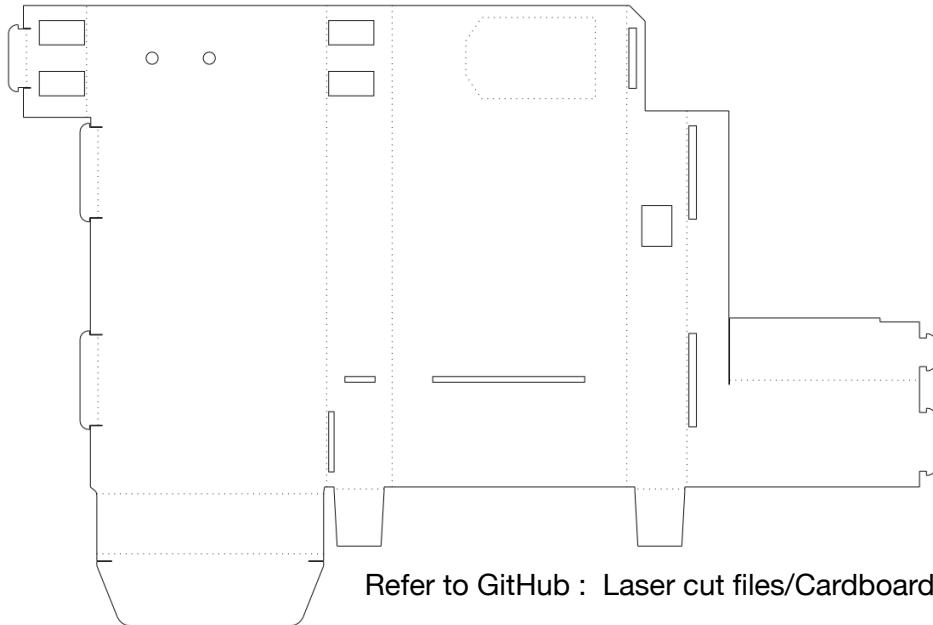


**Mykroscope**  
LEARNING TOGETHER

# Mykroscope Build Component

## 1 Laser-cut cardboard ( 1.5mm )



Refer to GitHub : Laser cut files/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

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](http://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

