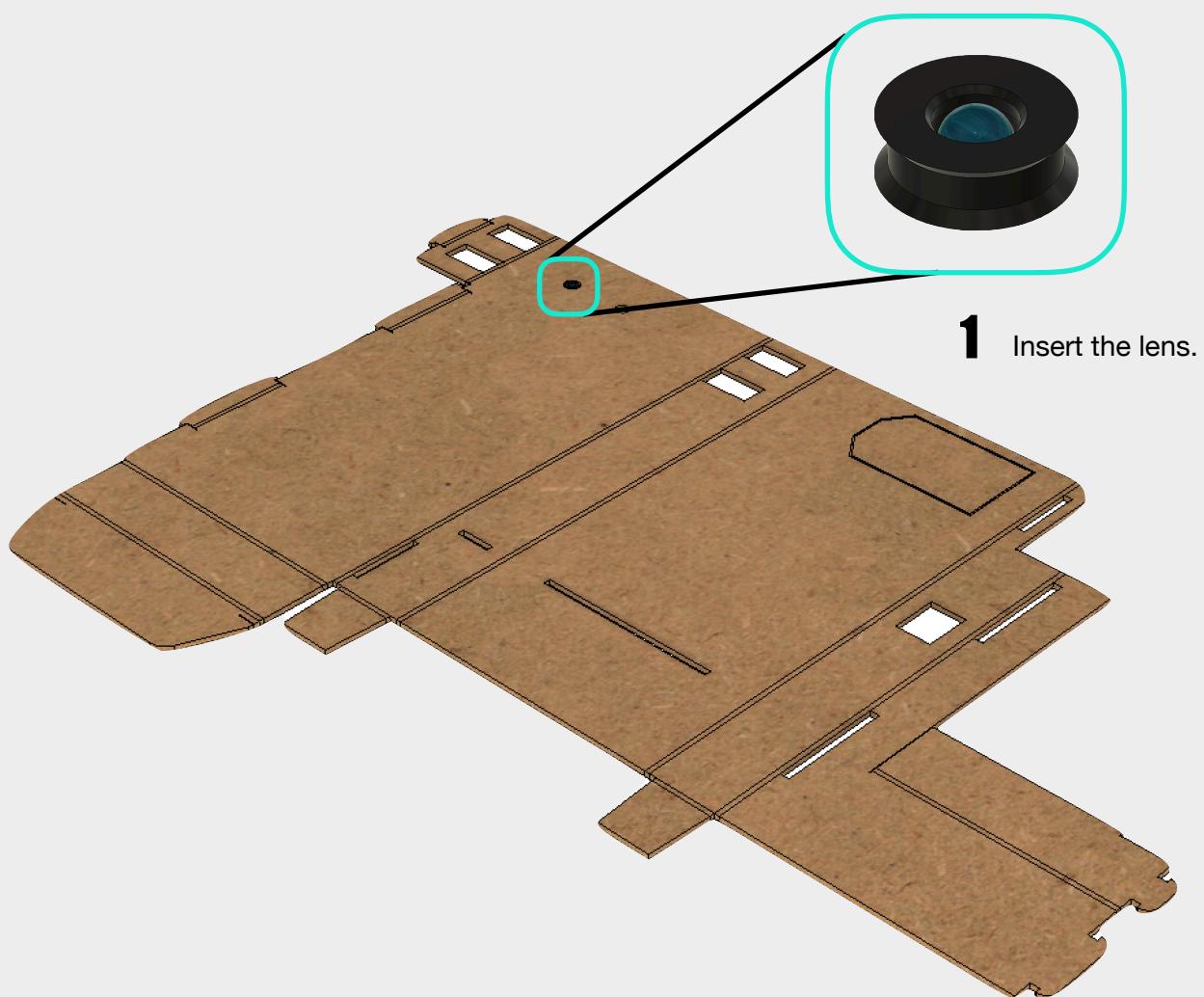
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Mykroscope Manual



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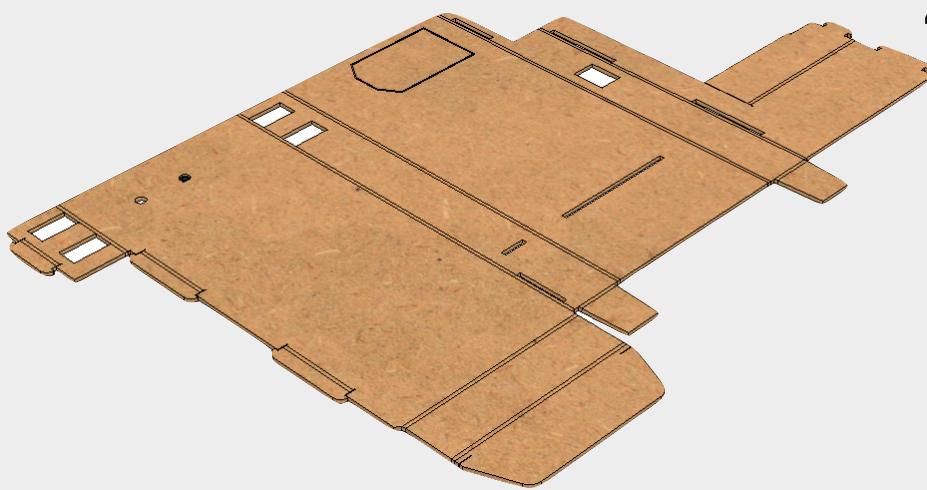
Teacher Advisor

