

# Design & Technology

2021

## F.1 Tinkercad

L1-P.8



TINKERCAD AUTODESK TINKERCAD

圖庫 部落格 學習 教授 登入

立即加入

### 從構想到設計只需幾分鐘

Tinkercad 是一款易於使用的免費應用程式，適用於 3D 設計、電子元件和編碼。教師、兒童、業餘愛好者和設計師均可使用它來構思、設計及製作任何內容！

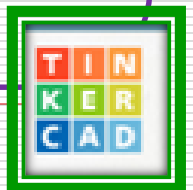


# Design & Technology

## F.1 Tinkercad

2021

L1-P.9



# Design & Technology

## F.1 Tinkercad

2021

L1-P.11



The screenshot shows the Tinkercad website interface. At the top left is the Tinkercad logo, which consists of the letters 'TIN', 'KER', and 'CAD' in a 3x3 grid, followed by 'AUTODESK TINKERCAD'. To the right of the logo are navigation links: '圖庫' (Library), '部落格' (Blog), '學習' (Learn), and '教授' (Teach), along with a search icon and a user profile icon. Below the navigation is a main content area. On the left, there is a user profile for 'leung\_kwong\_fai' with a blue robot icon. Below the profile is a search bar with the placeholder text '搜尋設計...' and a blue button labeled '3D 設計'. To the right of the profile is a featured article titled 'Tinkercad Lesson Plans' with a close button (X). The article text reads: 'Tinkercad lesson plans are ready to use online or in the classroom. Discover curriculum developed in partnership with teachers. [Learn more](#)'. Below the article is a section titled '我最近的設計' (My recent designs) with a blue button labeled '建立新設計' (Create new design). On the far right of this section is a 'Select' button with a checkmark icon.



## Tinkercad

- Log in and off (3 times)
  - Practice of using the tools
-

# Design & Technology

2021

## F.1 Tinkercad

L2-P.1

Log In your **Tinkercad**

Google **tinkercad**

全部 圖片 影片 地圖 書籍 更多 設定 工具

約 1,440,000 項搜尋結果 (0.28 秒)

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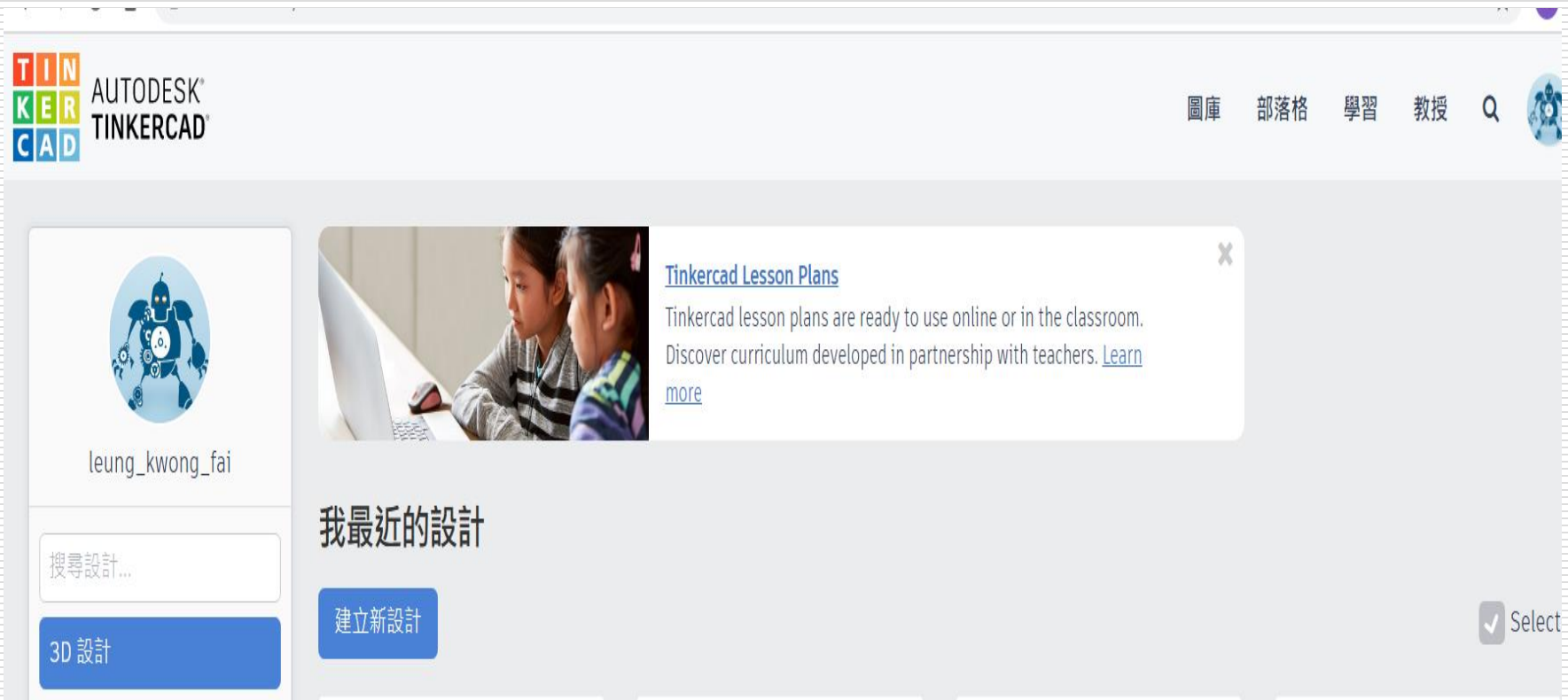


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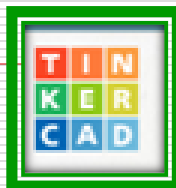
## F.1 Tinkercad

2021

L2-P.3



The screenshot shows the Tinkercad website interface. At the top left is the Tinkercad logo, which consists of the letters 'TIN', 'KER', and 'CAD' in a 3x3 grid of colored squares, followed by the text 'AUTODESK TINKERCAD'. To the right of the logo are navigation links: '圖庫' (Library), '部落格' (Blog), '學習' (Learn), and '教授' (Teach), along with a search icon and a user profile icon. Below the navigation is a main content area. On the left, there is a user profile for 'leung\_kwong\_fai' with a circular profile picture of a robot. Below the profile is a search bar with the placeholder text '搜尋設計...' and a blue button labeled '3D 設計'. To the right of the profile is a featured article titled 'Tinkercad Lesson Plans' with a close button (X). The article text reads: 'Tinkercad lesson plans are ready to use online or in the classroom. Discover curriculum developed in partnership with teachers. [Learn more](#)'. Below the article is a section titled '我最近的設計' (My recent designs) with a blue button labeled '建立新設計' (Create new design). On the far right of this section is a 'Select' button with a checkmark icon.