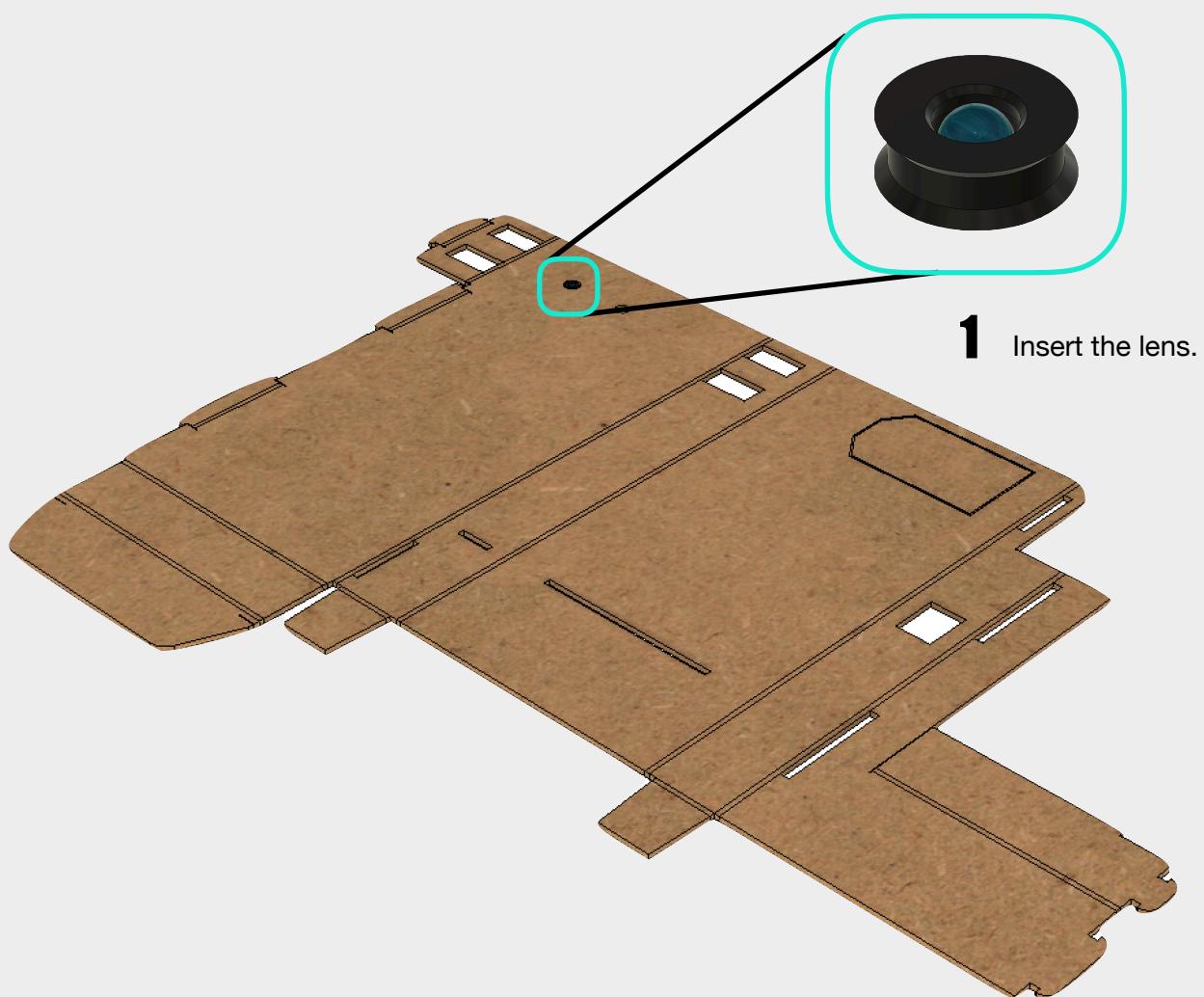
### Students of



SAM Jeram

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**chmbaka**

# Mykroscope Manual



#### Inventors

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- Ainurania Azzahra binti Zulkifli
- Nur Anis binti Suratiman

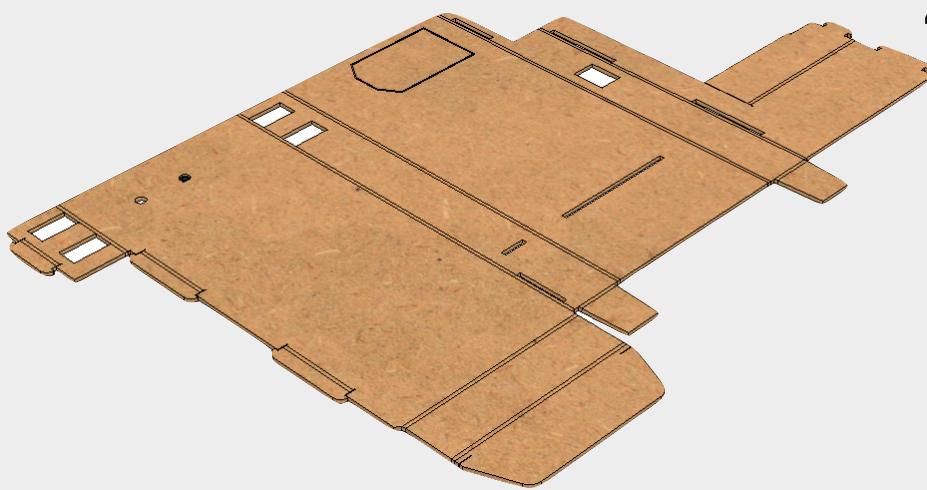
#### Teacher Advisor

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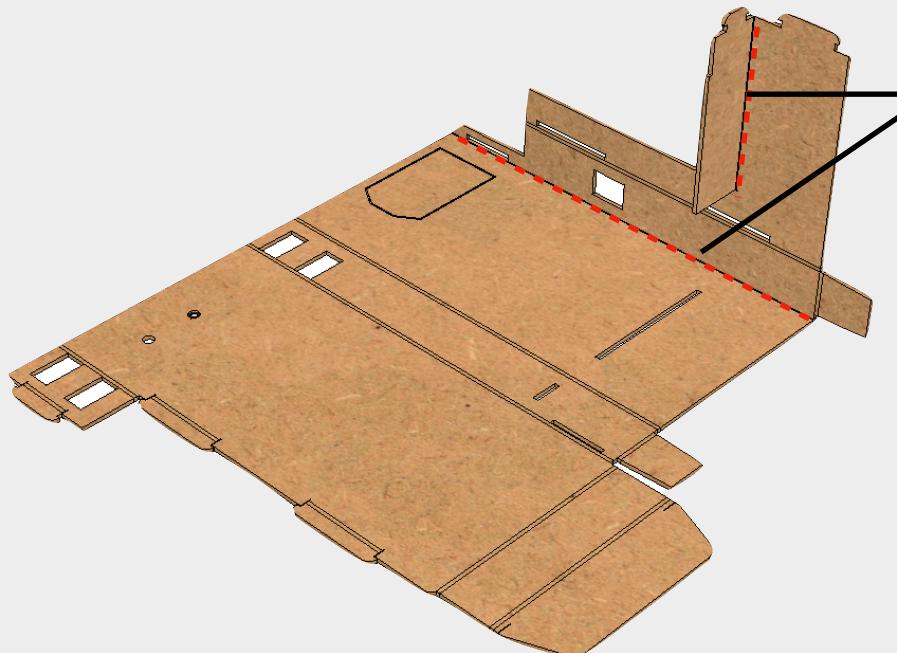
#### Mentor

- Muhammad Amir Zahidin bin Zainal Abidin





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



- 3** Fold the Cardboard.

