

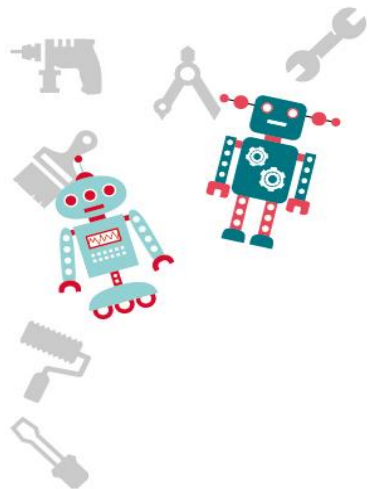
FLSH

自走玩具

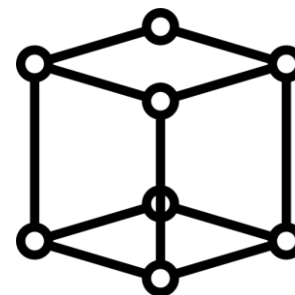
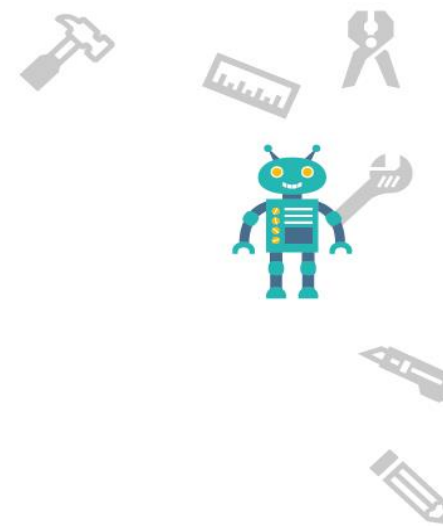
屏東縣立枋寮高級中學教師自造者社群



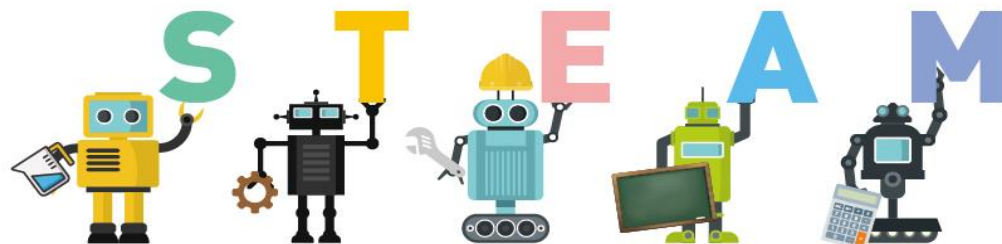
Fun Maker



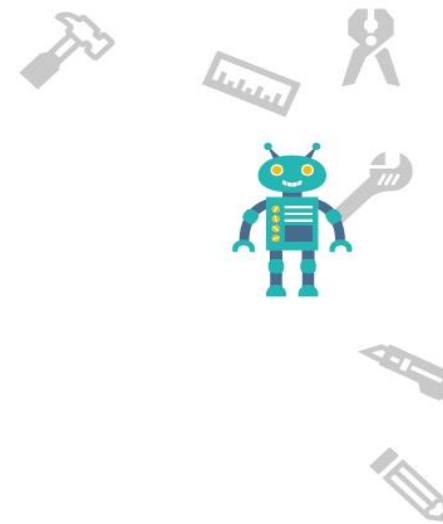
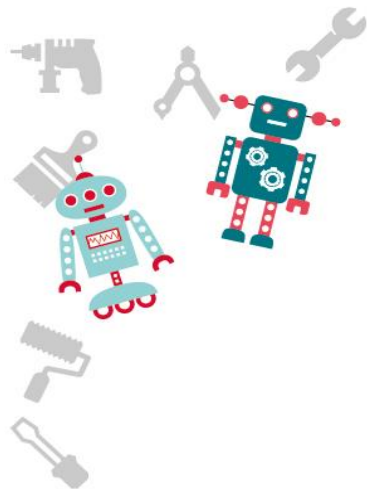
我們嘗試了 不同類型的自走玩具



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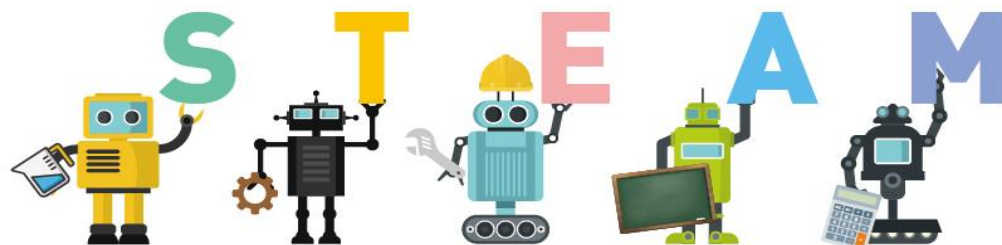


Fun Maker

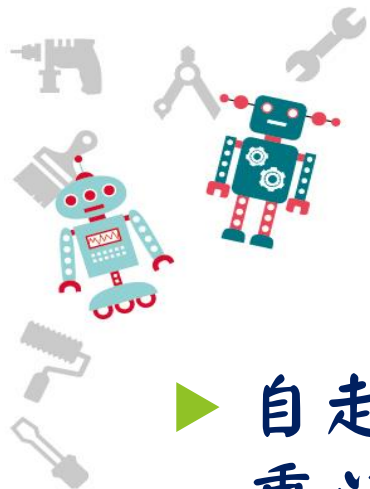


自走玩具動態模擬

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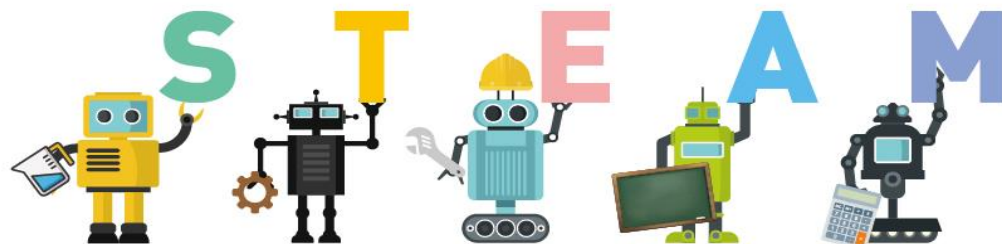
Fun Maker



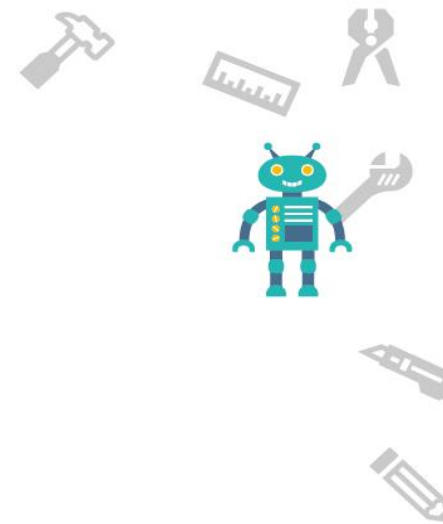
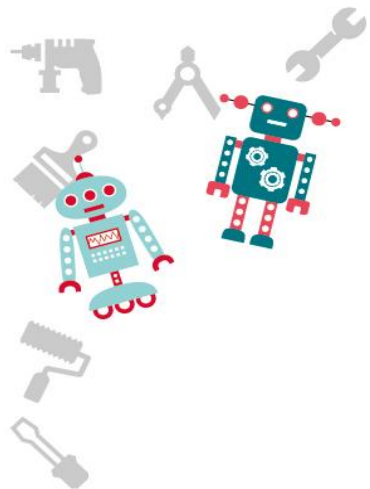
自走玩具的原理

- ▶ 自走玩具放在斜坡的頂點位置, 由於地心引力和重心改變的關係, 會自動步行下斜坡
- ▶ 自走玩具的主要關鍵有三點:
 1. 後腳支點的位置
 2. 腳的長度
 3. 斜坡的高度