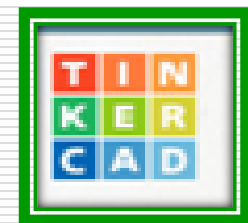
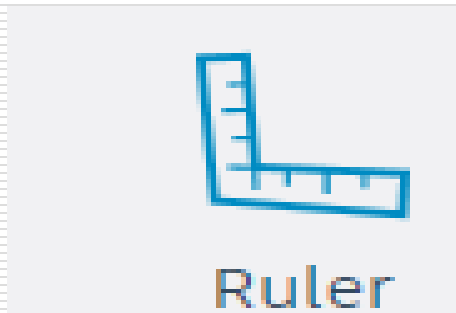
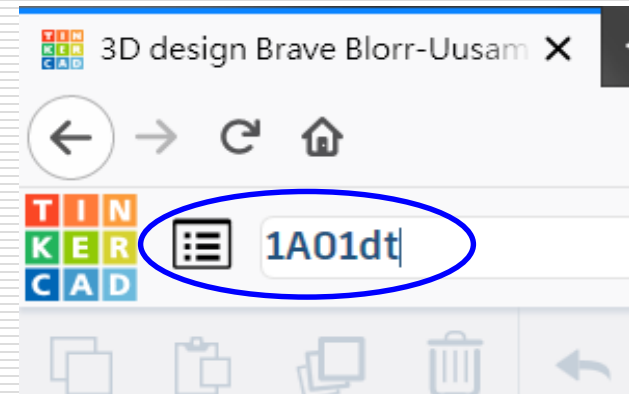
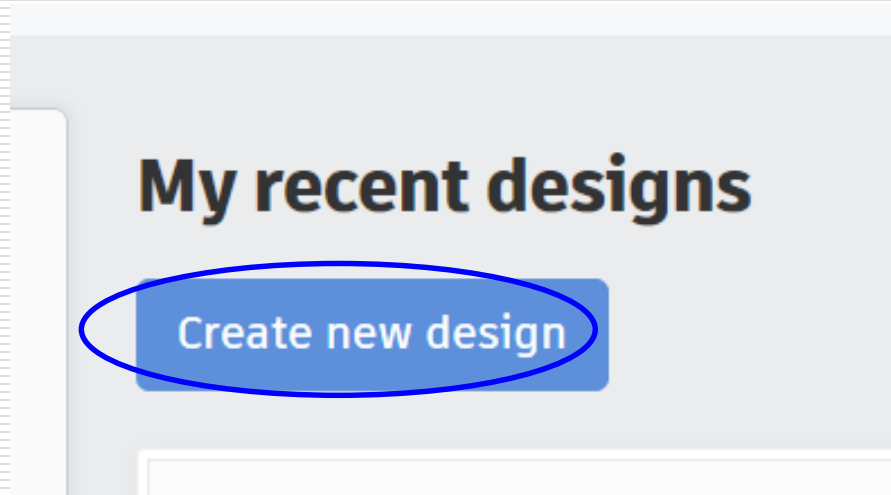


