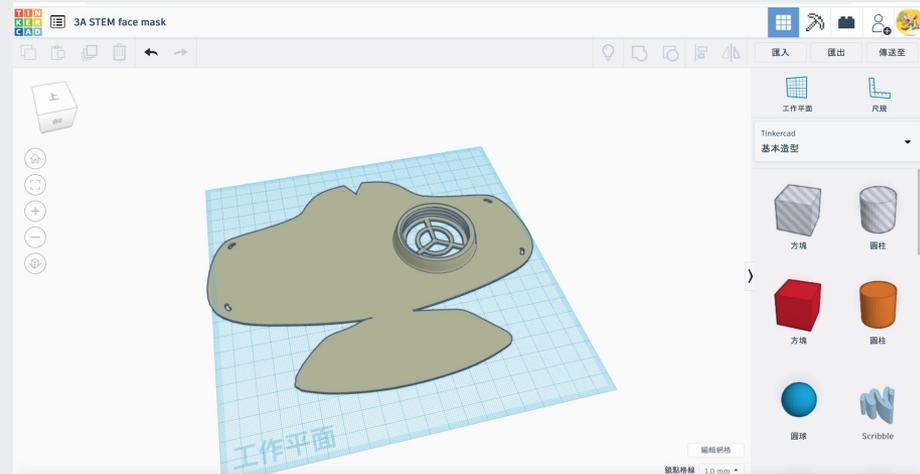


# 宣道會陳朱素華紀念中學

## 中三STEM科(單數)

### 3D 打印繪圖應用



部件一: 口罩  
主體(face  
mask.stl)

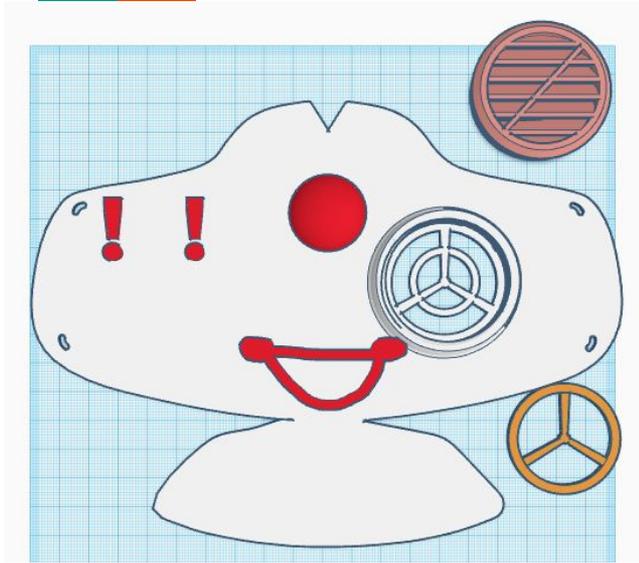


部件二: 壓濾材環  
(Cycle.stl)



部件三: 防飛沫呼吸  
吸蓋(outside.stl)

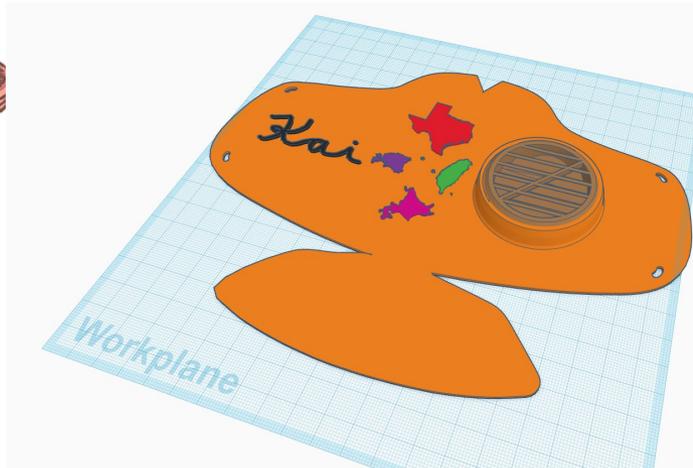
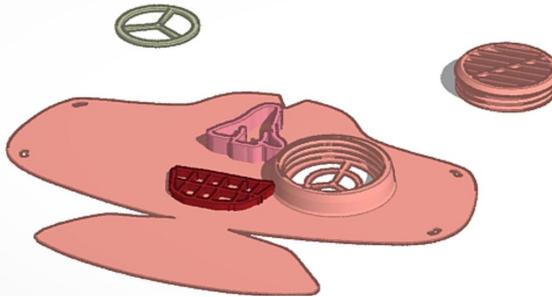
# 上學期 - 雙數同學作品



小丑竟是我自己



這是我所設計的3D模型



# 動手一同製作時間 (20 分鐘)

The image shows the Tinkercad software interface. At the top, the title bar reads "Copy of Stem share model". Below it are several toolbars:

- 步驟編輯 (Step Editor):** A toolbar with icons for undo, redo, and delete, highlighted with a red box.
- 功能編輯 (Feature Editor):** A toolbar with icons for edit, delete, and move, highlighted with a red box.
- 鏡頭控制 (Camera Control):** A vertical toolbar on the left with icons for home, reset, zoom in, zoom out, and rotate, highlighted with a red box.
- 模型、素材選擇 (Model/Part Selection):** A panel on the right titled "Tinkercad 基本造型" (Basic Shapes) containing icons for various 3D shapes like blocks, cylinders, spheres, and a scribble tool, highlighted with a red box.