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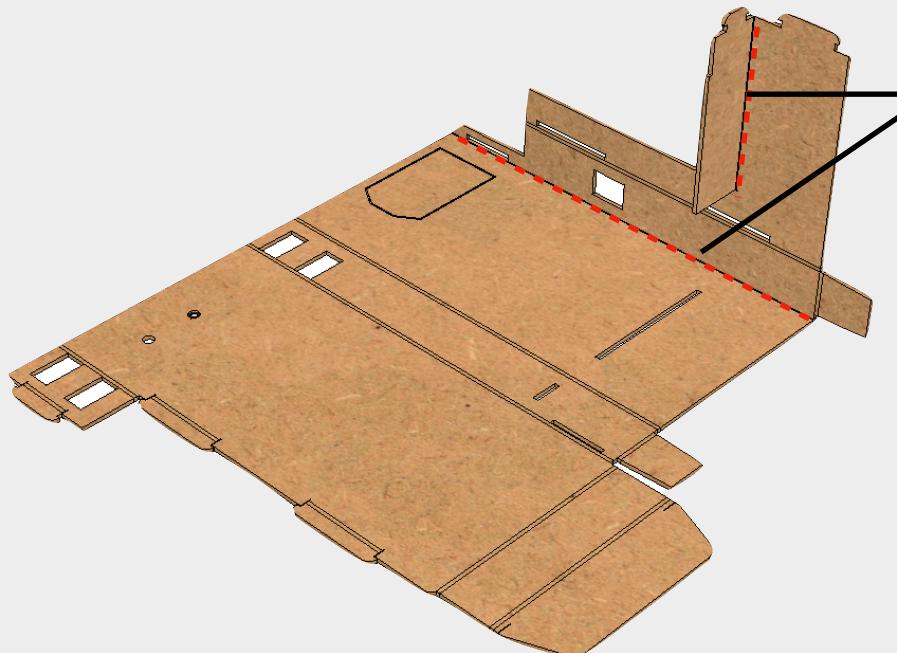
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- 2** Orientate and place the Cardboard as shown on a flat table.



- 3** Fold the Cardboard.

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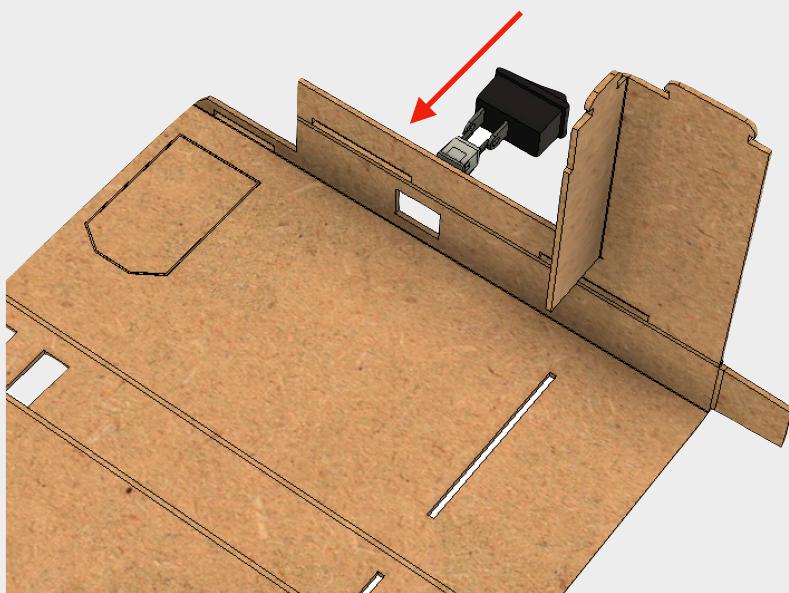
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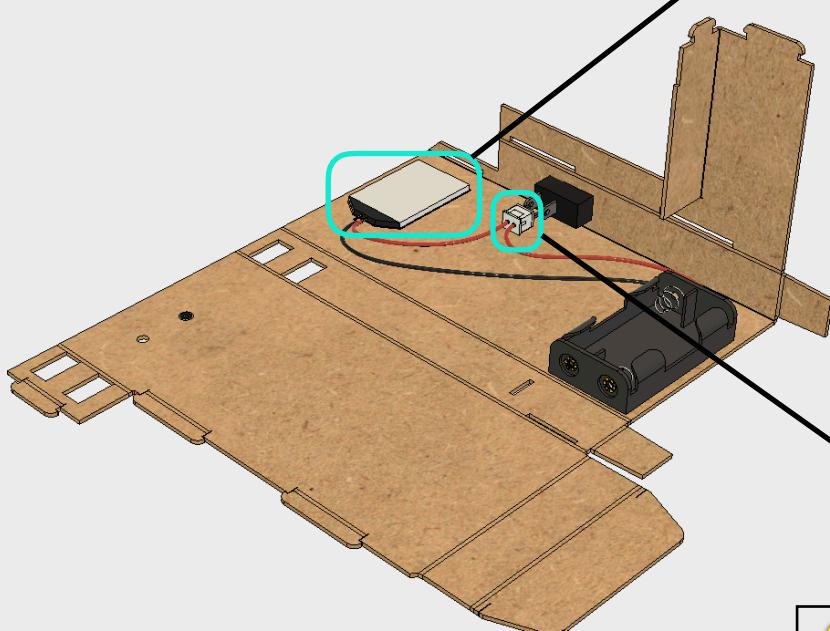
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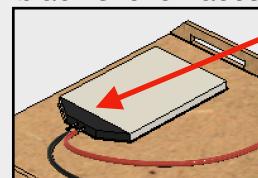
4

Slot in the Switch.
Use this switch to turn on and off the LED panel on the Mykroscope



5

Stick the LED panel onto the cardboard. Make sure the black sticker faces up



The LED panel provides the backlight for the glass slide.