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## F.1 Tinkercad

2021

L2-P.4

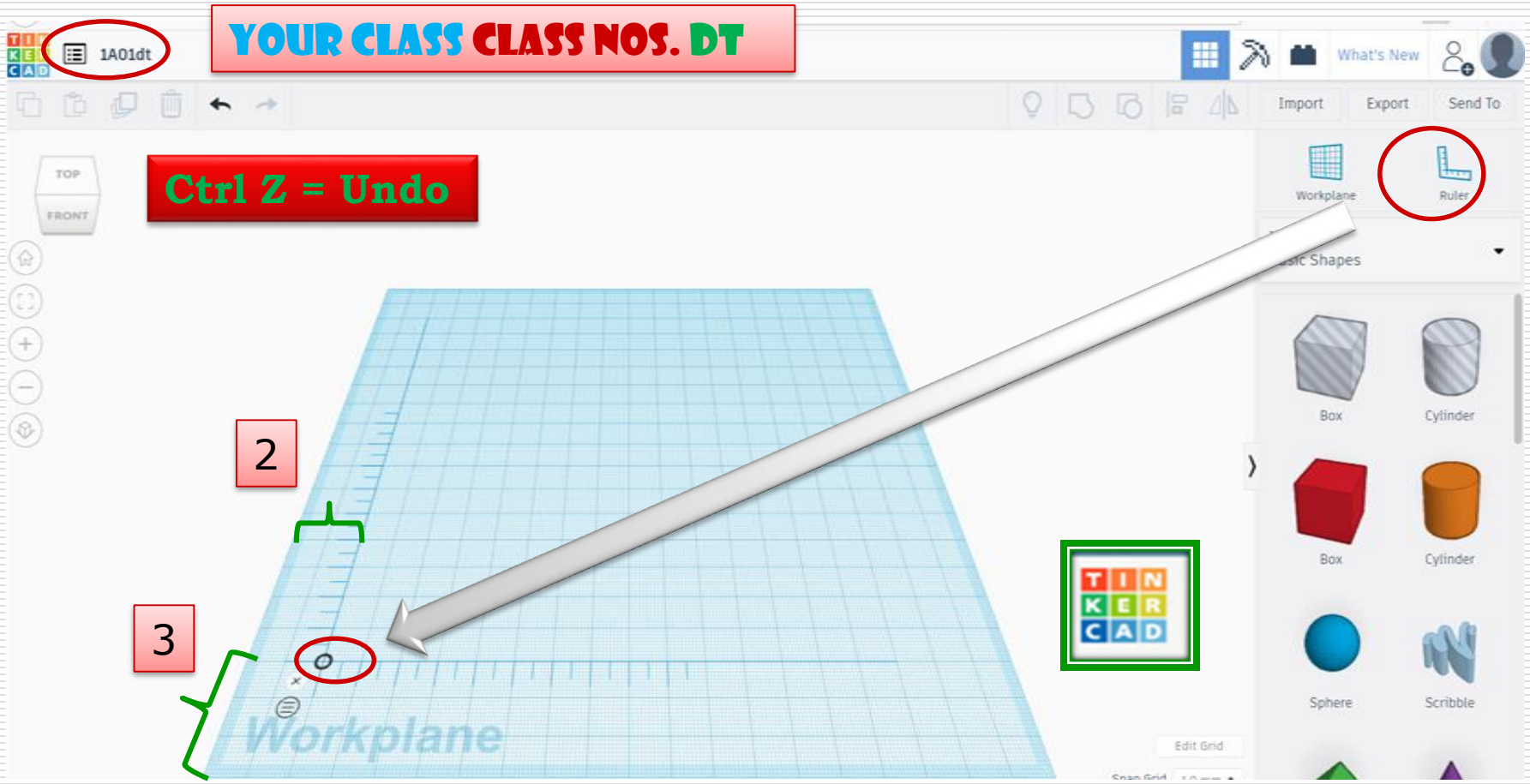


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## F.1 Tinkercad

2021

L2-P.5





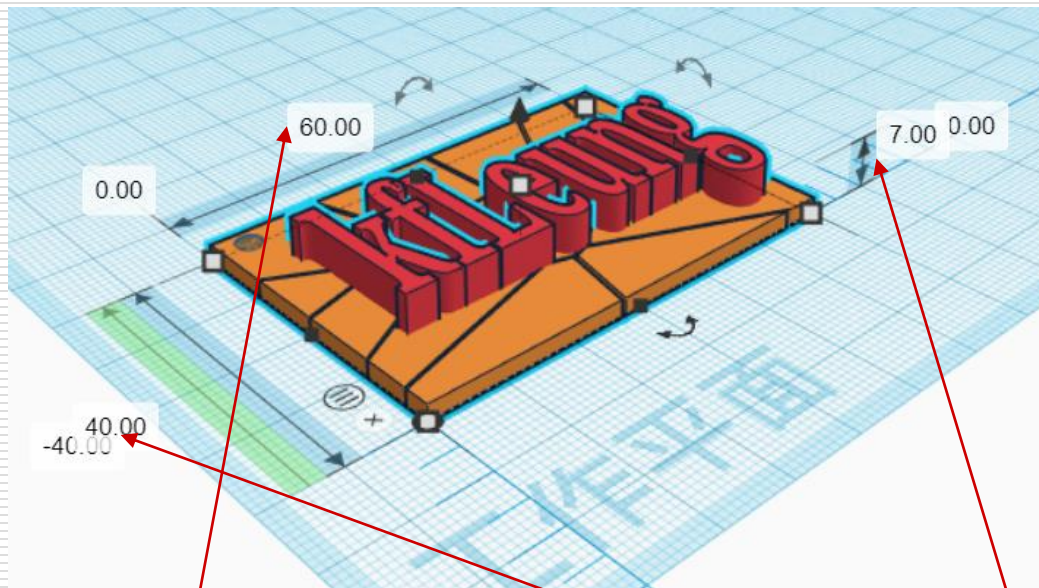
# Design & Technology

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## F.1 Tinkercad

L2-P.6

### Method 1 : Basic Design



**VOLUME : 60MM LENGTH X 40MM WIDTH X 7MM HEIGHT**  
**HOLE : DIAMETER - 2MM**

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## F.1 Tinkercad

L2-P.7

1) Draw a base 60 x 40 x 2 (mm)  
-Select tool  
-Adjust size  
-View

60.00

40.00

2.00 0.00

0.00

0.00

造型

實體 孔

半徑 0

步驟 10

長度 20

寬度 20

高度 20

工作平面 尺規

Tinkercad 基本造型

方塊 圓柱

方塊 圓柱

圓球 Scribble

編輯網格 鎖點格線 1.0 mm



# Design & Technology

2021

## F.1 Tinkercad

L2-P.8

2) Draw a hole 2 x 2 x 2 (mm)  
-Select tool  
-Adjust position  
-View

The screenshot shows the Tinkercad software interface. In the center, a red rectangular block is positioned on a blue grid. A hole tool is being used to create a hole in the block. The hole tool is highlighted with a green circle. The hole's dimensions are shown as 2.00 x 2.00 x 0.00. A keyboard image is overlaid on the workspace, with a key circled in green. The interface includes a toolbar at the top, a parts palette on the right, and a status bar at the bottom. The Tinkercad logo is visible in the bottom right corner.



3) Grouping 群組(Base + Hole)

- Select ( Left key of mouse)
- Confirm position
- Select tool





# Design & Technology

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## F.1 Tinkercad

L2-P.9

1A01dt

4) Draw Your Name  
-Select tool  
-Adjust position  
-View

匯入 匯出 傳送至

工作平面 尺規

Tinkercad  
基本造型

實體 孔

文字 KF

字體 Multilanguage

高度 10

Bevel 0

線段 0

屋頂 圓錐

圓形屋頂 文字

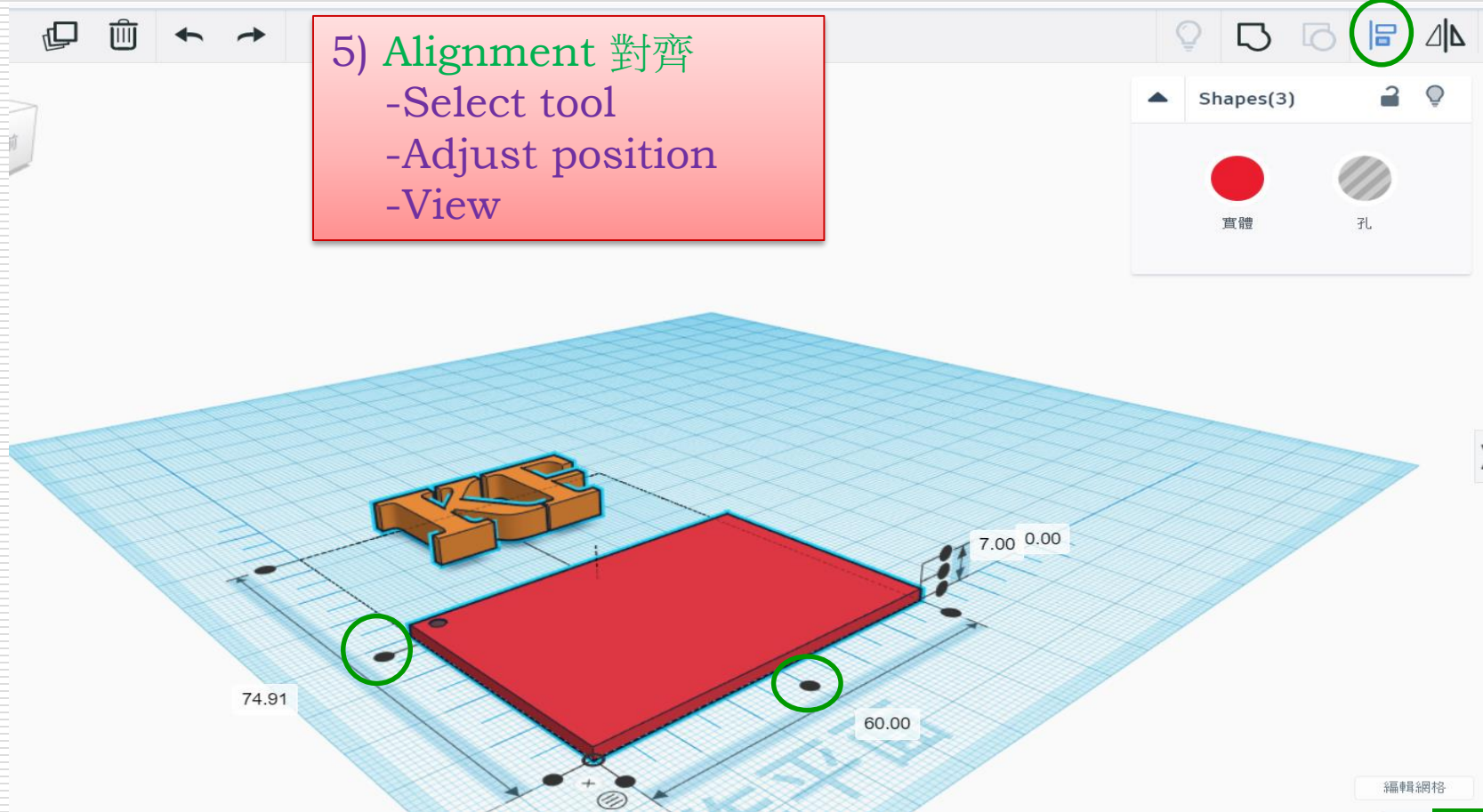
楔形塊 角錐

編輯網格

鎖點格線 1.0 mm

19.82 35.86 5.00 2.00



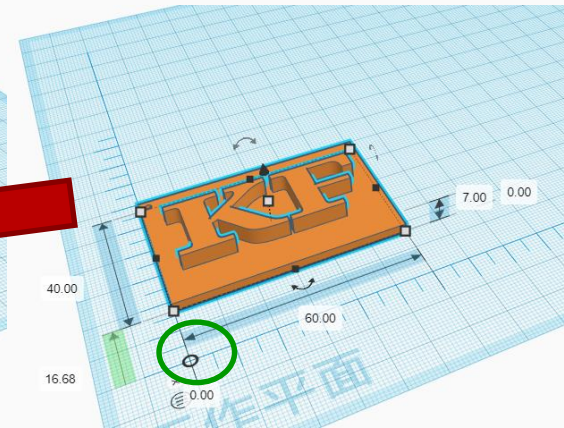
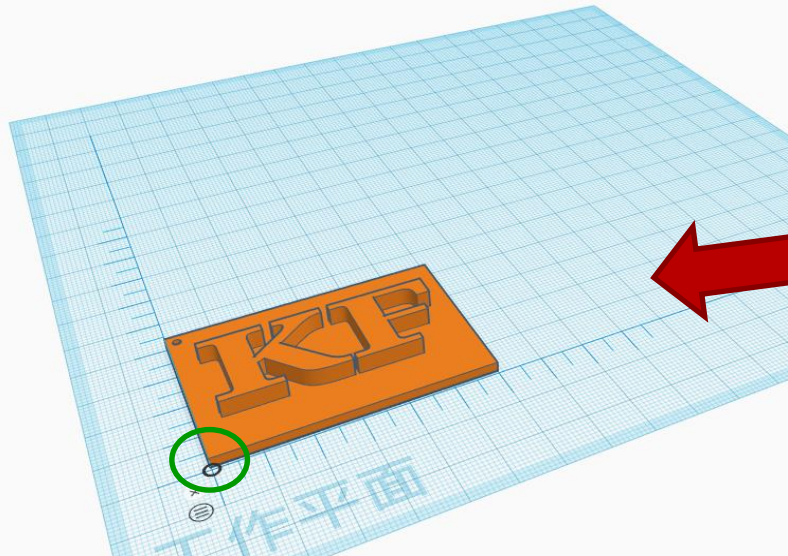
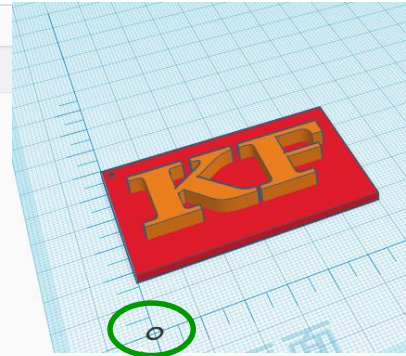