FLSH



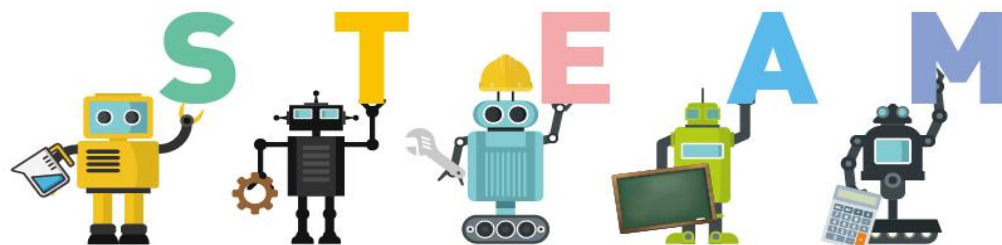
Fun Maker



開始動手囉~

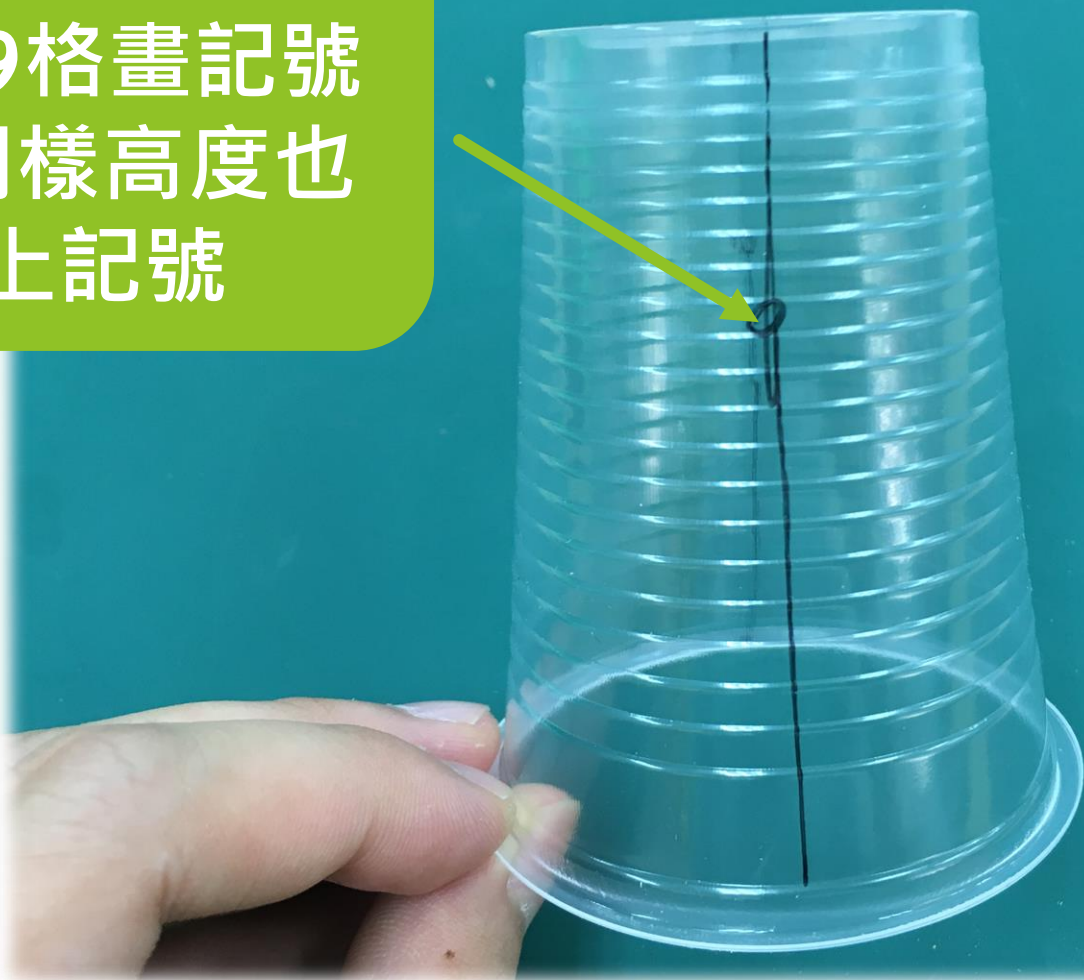


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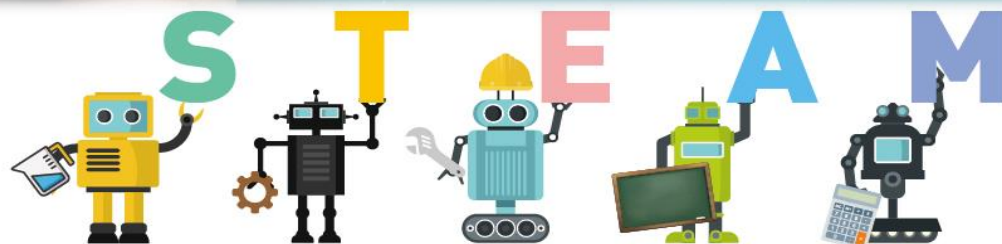