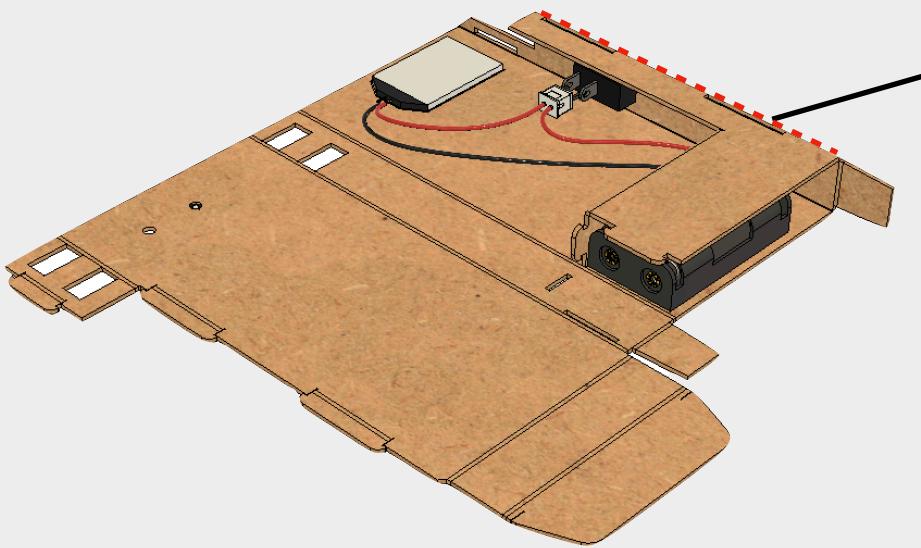
6

Connect the LED panel and the Battery Holder to the Switch.

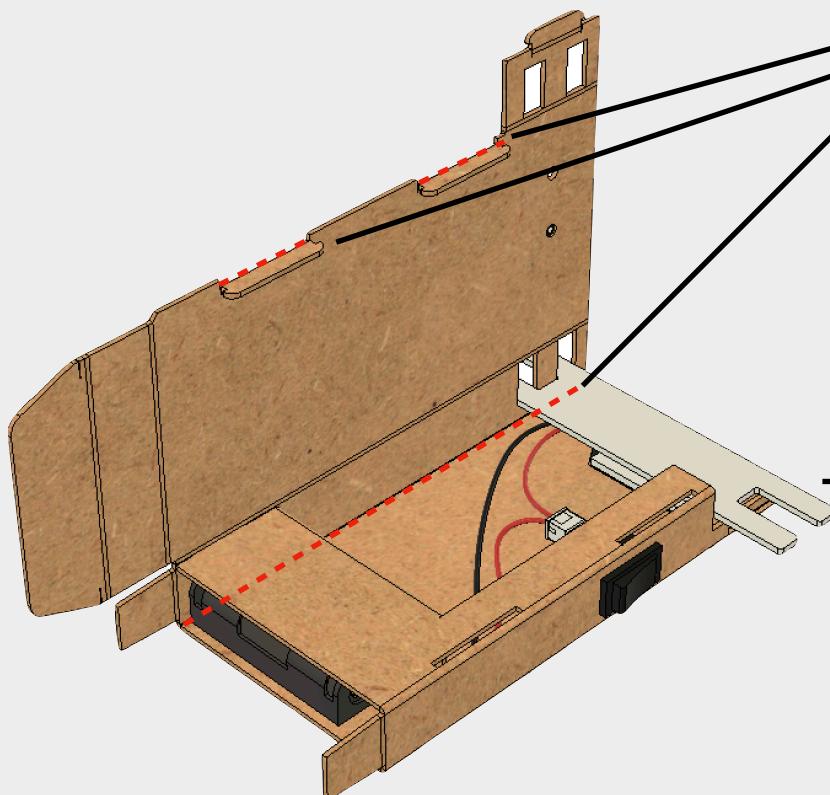


Reminder

Insert two AA batteries into the Battery Holder, and then turn on the LED panel to make sure it's working.



7 Fold the Cardboard.



8 Fold the Cardboard.

9 Insert the Acrylic.

The acrylic is a levelling platform for the glass slide.