1a01dt

已儲存所有變

### 6) Move + Grouping

- Select tool
- Adjust position
- View



編輯網格

鎖點格線 1.0 m



## Tinkercad

- Practice of using the tools
- Improve the design
- Google classroom( Zoom 1/2/3)





# Design & Technology

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## F.1 Tinkercad

L3-P.1

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## F.1 Tinkercad

L3-P.3



### Method 2 : Design with Download

The screenshot shows the Tinkercad website interface. At the top, the navigation menu includes '圖庫' (Library), '部落格' (Blog), '學習' (Learn), and '教授' (Teach). The search bar contains the text 'batman'. Below the search bar, there are filters for '3D 設計', 'Circuits', and '人物'. A download dialog box is open, showing options to download the model as an STL file or as a 2D SVG file. The 'STL' option is circled in red, and the '複製與編輯' (Copy & Edit) button is also circled in red.

**圖庫 Gallery**

**STL**

**複製與編輯 Copy & Edit**

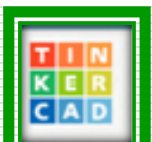
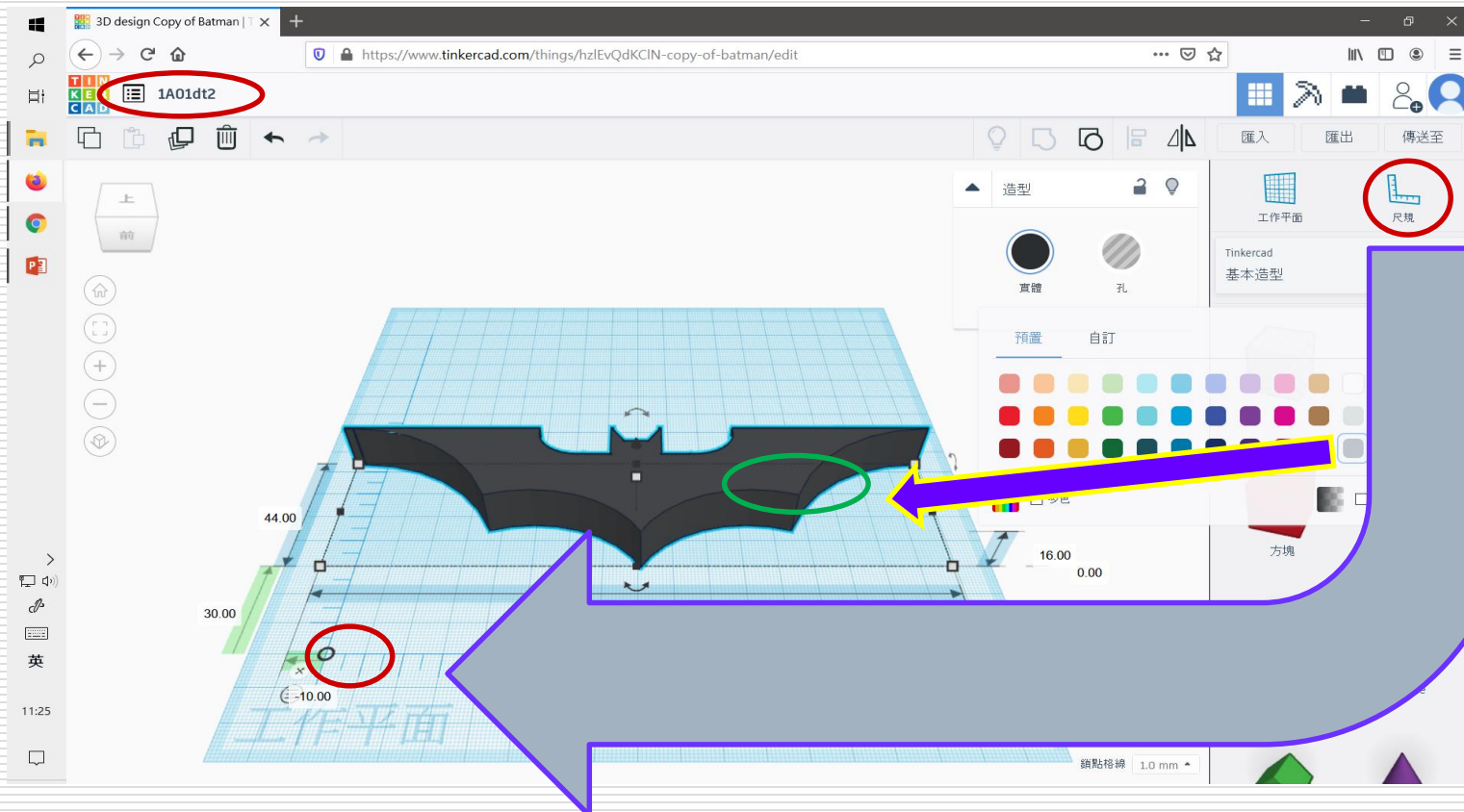
# Design & Technology