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**Mentor**

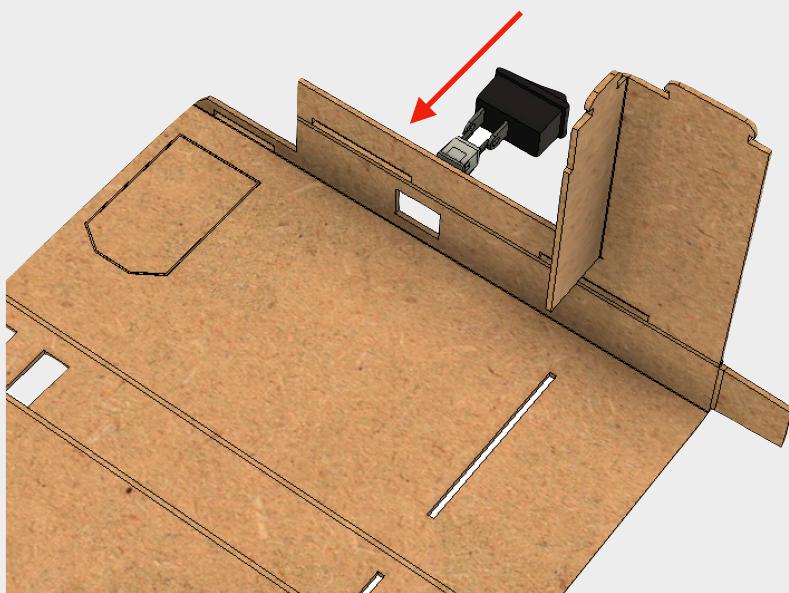
- Muhammad Amir Zahidin bin Zainal Abidin

**Students of**



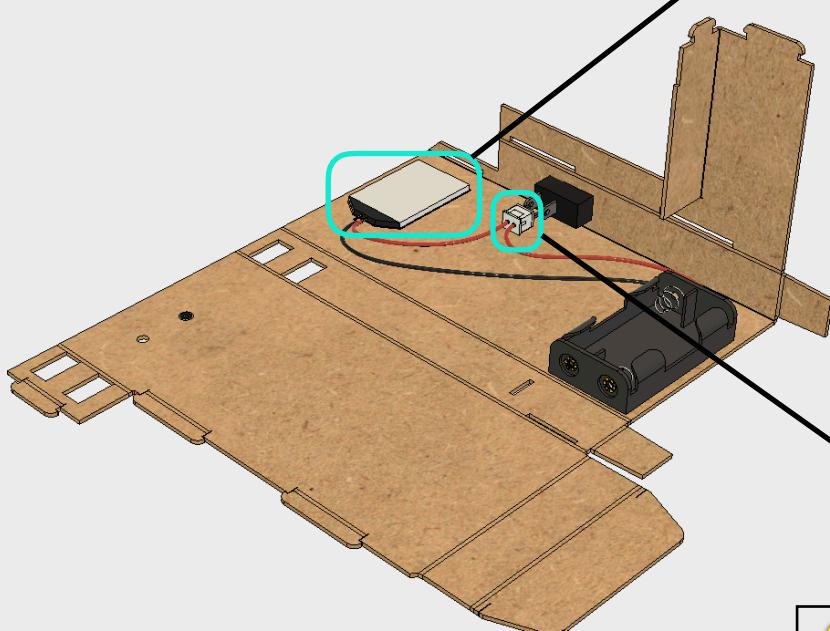
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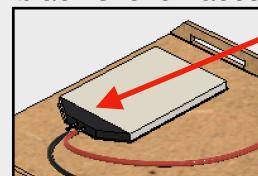
**4**

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.