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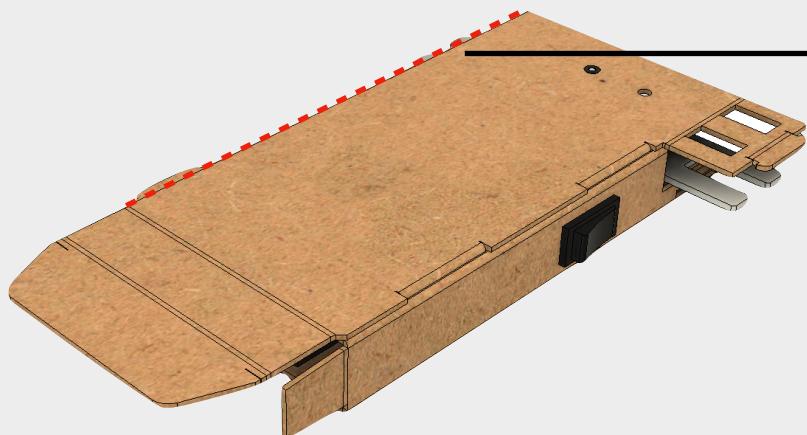
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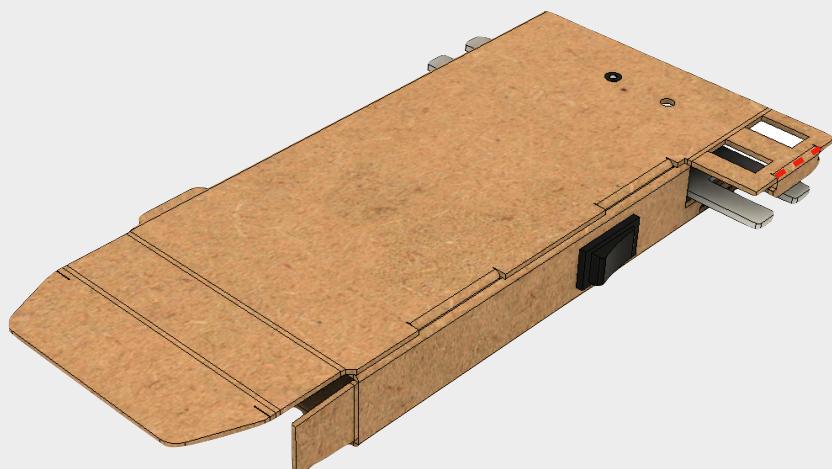
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10 Fold the Cardboard.



11 Fold the Cardboard.

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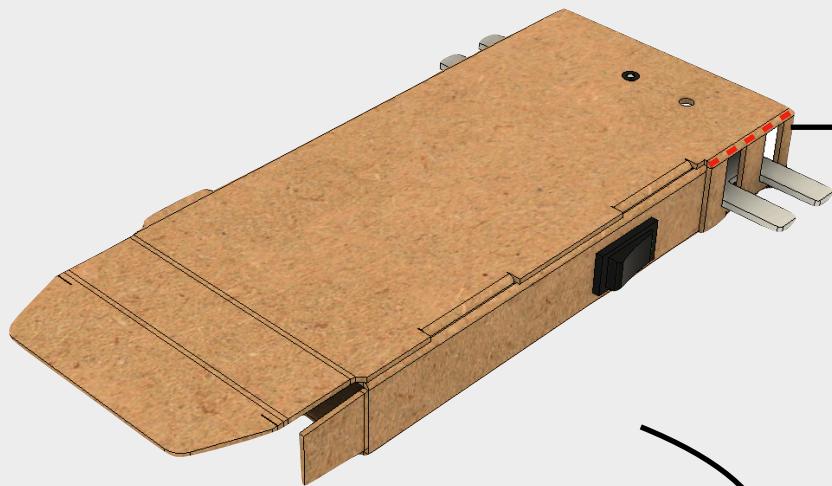
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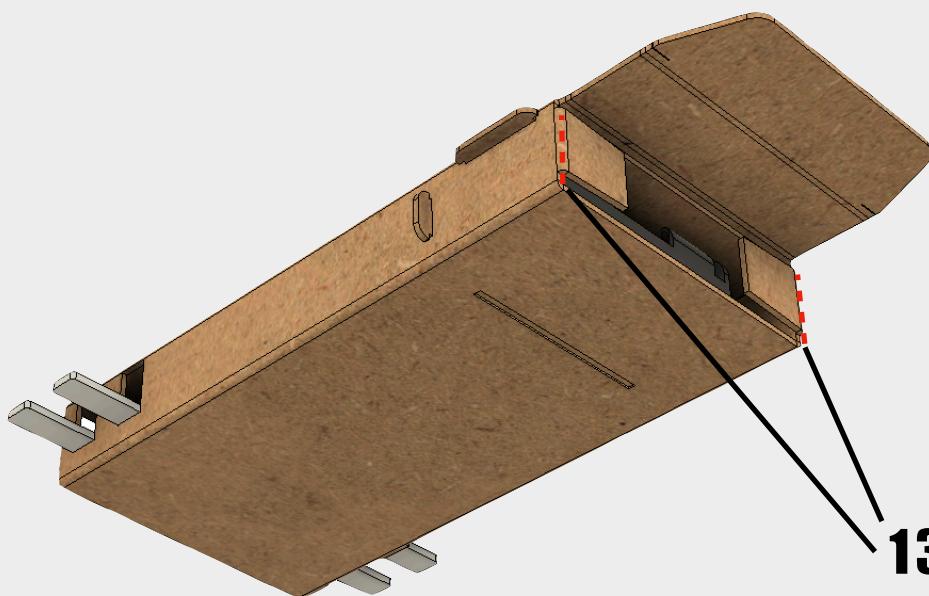
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12 Fold the Cardboard.