Fun Maker

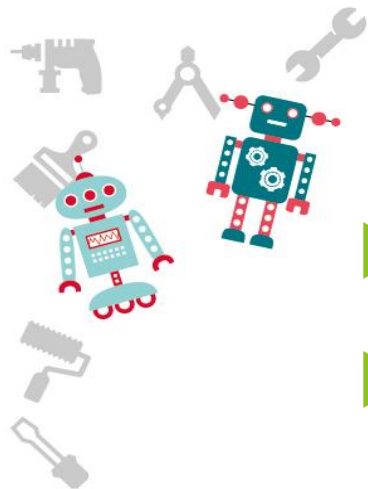
由上往下數
第8或9格畫記號
對面同樣高度也
做上記號



FLSH



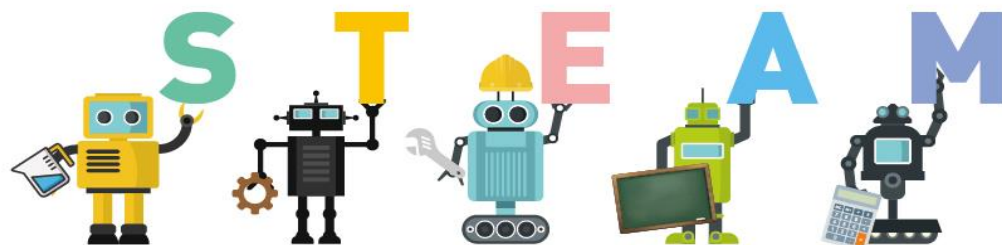
Fun Maker



- ▶ 在剛剛兩個做記號的地方挖小洞
- ▶ 在此版本中, 我們利用焊槍挖洞較方便

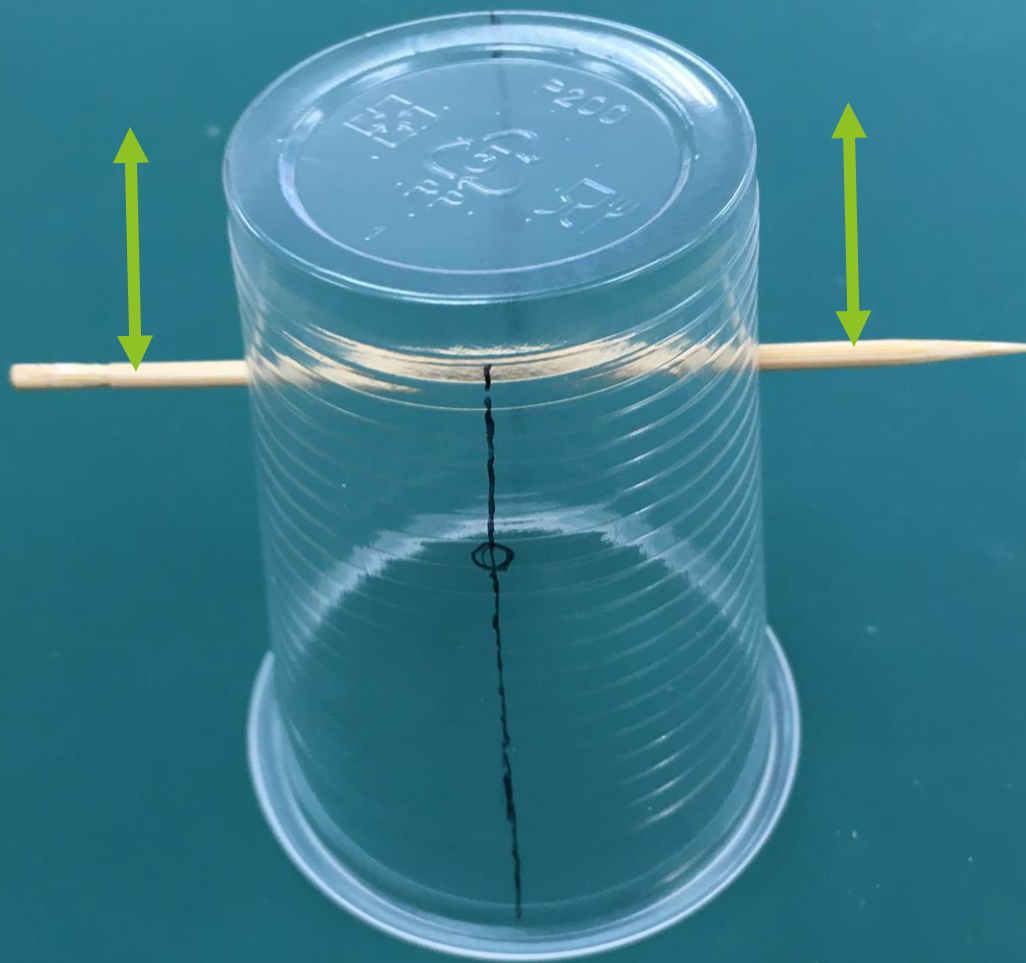


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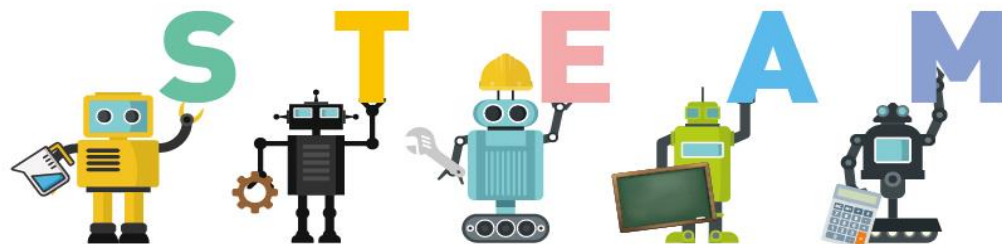


Fun Maker

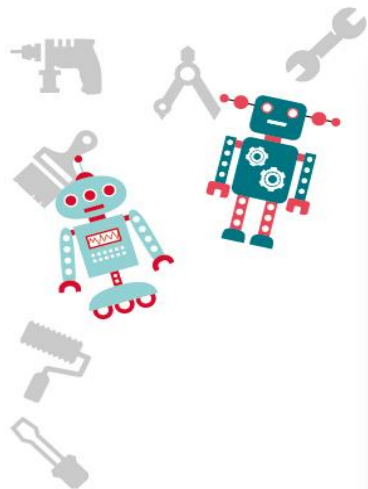
左右注意等高



FLSH

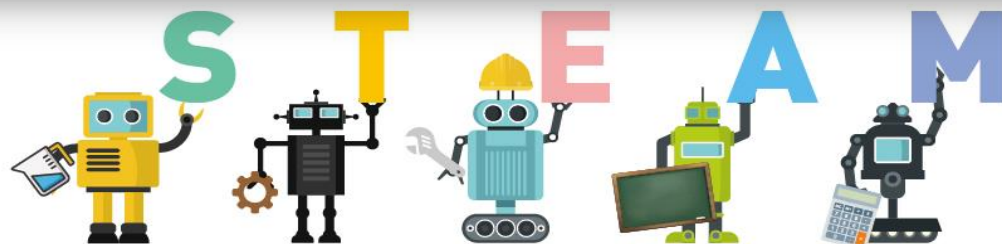


Fun Maker

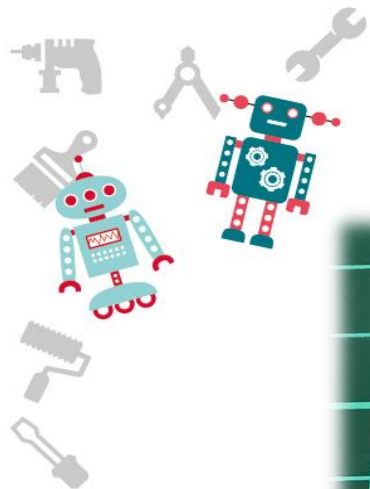


插入竹籤要可以自由且
輕易地轉動,但不可太鬆

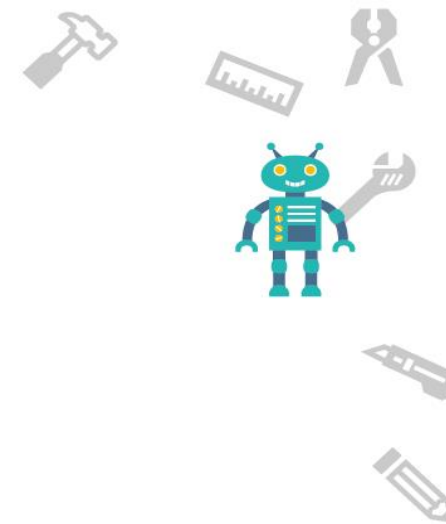
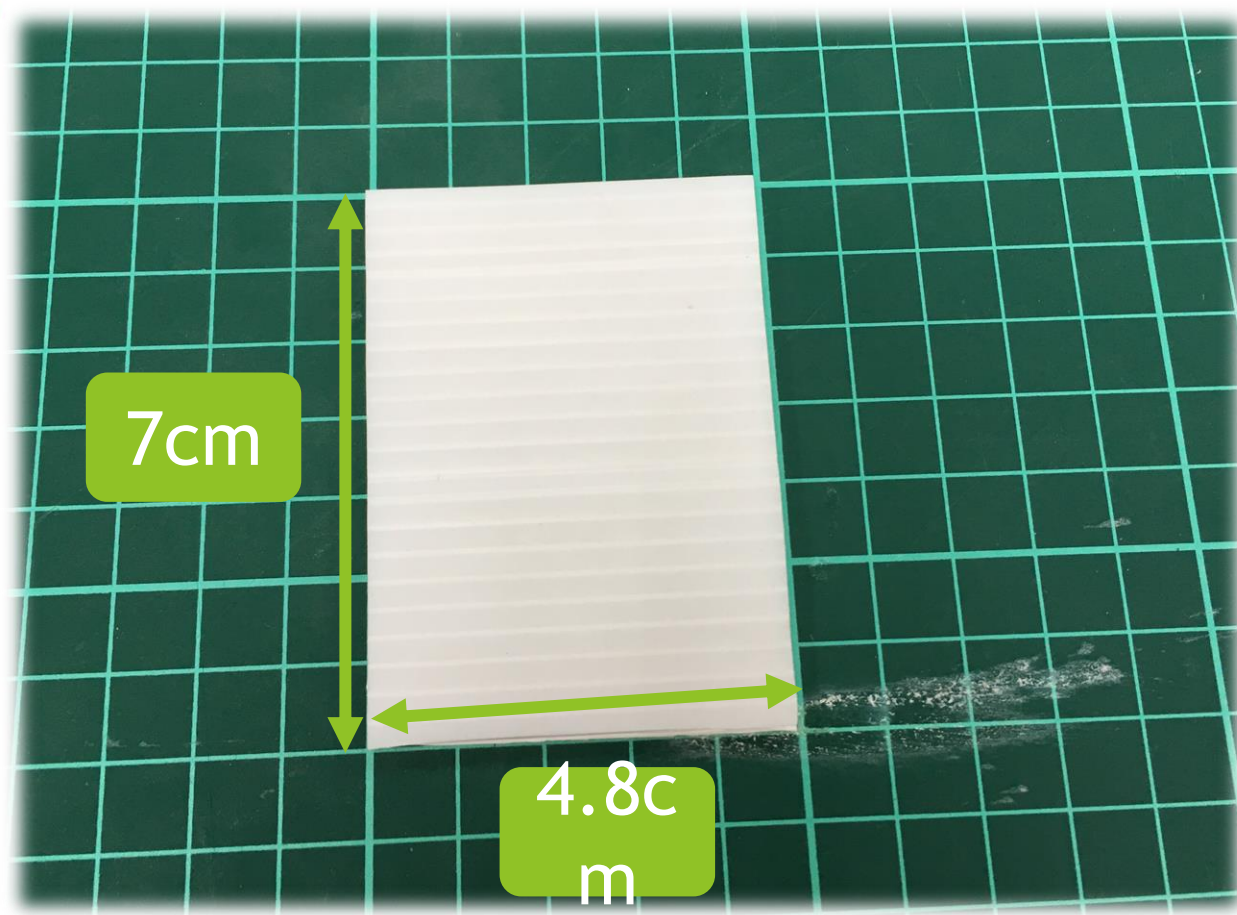
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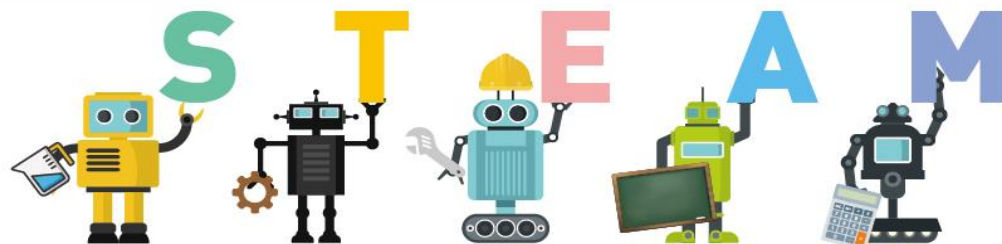
Fun Maker