2021

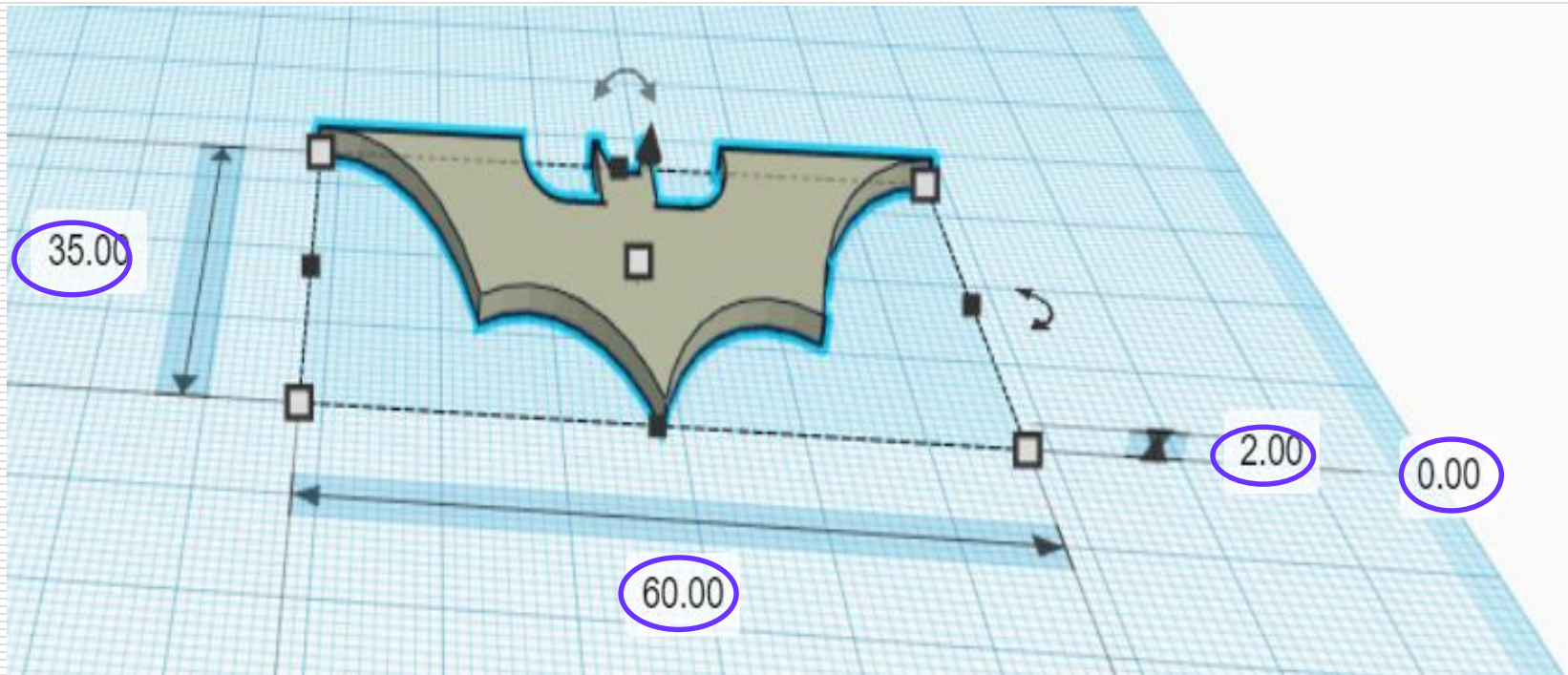
## F.1 Tinkercad

L3-P.4

**File Name, Starting Point, Change color if need**



### Adjust the size





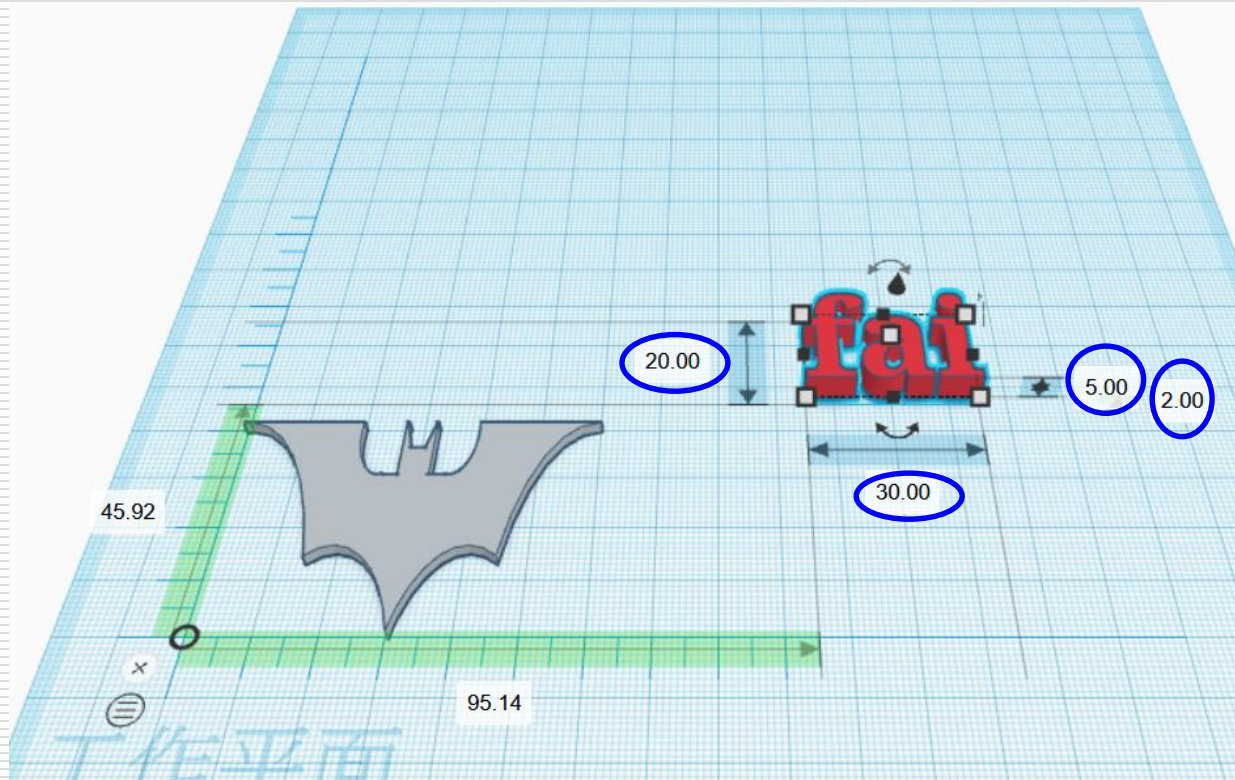
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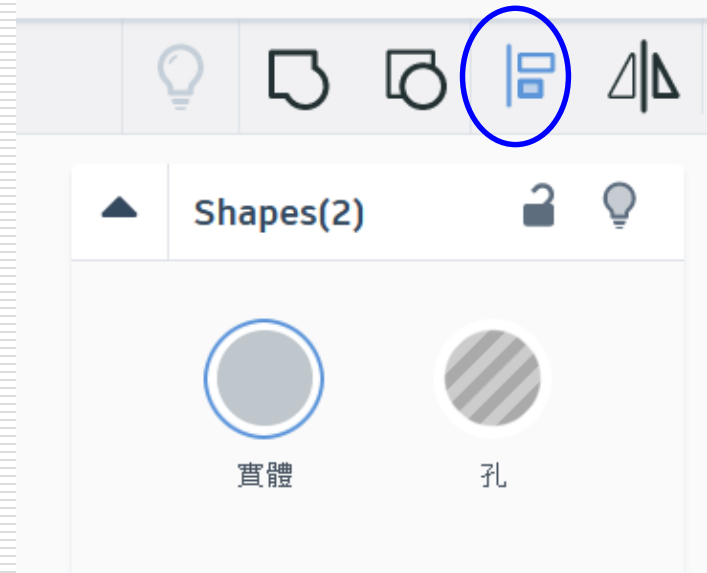
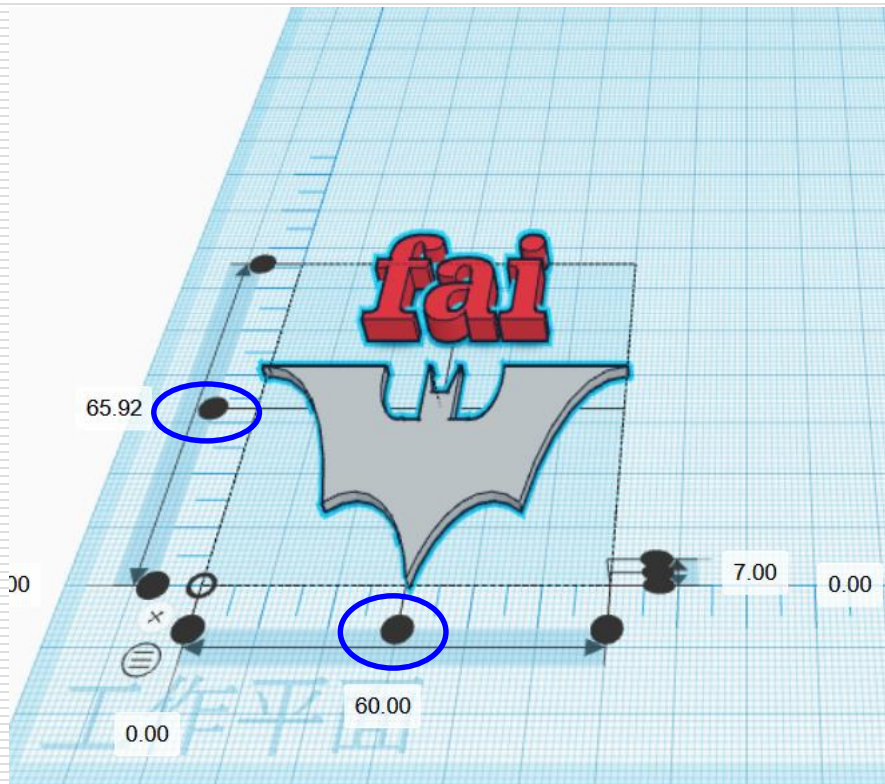
2021