13 Fold the Cardboard.

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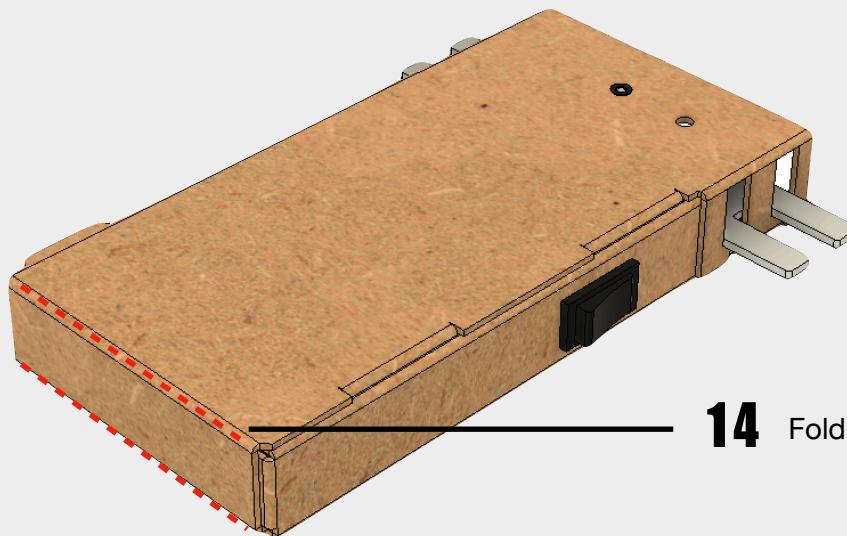
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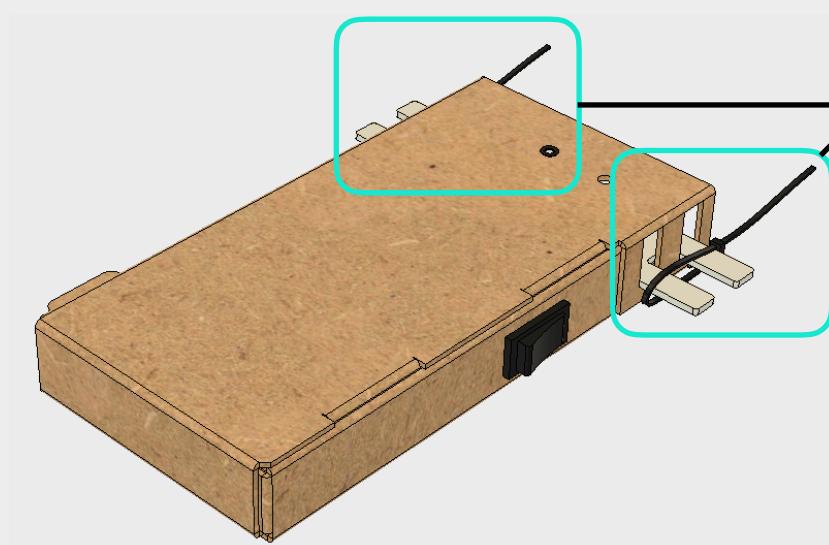
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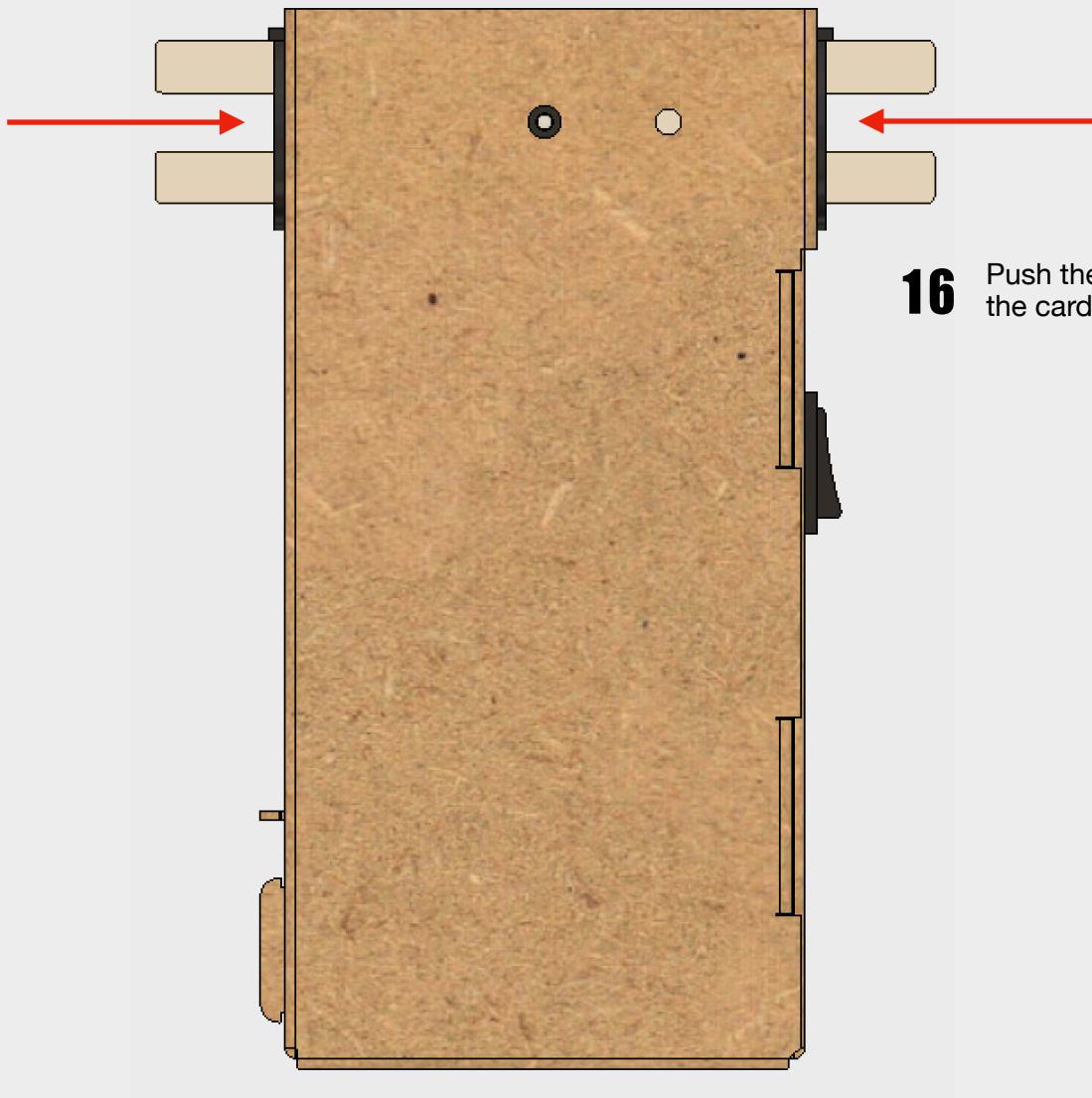
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14 Fold the Cardboard.