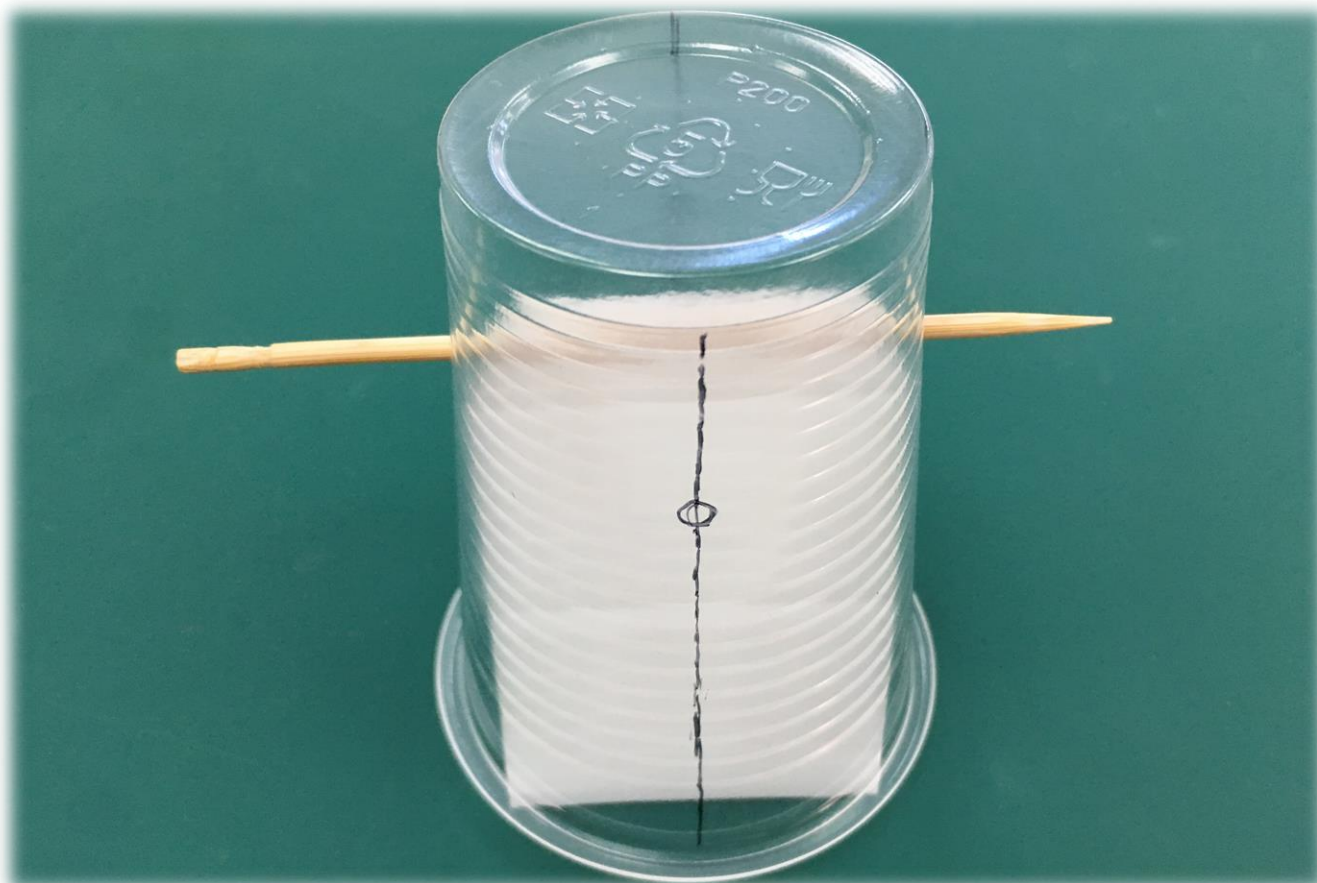
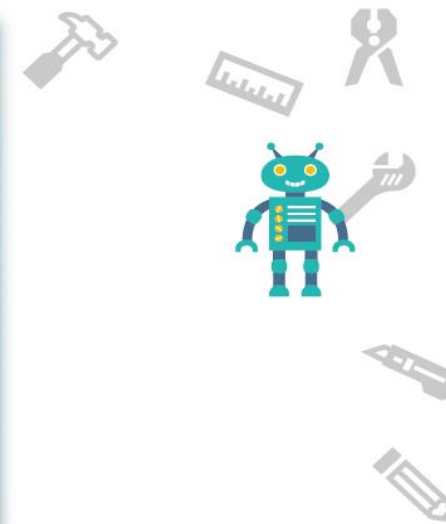
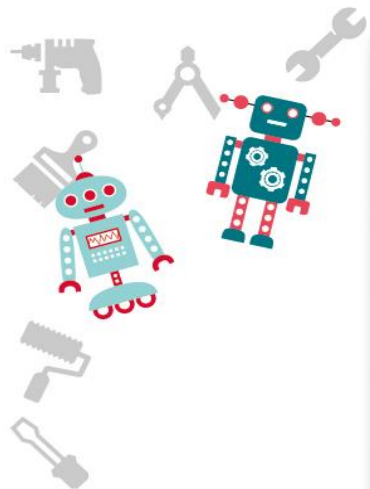
裁切PP板1塊