L3-P.8

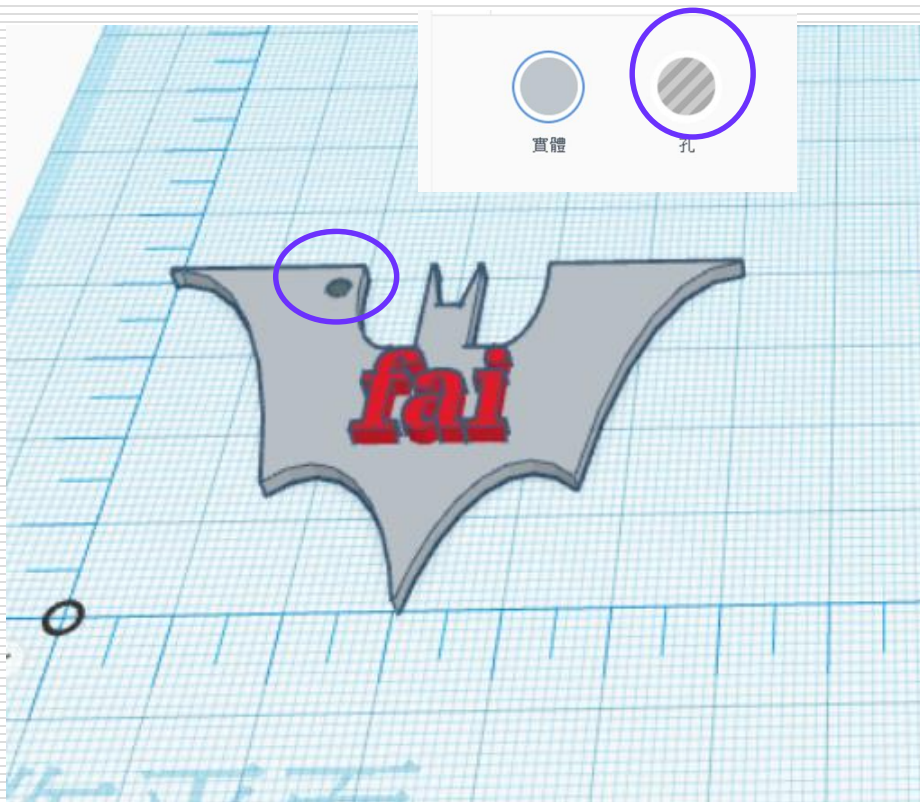
Add the text and adjust the size



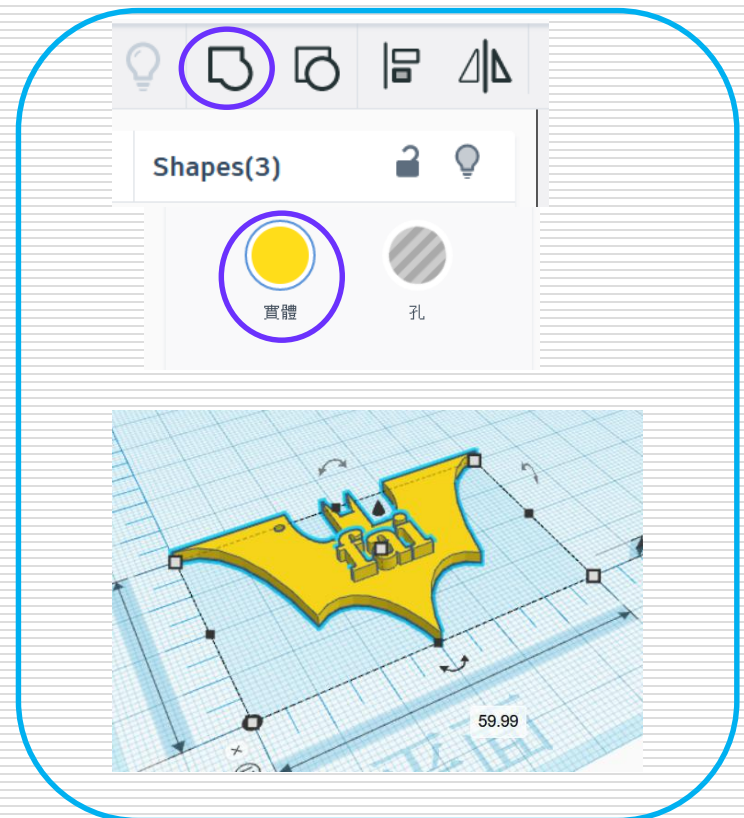
### Alignment 對齊



### Hole for key chain



### Grouping + Select color



## Tinkercad

- Confirm your design (STL)
- Google classroom( Zoom 1/2/3)





# Design & Technology

2021

## F.1 Tinkercad

L4-P.1

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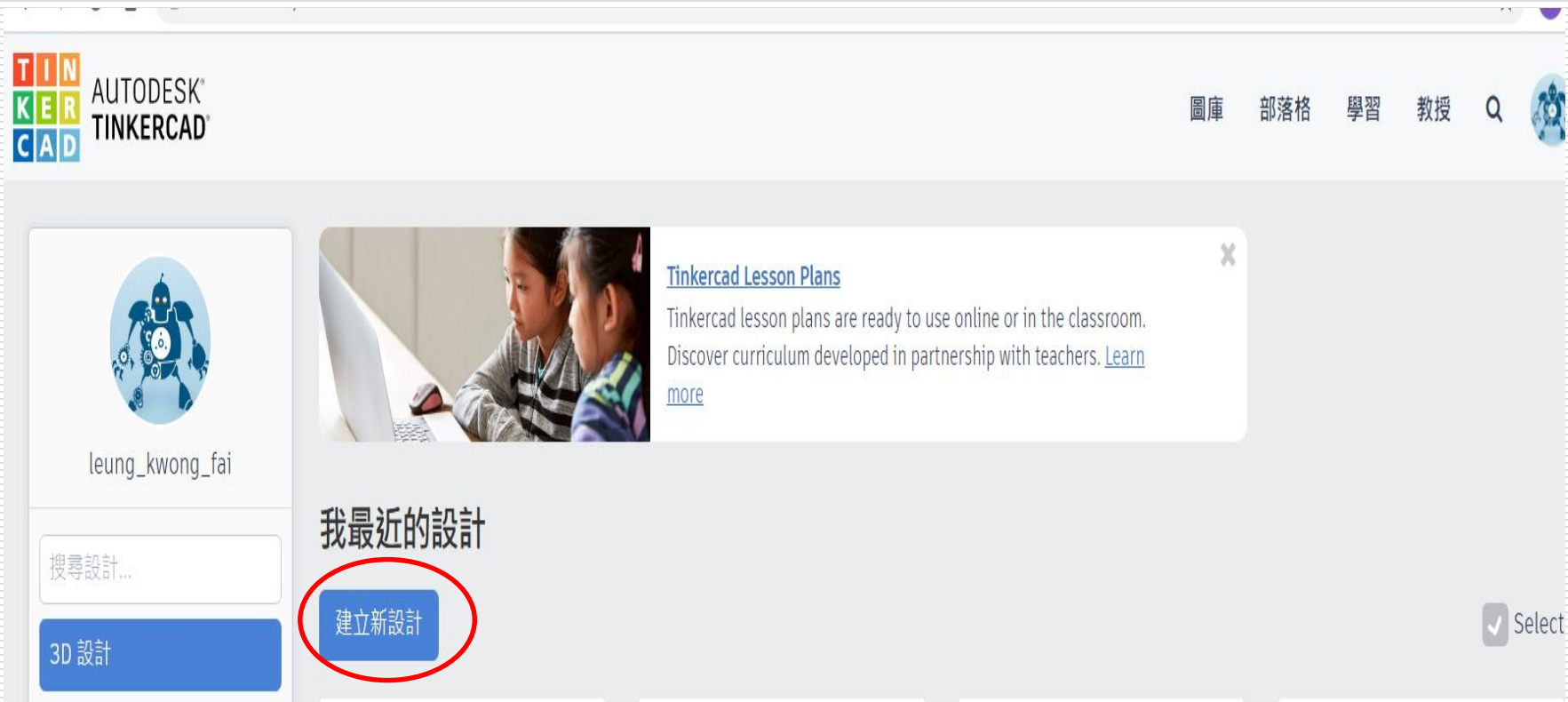


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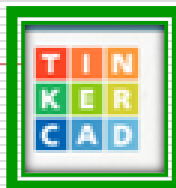
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L4-P.3



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# Design & Technology

## F.1 Tinkercad

2021

Zoom L4-P.8

The screenshot displays the Tinkercad software interface. At the top left, the file name "1A01dt3" is circled in red. The main workspace is a blue grid labeled "工作平面" (Workplane) with a red circle around the origin point. A red box with the text "Design with Basic shapes" and a green arrow points to the "基本造型" (Basic Shapes) palette on the right. In this palette, the "尺規" (Ruler) icon is circled in red. The palette contains icons for "方塊" (Cube), "圓柱" (Cylinder), "圓球" (Sphere), and "Scribble". The Tinkercad logo is visible in the bottom right corner, also enclosed in a green box.