15 Tighten cable ties on both ends of the Acrylic. Cut away any excess.



16 Push the cable ties close to the cardboard.

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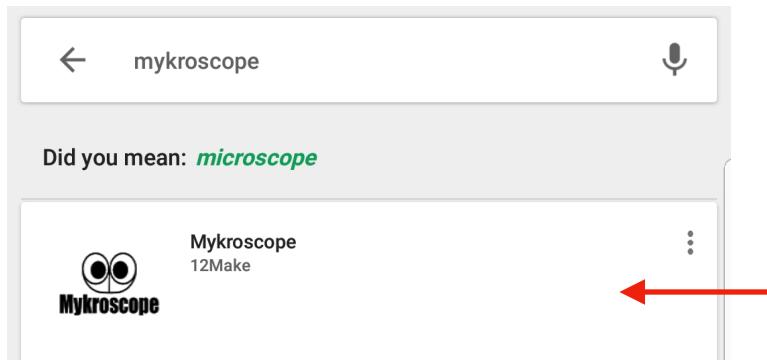


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Mykroscope App



Google Play



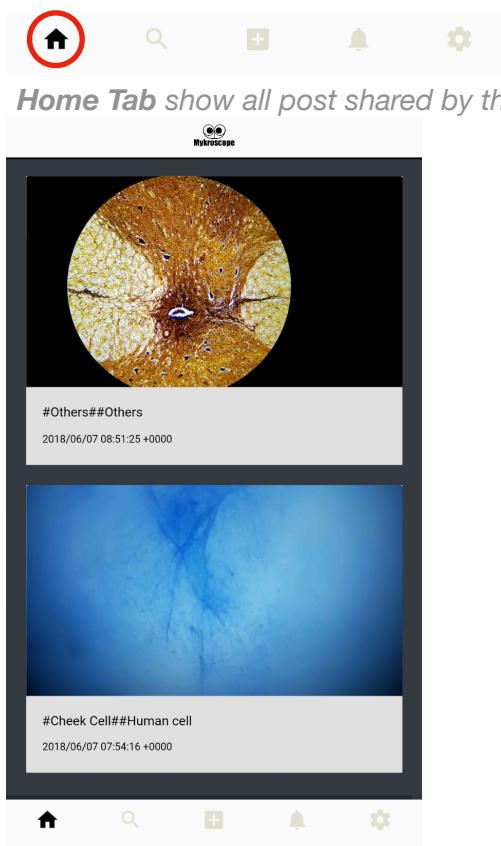
- 1 Download the Mykroscope app from the Google Play store.



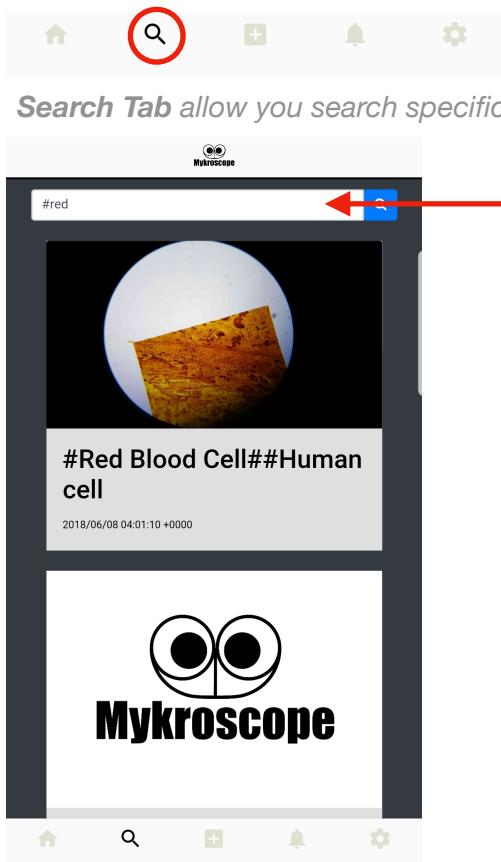
- 2 Log in with your Facebook account.