FLSH

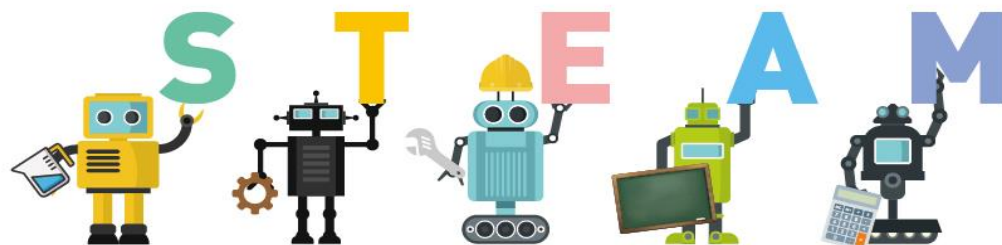


Fun Maker



PP版放入紙杯後應容易轉動

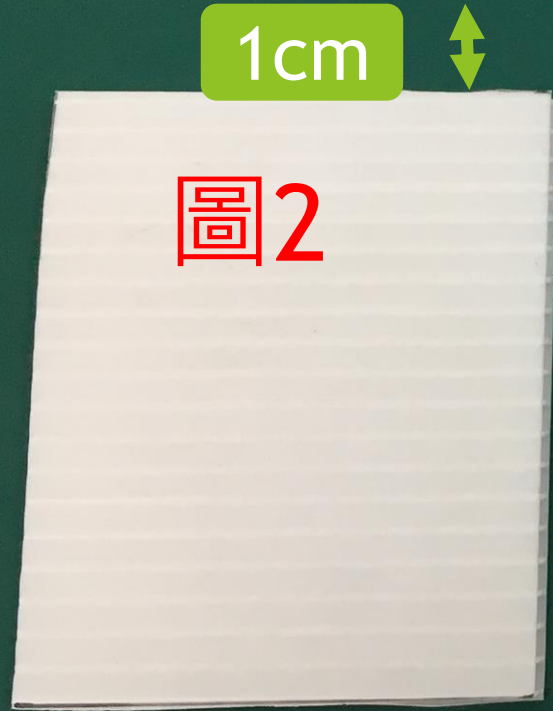
FLSH



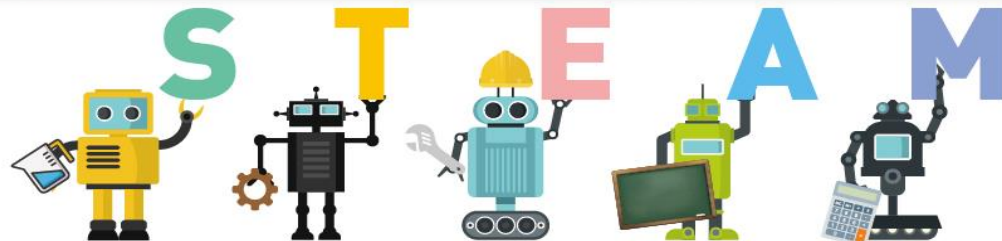
Fun Maker



上一步驟測試沒問題後，另外裁切略矮1cm 的PP板兩塊(圖2&圖3)

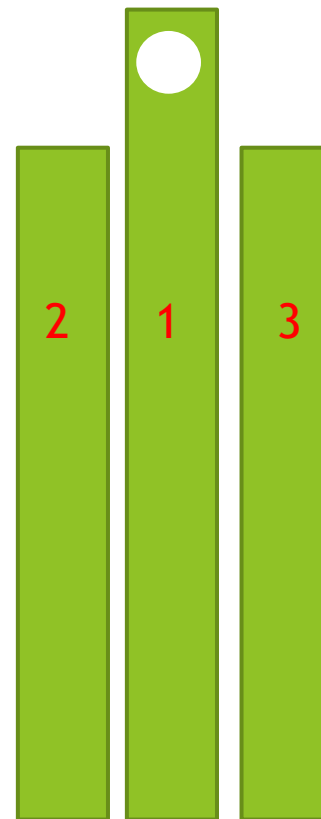
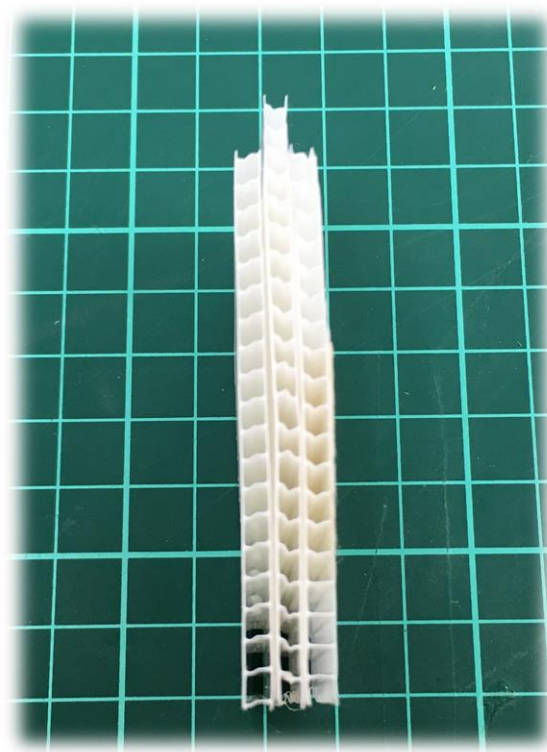


FLSH

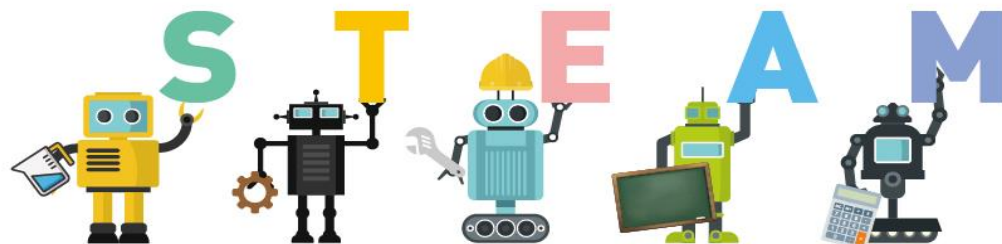


Fun Maker

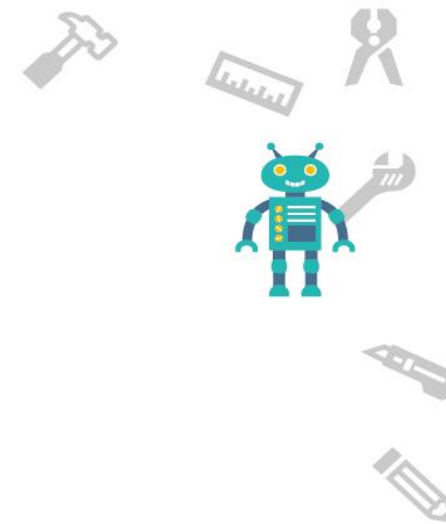
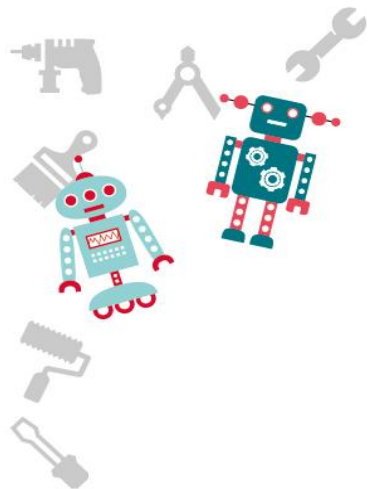
在上一步驟的PP板(圖1)前後黏上圖2,圖3