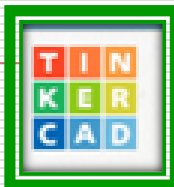
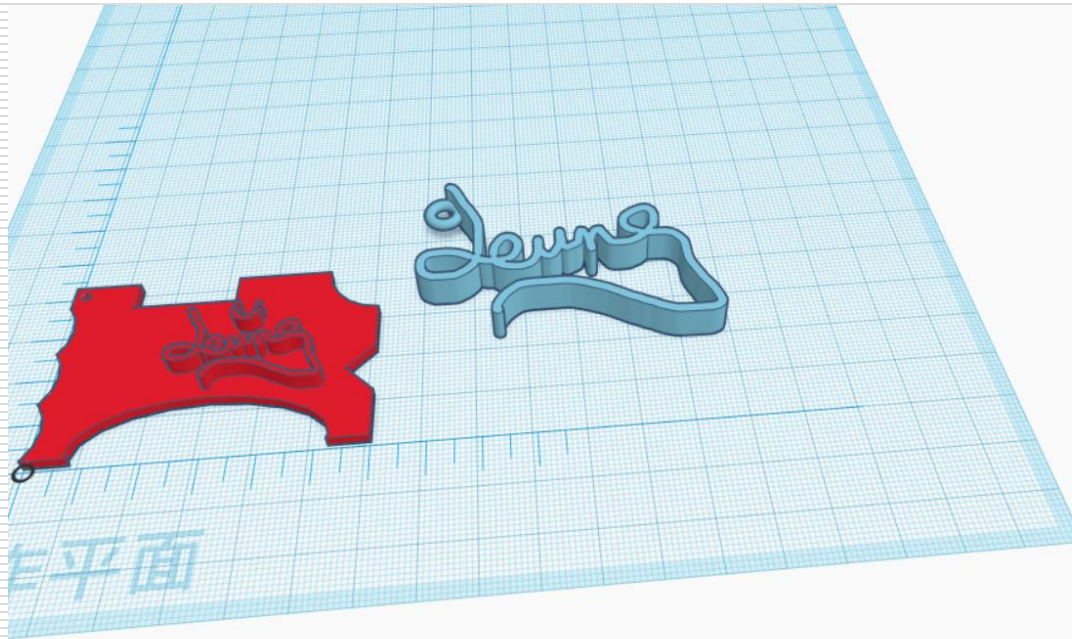
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## F.1 Tinkercad

2021

Zoom L4-P.9

Method 3 :Design with Basic shapes





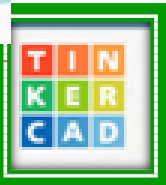
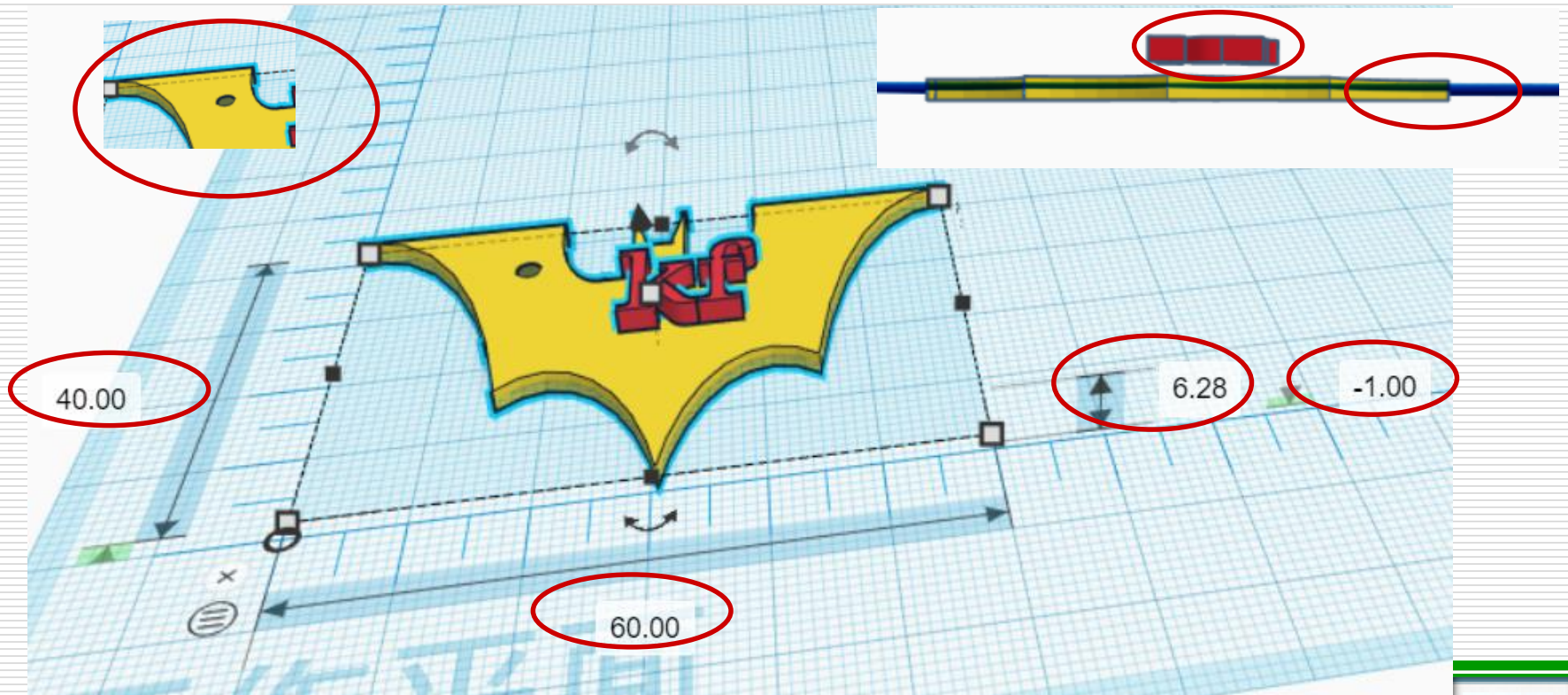
# Design & Technology