3 Familiarise with the interface.

Home Tab

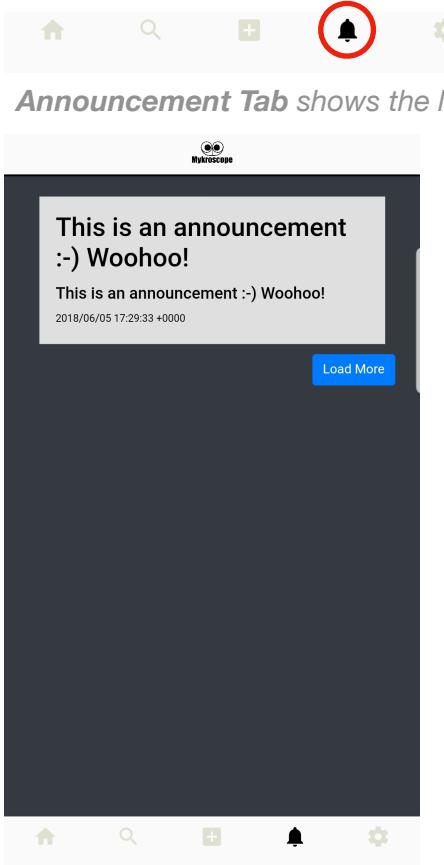


Search Tab

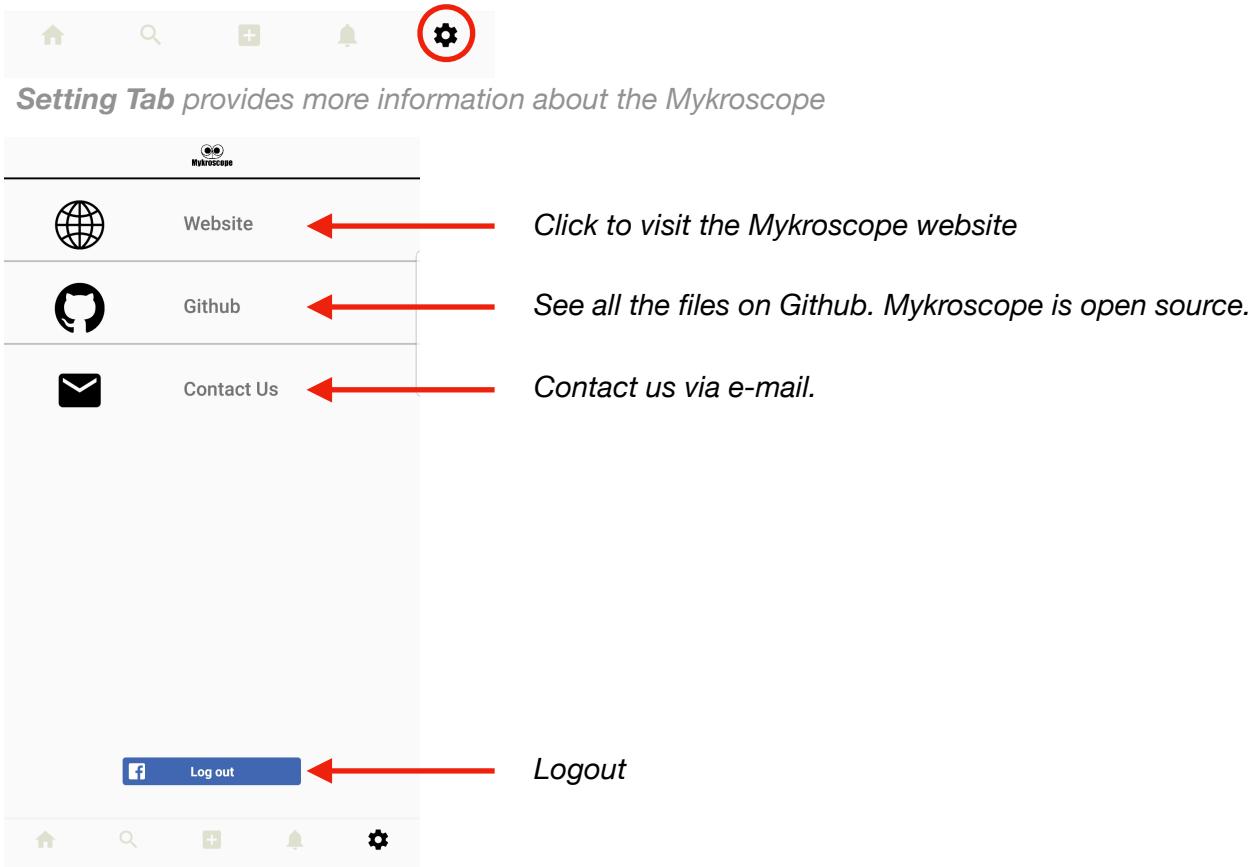


Search for a hashtag, for example, key in #red to show all posts with that hashtag