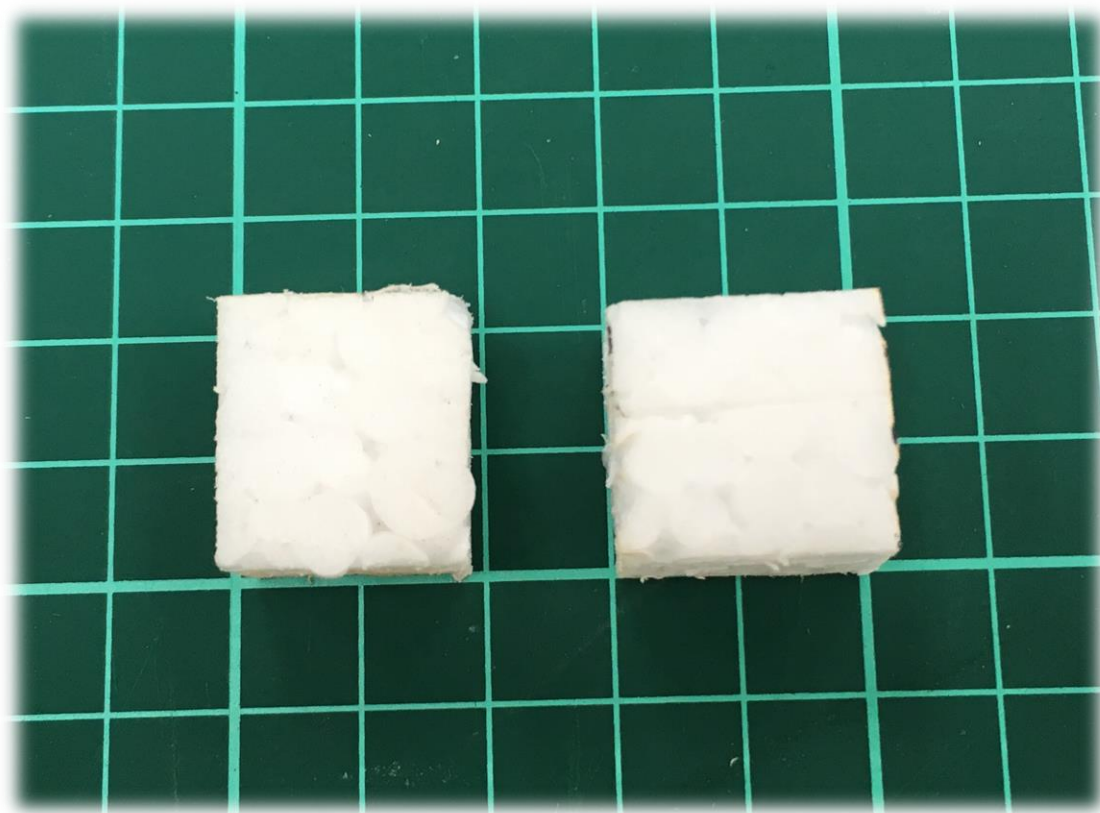
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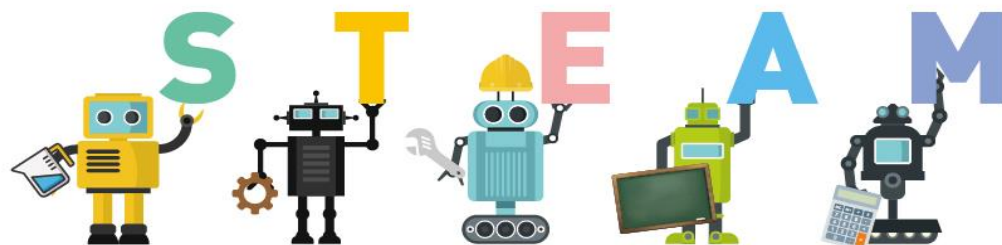
Fun Maker



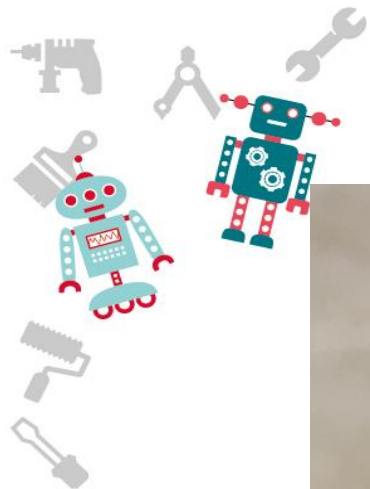
裁切2 X 2 X 1.5 公分的保麗龍塊 2 塊



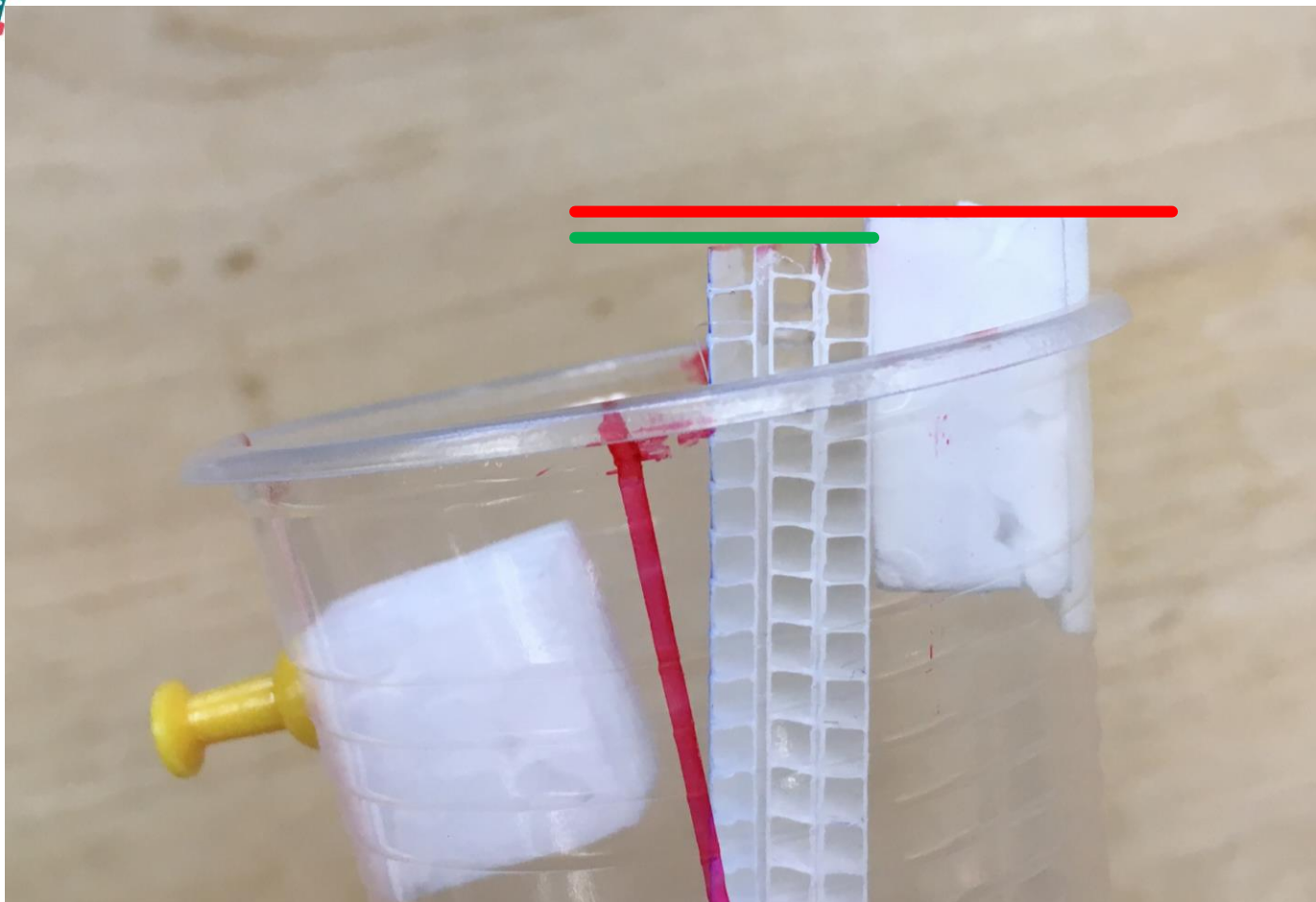
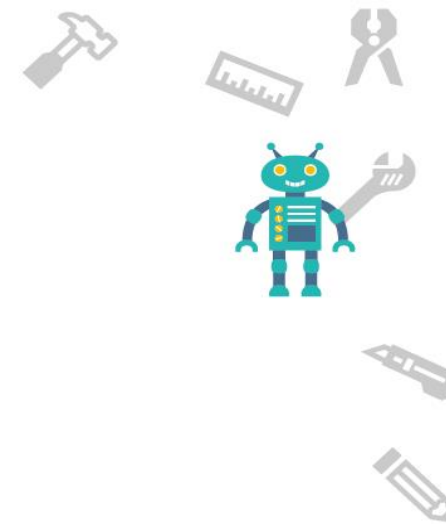
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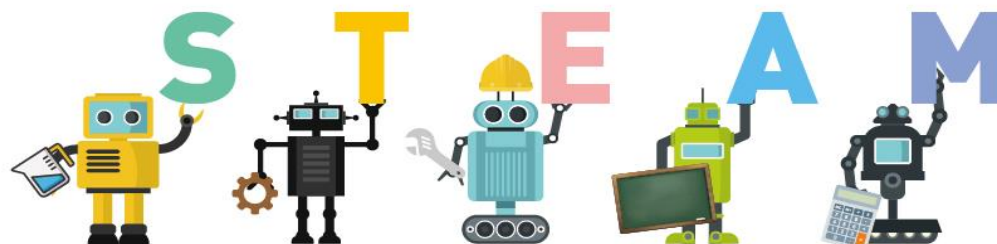
Fun Maker