2021

## F.1 Tinkercad

Zoom L4-P.9

Check :Size,2m hole, In one piece,position



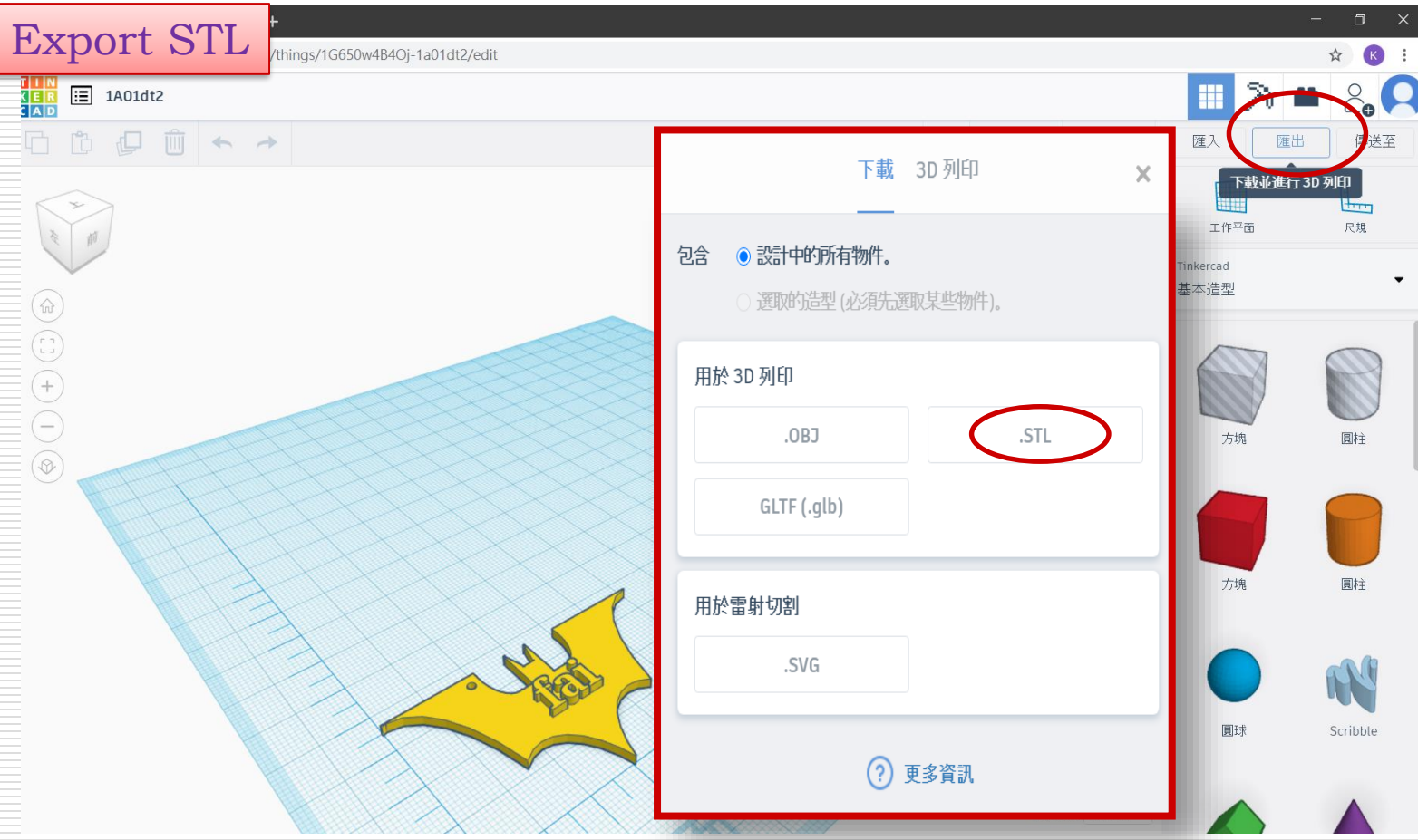
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2021

## F.1 Tinkercad

L4-P.10

### Export STL



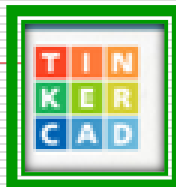
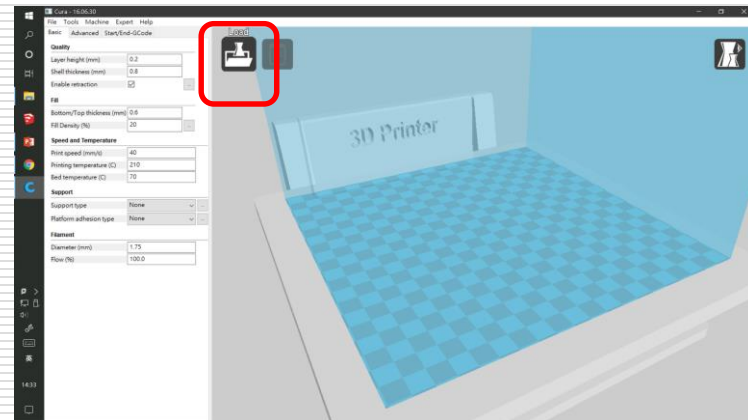
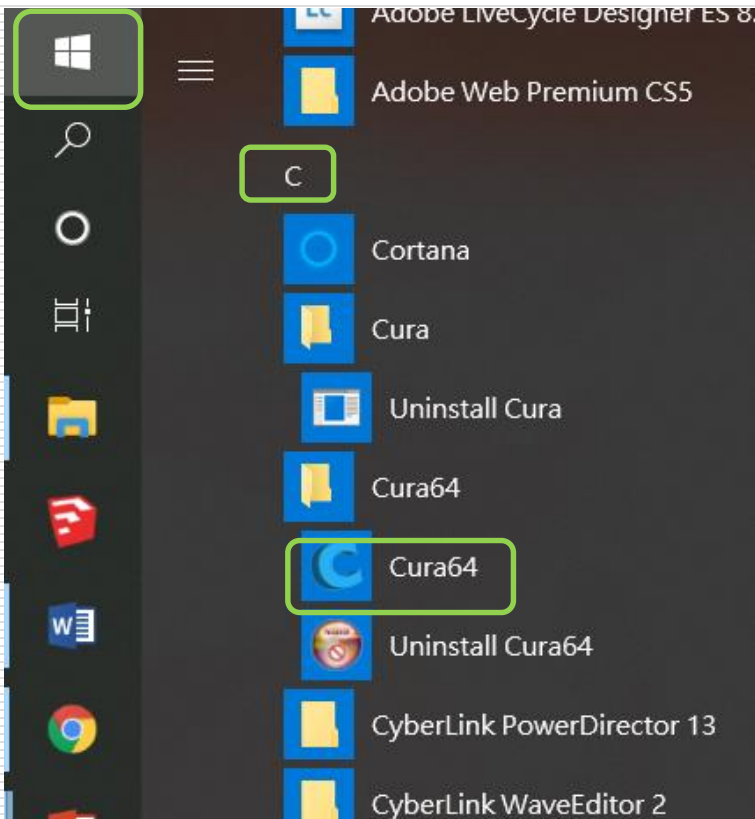
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## F.1 Tinkercad

L4-P.12

Cura



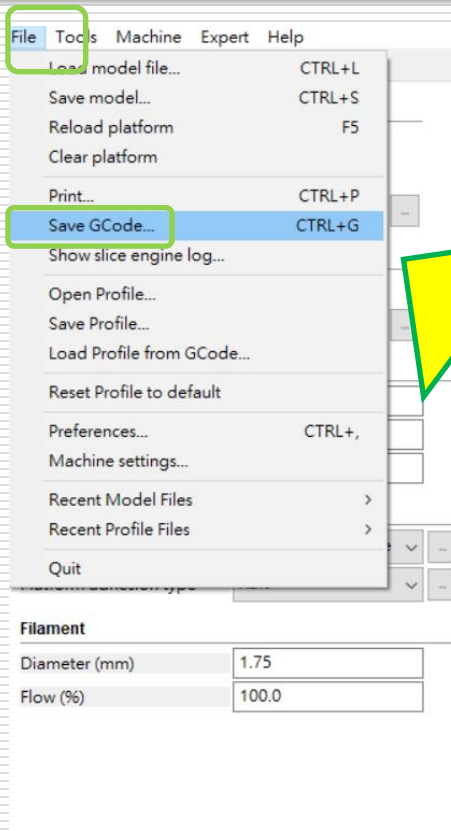
# Design & Technology

2021

## F.1 Tinkercad

L4-P.13

Save G Code to I:\Homework\dt\F1



**Support type**  
**Touching buildplate**

**Platform Adhesion type**  
**Raft**

**File**  
**Save G Code**



Save in