Announcement Tab



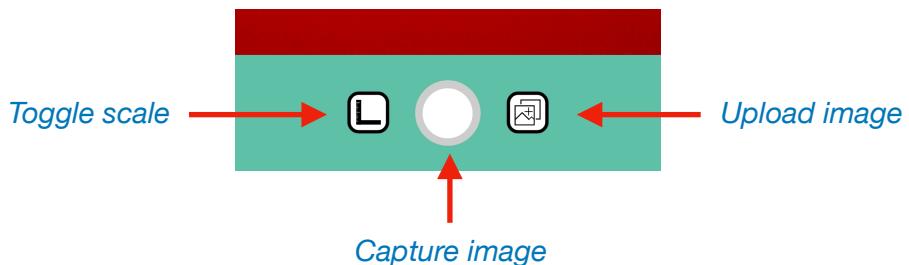
Setting Tab



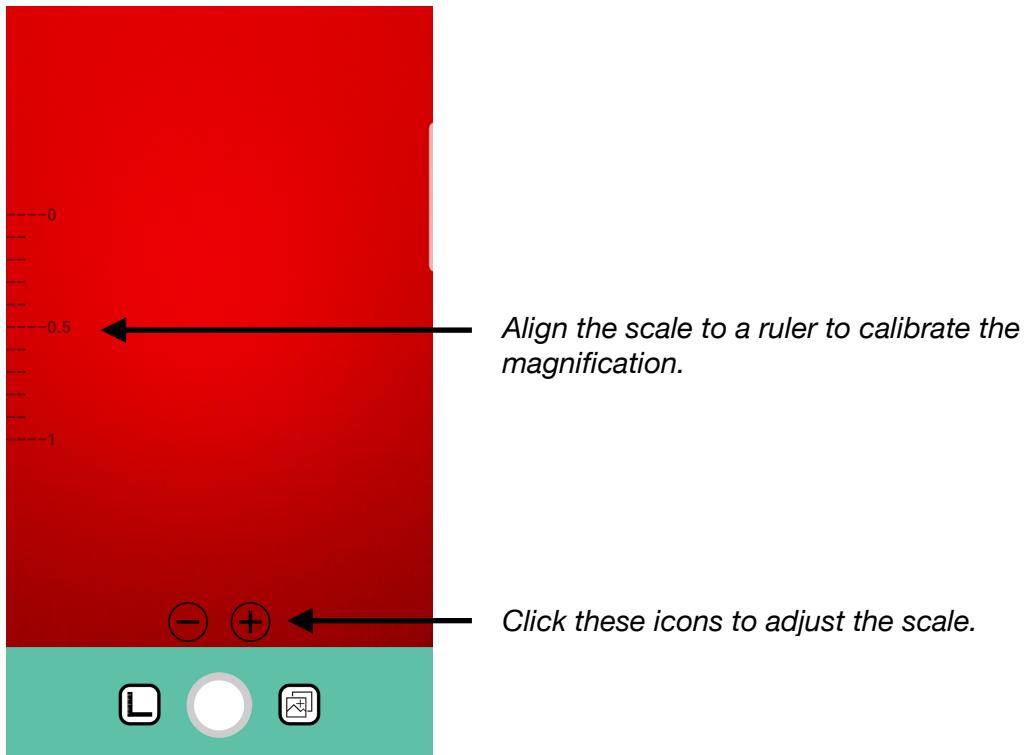
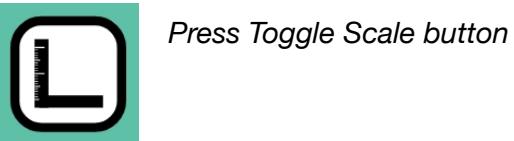
Camera Tab



Camera Tab opens your camera, prepare to capture amazing micro-scale images !!!

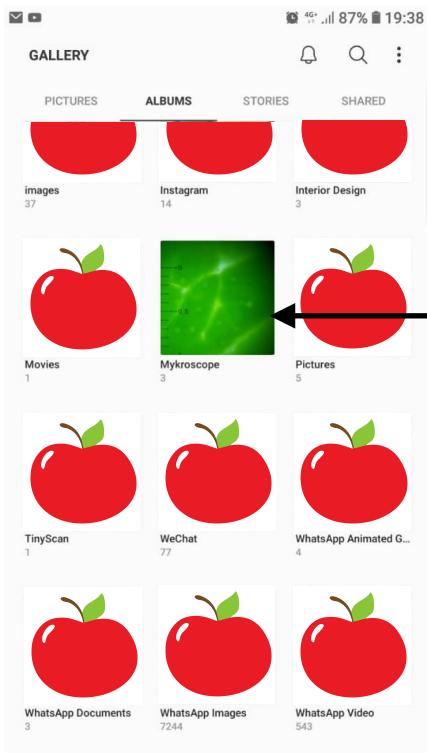


4 Capturing and sharing an image.

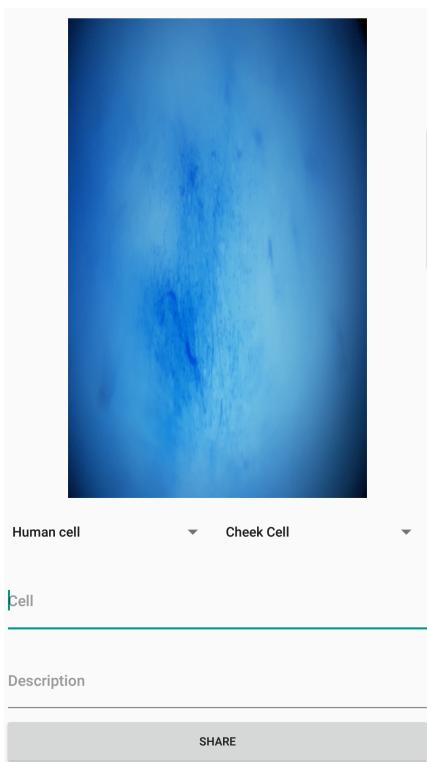




Press *Upload Image* button



Open the *Mykroscope* folder in the Photo Gallery, and choose the image you captured.



Choose a cell category and cell type

Key in here for other cell type

Describe more on the cell

Share