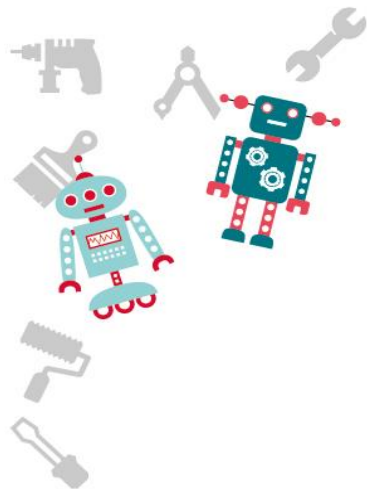
前腳比PP板高一點點



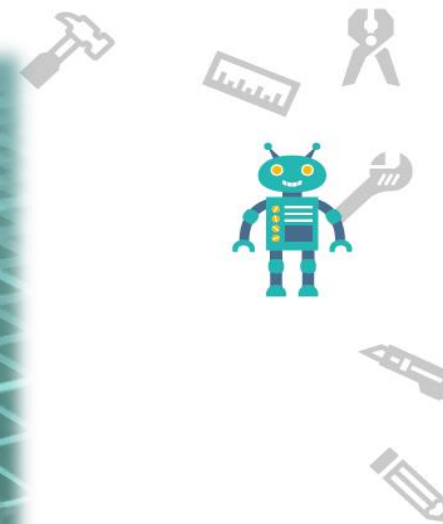
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Fun Maker

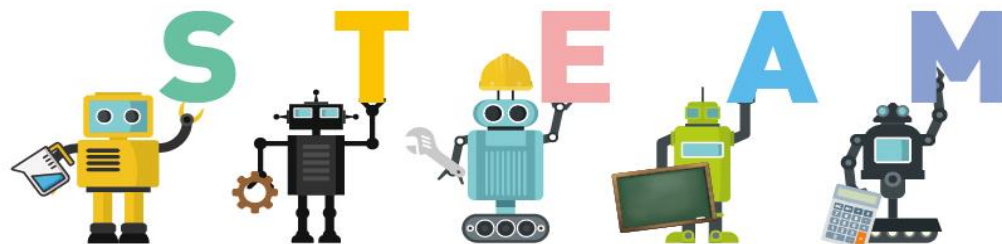


利用圖釘固定前腳

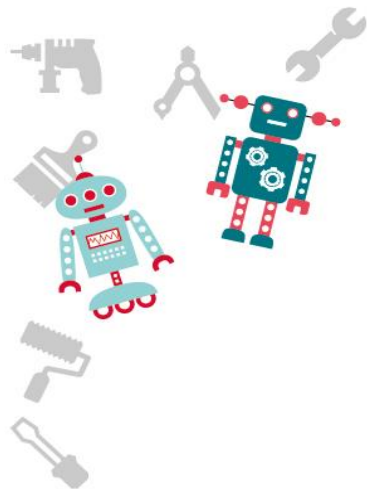


後話:測試成功後就可以直接用雙面膠(泡棉膠)固定

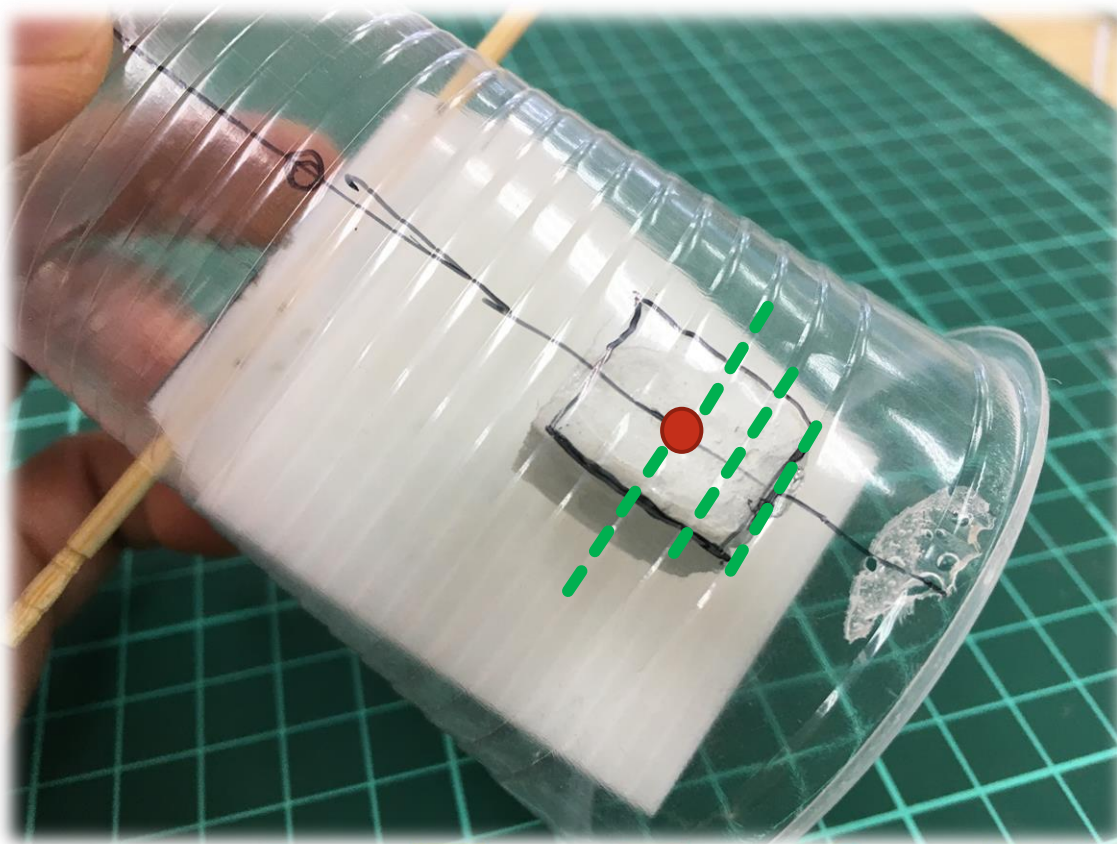
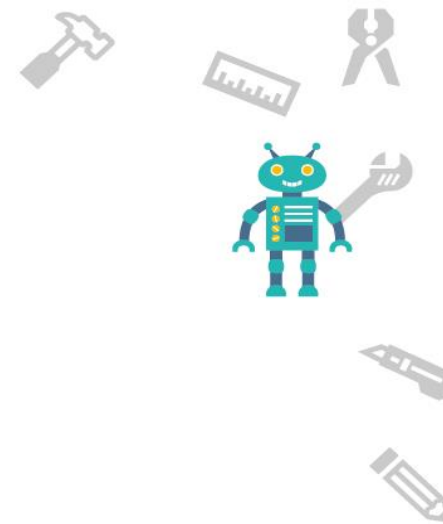
FLSH