The central workspace shows a 3D model on a blue grid. The model consists of a large dark blue base with two curved flaps, a red circular component with three spokes, and a stack of three yellow cylindrical components. The text "工作平面" (Workplane) is visible on the grid.

# KEYBOARD SHORTCUTS

Legend:  Ctrl /  Cmd /  Alt /  Option

## MOVING OBJECT(S)

(Using keyboard)

Move along X/Y axis  /  /  / 

Move along Z axis  +  / 

×10 Nudge along X/Y axis  +  /  /  / 

×10 Nudge along Z axis  +  +  / 

## KEYBOARD + MOUSE SHORTCUTS

(Press and hold the keys, then click and drag the mouse)

**Duplicate** dragged object(s)  + Drag left mouse button

**Select** multiple object(s)  + Left mouse button

45° rotation  (Hold while rotating)

Scale in one direction  + Hold side handle

Scale in two directions  + Hold corner handle

Uniform scale  + Hold corner handle

Uniform scale in all directions  +  + Corner handle

Uniform scale in all directions  +  + Top handle

## VIEWING DESIGNS

(With the help of a mouse or a mouse pad)

Orbit the view Right mouse button

Orbit the view  + Left mouse button

Pan the view  + Right mouse button

Pan the view  +  + left button

Zoom the view in or out Mouse scroll wheel

Zoom-in 

Zoom-out 

Fit selected object(s) into view 

## OBJECT SETTINGS

**Transparency** toggle 

Turn object(s) into **Holes** 

Turn object(s) into **Solids** 

**Lock** or **Unlock** object(s)  - 

**Hide** object(s)  - 

**Show all** hidden object(s)  -  - 

## TOOLS AND COMMANDS

**Copy** object(s)  - 

**Paste** object(s)  - 

**Duplicate** object(s) in place.  - 

**Delete** object(s) 

**Undo** action(s)  - 

**Redo** action(s)  - 

**Redo** action(s)  -  - 

**Group** object(s)  - 

**Un-group** object(s)  -  - 

**Align** object(s) 

**Flip/Mirror** object(s) 

**Select** all object(s)  - 

Place a **Ruler**  (  toggle midpoint/center )

Place a **Workplane**  ( press  to flip direction )

**Drop** object(s) to workplane 



# 1. 按下齒輪圖案

The image shows a screenshot of the Tinkercad web interface. On the left is a sidebar with navigation options: '搜尋設計...', '3D 設計', 'Circuits', '程式碼區塊', '課程', '加入課程', '專案', and '推文'. The main area displays '我最近的設計' (My recent designs) with a grid of project thumbnails. The 'Smashing Kup-Robo' project is highlighted with a red box. A red arrow points from this box to a larger, detailed view of the same project on the right. In this detailed view, a blue button labeled '編輯此內容' (Edit this content) and a red gear icon (edit settings) are both highlighted with red boxes and arrows. The detailed view also shows the title 'Smashing Kup-Robo', the time '7 天前' (7 days ago), and the privacy setting '私人' (Private).

圖庫 部落格 學習

搜尋設計...

3D 設計

Circuits

程式碼區塊 新建

課程

加入課程

專案

19-20 S3\_CL

+ 建立專案

推文 關注

我最近的設計

建立新設計

3D mask STEM  
1 分鐘前  
公開

Swanky Sango  
6 天前  
私人

編輯此內容 齒輪圖示

Smashing Kup-Robo  
7 天前  
私人

Smashing Kup-Robo

7 天前  
私人

Swanky Juttuli  
24 天前

Incredible Borwo  
24 天前

編輯此內容

Smashing Kup-Robo

7 天前  
私人

齒輪圖示

https://www.tinkercad.com/things/46ojMzi8jzQ-smashing-kup-robo

# 步驟2

按下性質





### 設計性質

設計名稱

設計描述

標籤 (最多 5 個)

隱私權

授權

取消 儲存變更

**改名稱：  
班 + 學號 + 名**

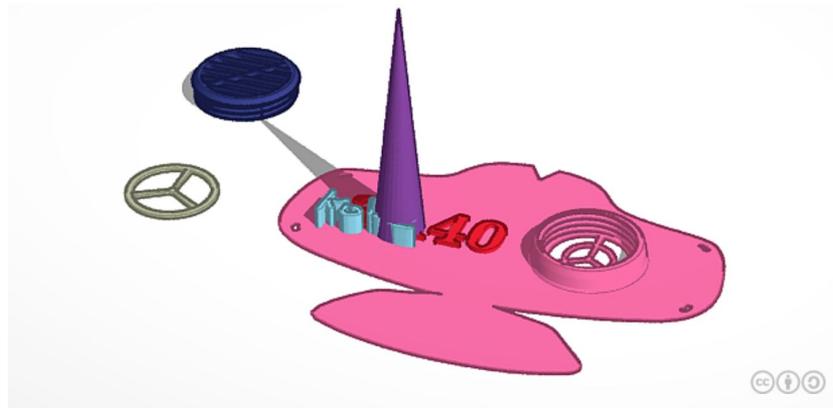
**選擇公開**

編輯此內容



3A 40 mask

20 天前  
公開



下載

Like 0 Share

Thingiverse Pin it

在 3D 中檢視

加入影像



2. 把連結複製到  
邀交功課

連結: <https://www.tinkercad.com/thing/xyz>

這是 [ ] 所做 3A 40 3D mask 的原稿。

1. 用滑鼠按一下。