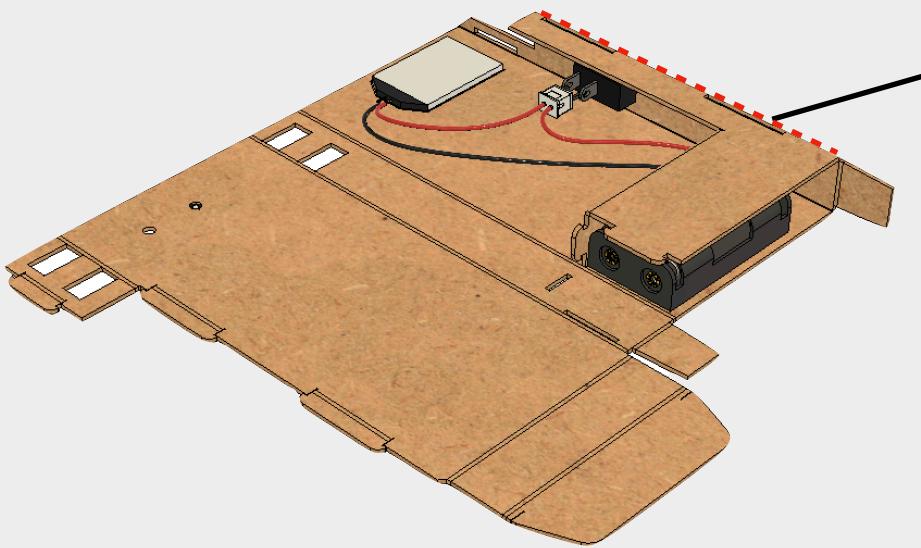
**6**

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

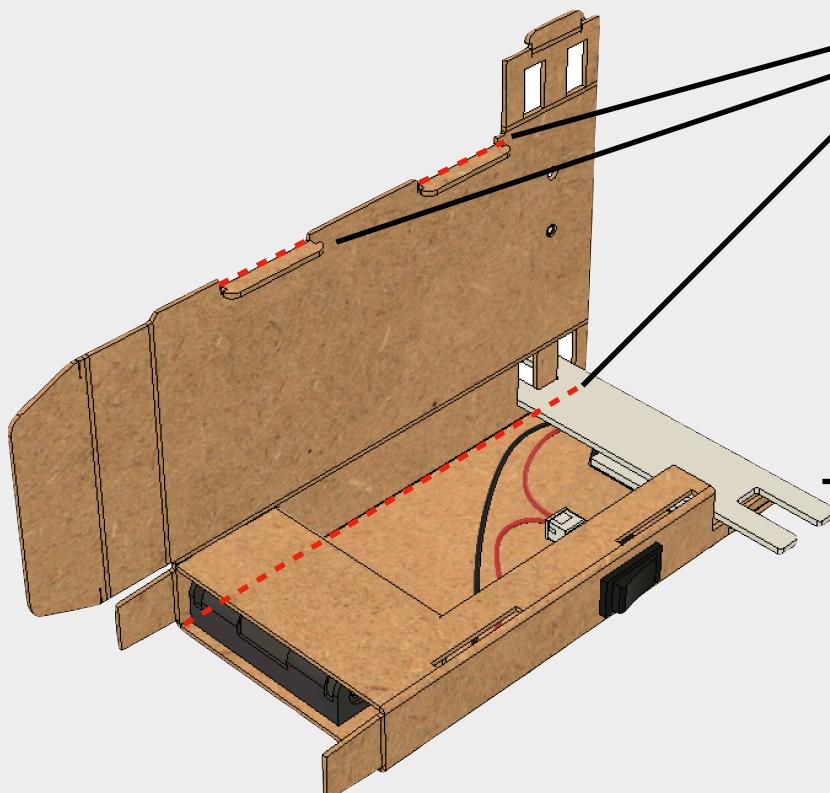


### Reminder

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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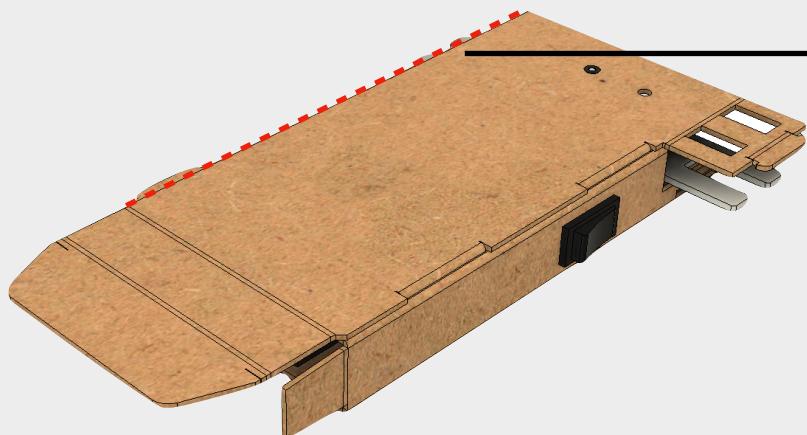
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**10** Fold the Cardboard.