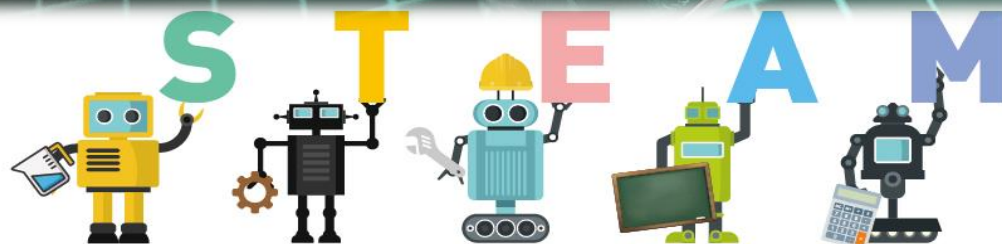
Fun Maker



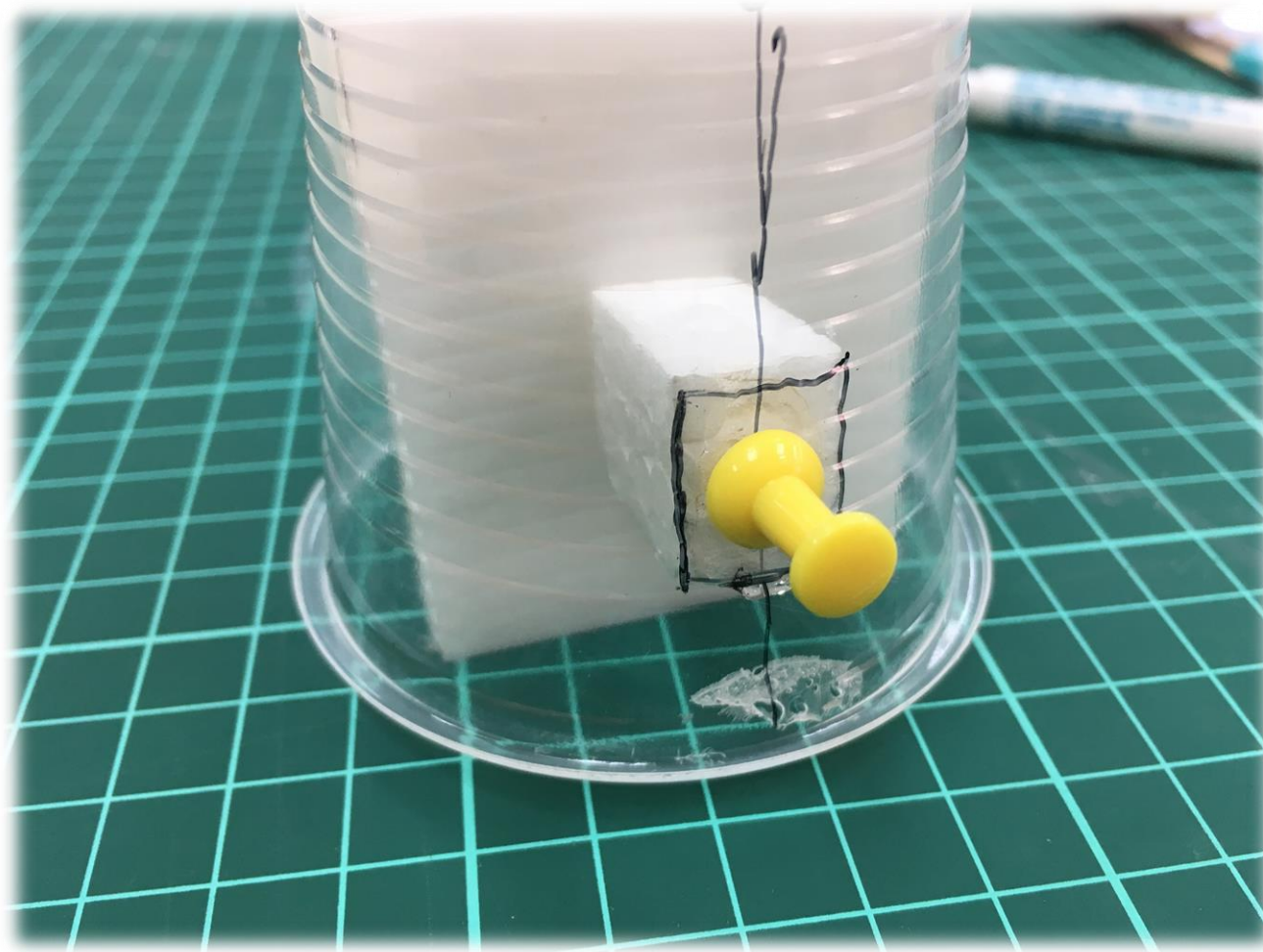
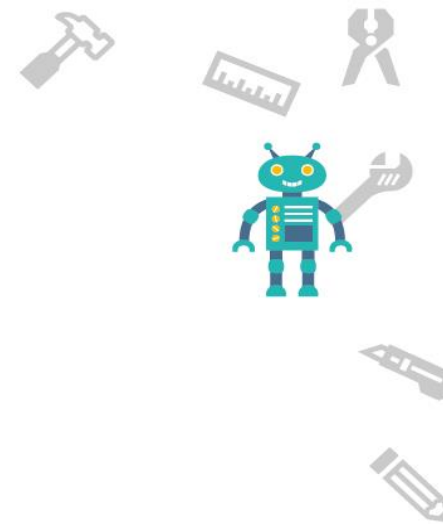
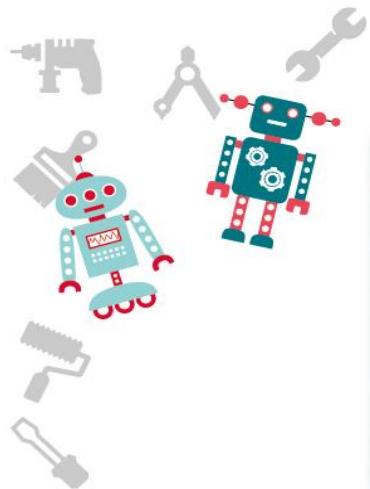
後腳~由下往上數第3條線的位置，
用圖釘固定保麗龍塊



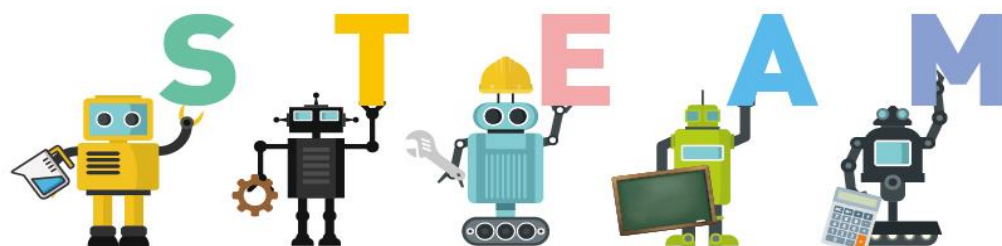
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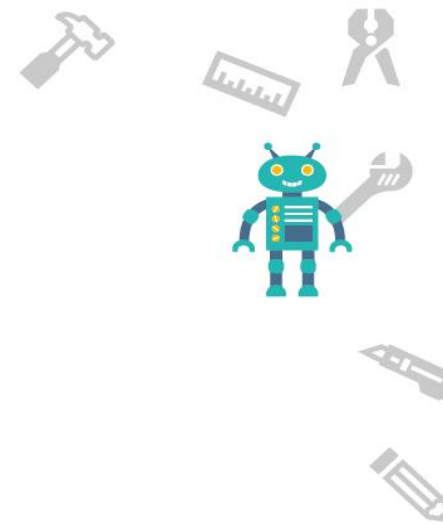
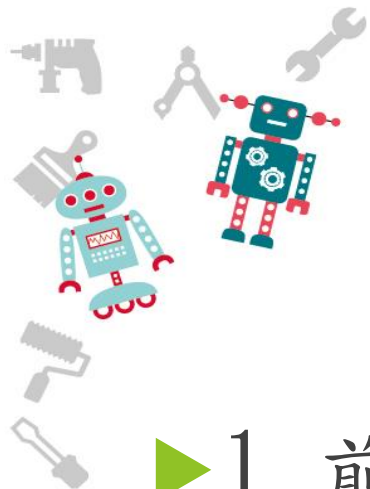
Fun Maker



FLSH



Fun Maker

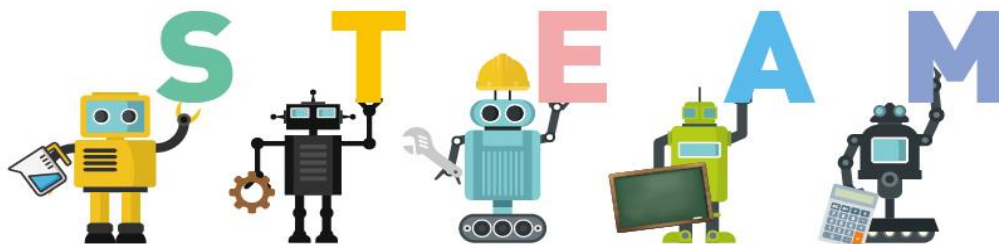


試走並調整

- ▶ 1. 前腳-比杯緣還要再突出一些…
- ▶ 2. 後腳-保麗龍塊或圖釘的位置上下微調…
- ▶ 3. 坡度-調整適合的坡度

大家可以自由嘗試調整…

FLSH



Fun Maker