**11** Fold the Cardboard.

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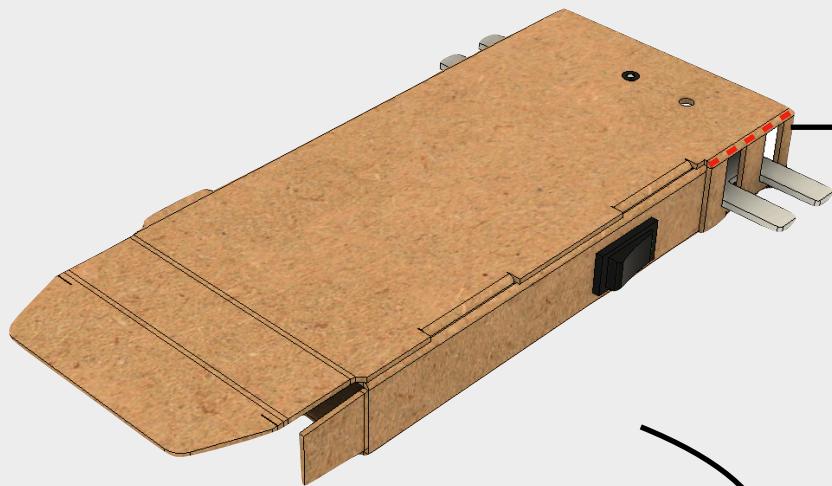
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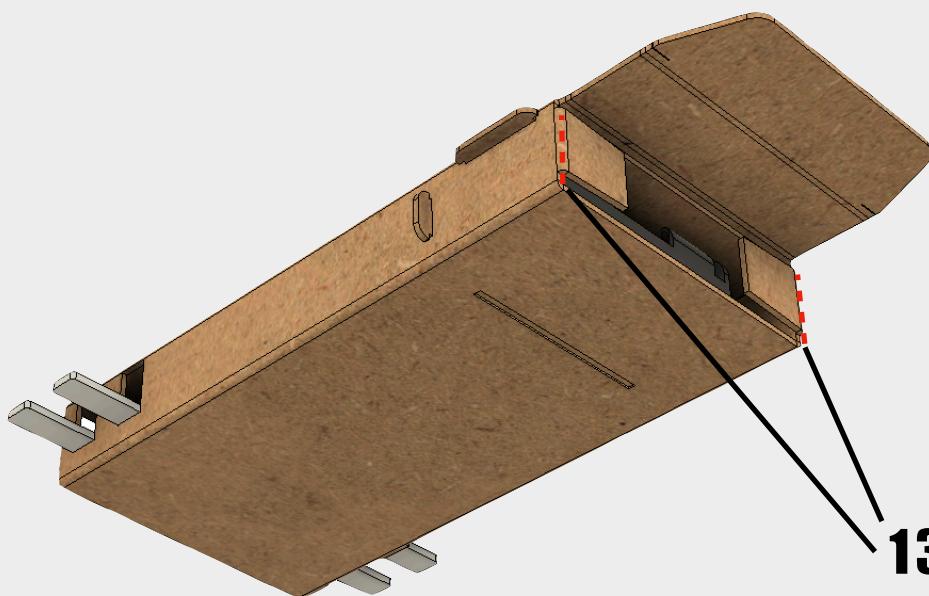
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**12** Fold the Cardboard.



**13** Fold the Cardboard.

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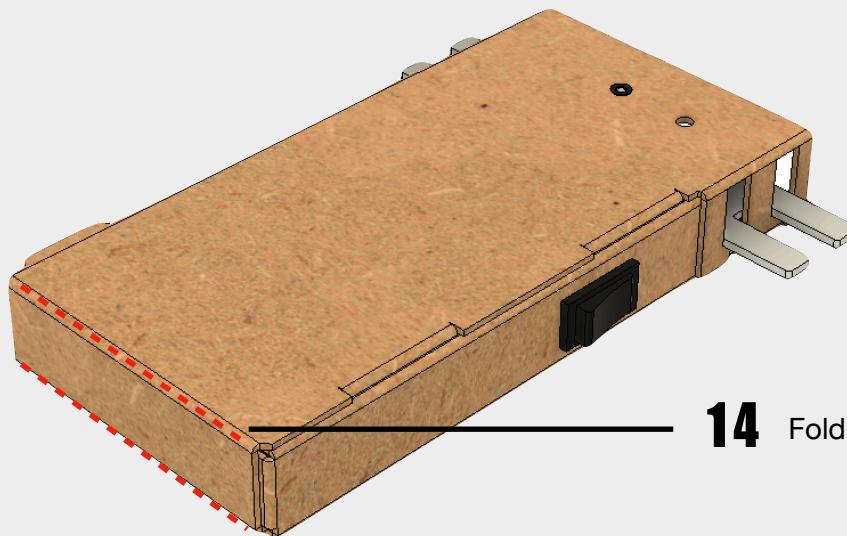
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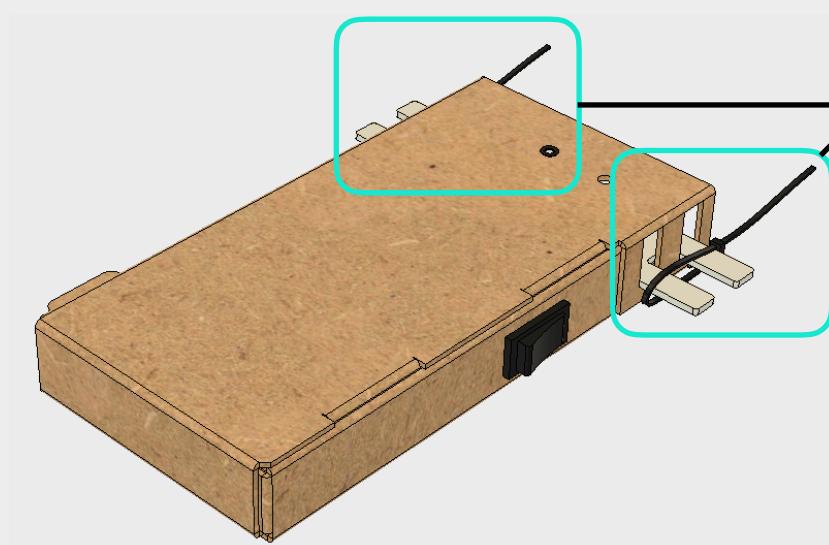
**Students of**



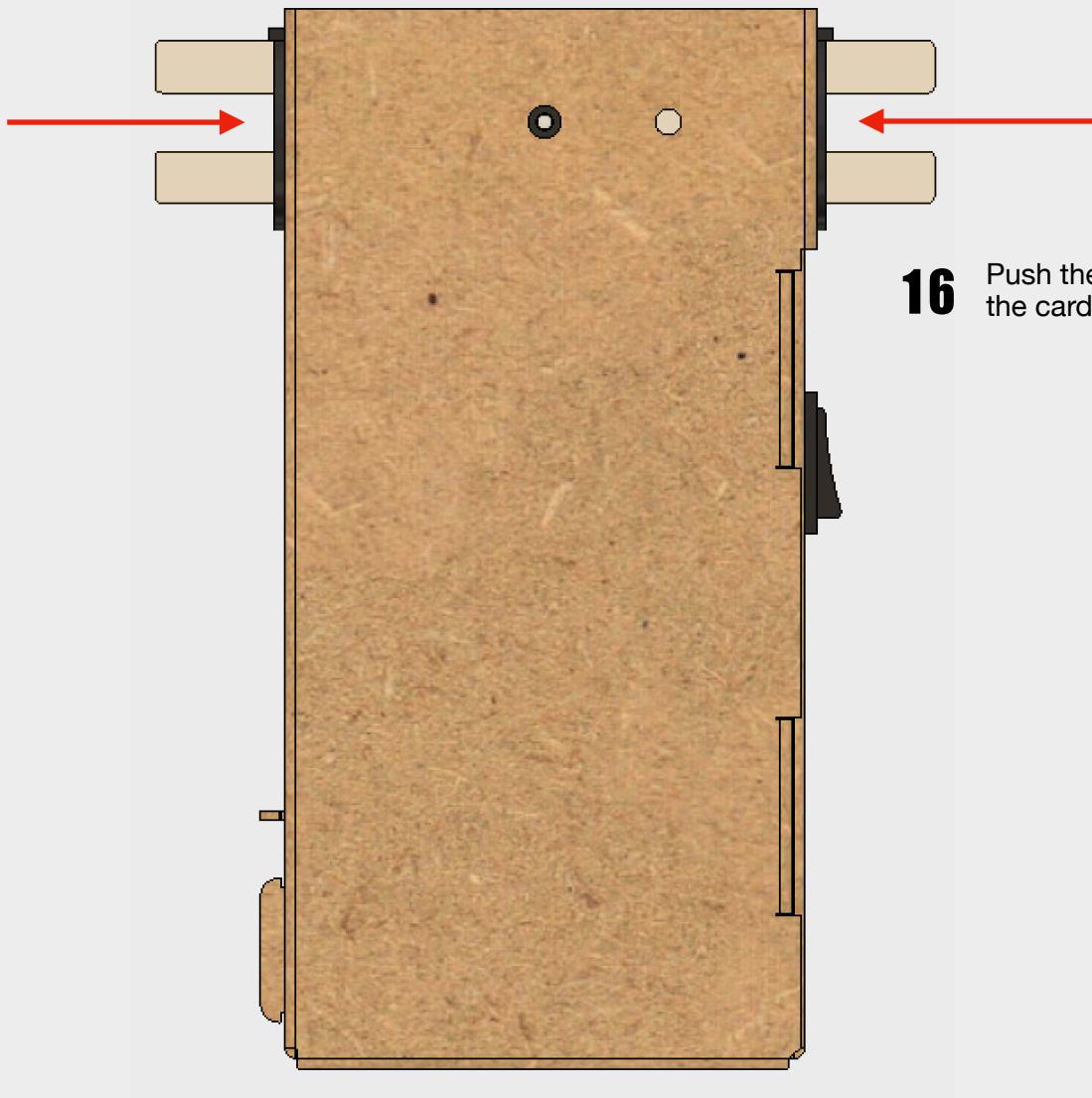
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**14** Fold the Cardboard.



**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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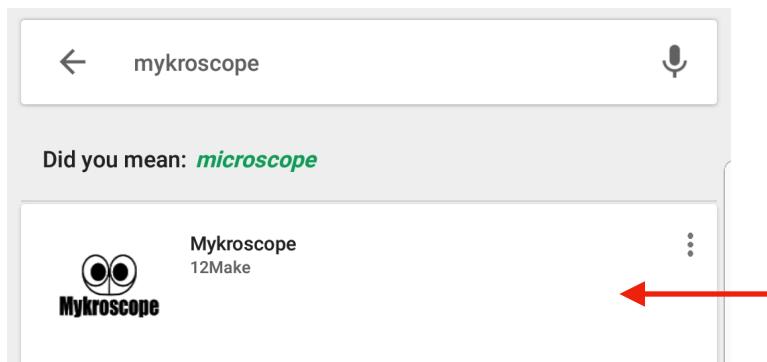


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# Mykroscope App



Google Play



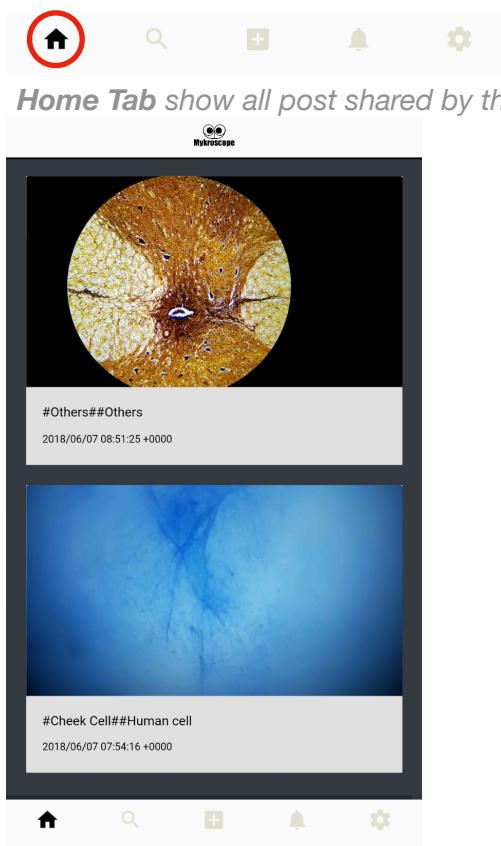
- 1 Download the Mykroscope app from the Google Play store.



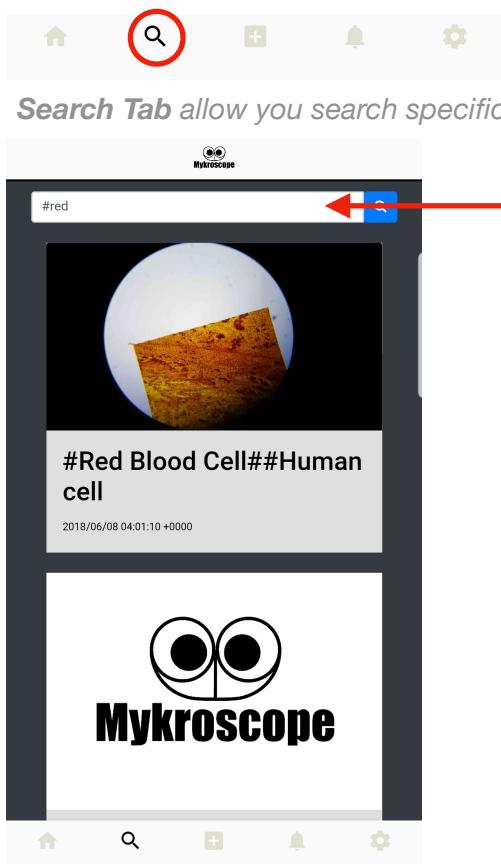
- 2 Log in with your Facebook account.

### 3 Familiarise with the interface.

#### Home Tab

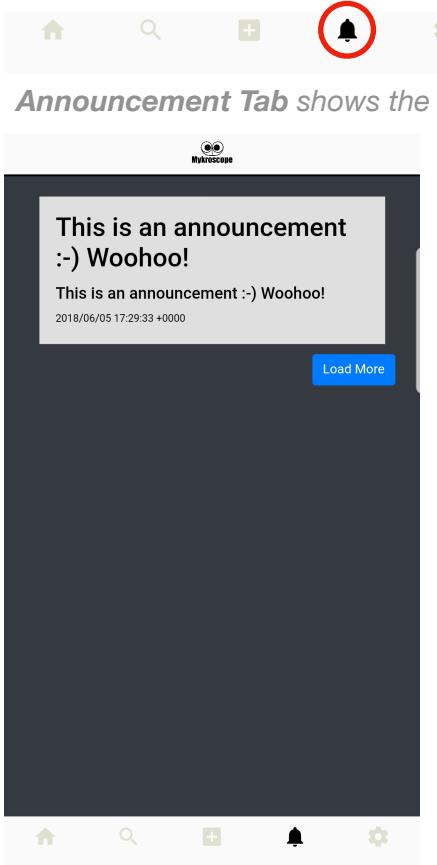


#### Search Tab



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

## Announcement Tab



## Setting Tab

**Setting Tab** provides more information about the Mykroscope

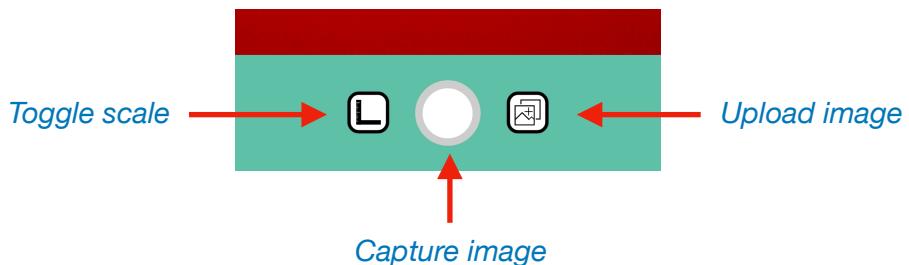
|  |            |   |
|--|------------|---|
|  | Website    | Click to visit the Mykroscope website                   |
|  | Github     | See all the files on Github. Mykroscope is open source. |
|  | Contact Us | Contact us via e-mail.                                  |

Logout

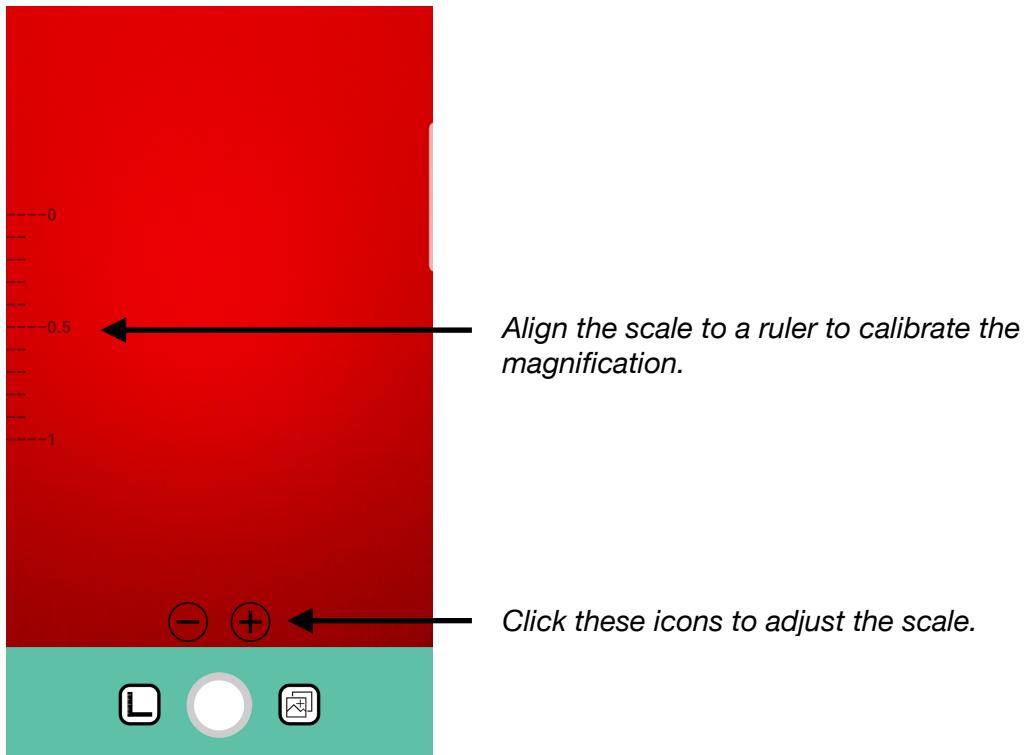
## Camera Tab



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

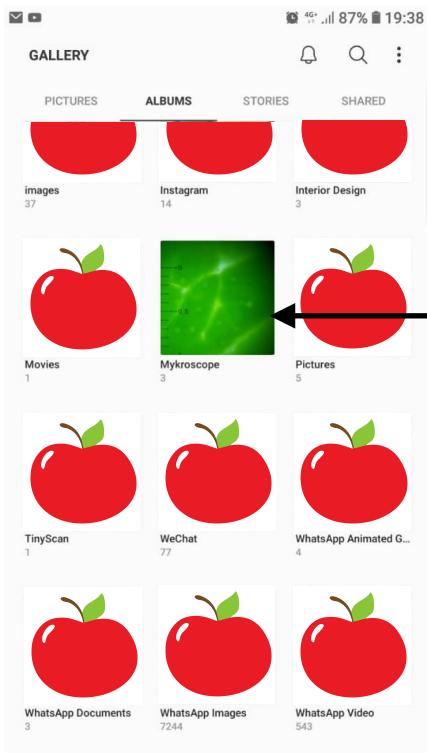


### 4 Capturing and sharing an image.

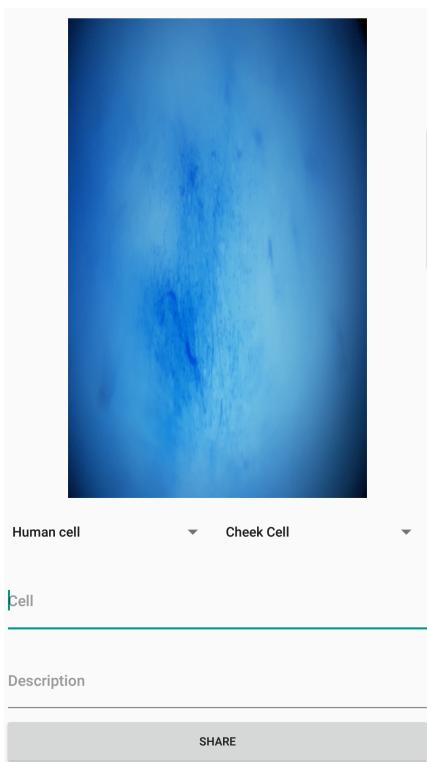




Press *Upload Image* button



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