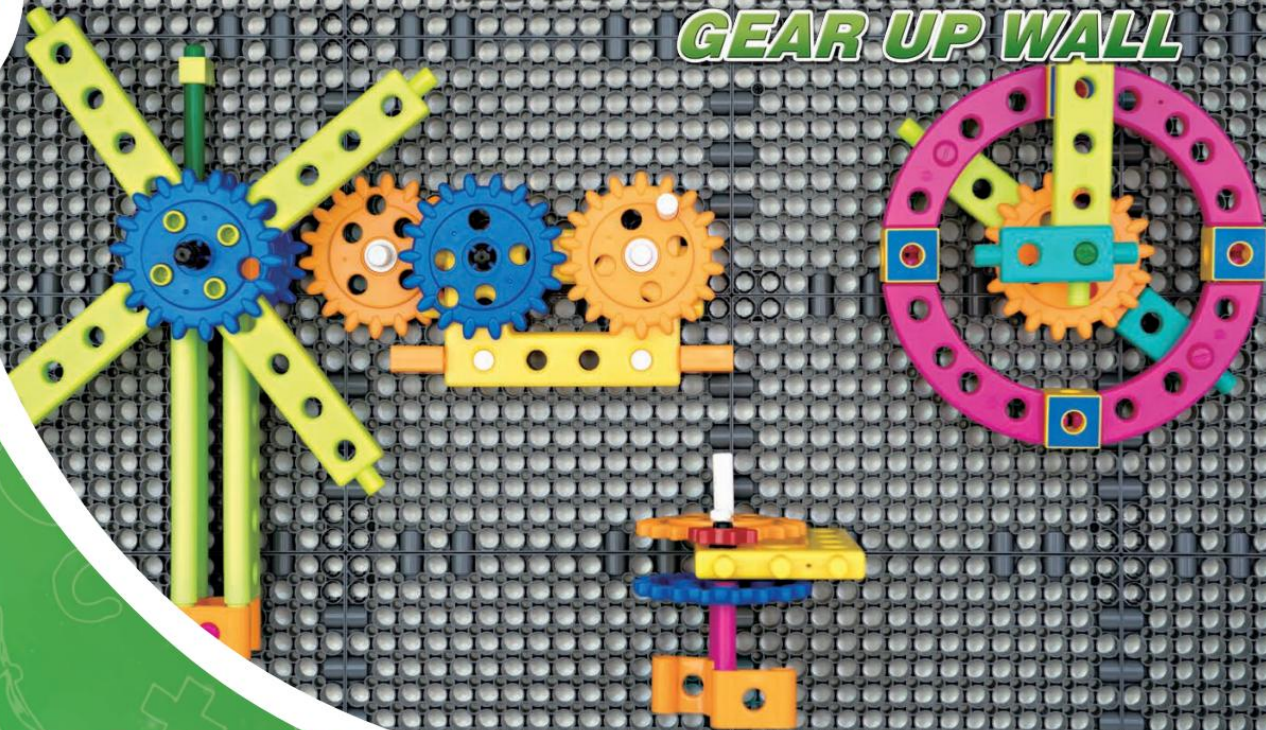




# 創客牆-齒輪積木組

## GEAR UP WALL

TEACHING AID



3+

#1405

203 PCS

做中玩、玩中學

LEARN THROUGH PLAY



30

MODELS  
TO BUILD

## 產品簡介 Product Introduction

智高新創意底盤牆概念，教學上更容易組裝孩子們在底盤牆上使用 3-D 物件進行操作，小朋友可以自由與老師進行教學互動，結合多種遊戲與玩法，讓教學更有趣，並啟發孩子的學習興趣。

智高 STEAM 系列的設計，可以學習英文字母與數學，加上一些人物、動物，可以用一些圖畫故事來做活動，以孩子的生活學習為中心，讓小朋友可以更了解自己的世界，每一單元的遊戲設計，涵蓋其直接學習目的來滿足孩子的學習需求，更間接的發展幼兒各種潛在智慧的可能性，積木牆可以提供有趣的機構遊戲，例如：機關王、齒輪功能等...，皆符合 STEAM 學習目標的遊戲。

Gigo's new Jumbo Grid Wall teaching aids are a tangible, 3-D way to learn STEAM , especially mechanical skills, can be developed through assembly and play with the Wall Gears. Each theme can be played with on the wall and on the floor. Kids can play by themselves or under teacher supervision. Basic concepts like literacy with letters, math with numbers, character development and holidays can be taught through illustrative stories.

### 特色 Features

1. 包含簡單的物理原理及科學應用，透過玩樂來學習有關齒輪的傳動原理。  
Simple physical principles & scientific applications absorbed through play.
2. 主題式創意積木，可激發小朋友創造力及想像力。  
Creative building plans and themes to inspire the imagination.
3. 多樣造型和玩法，組合操作簡易、容易上手！  
Easy to assemble pieces, including gears, transmissions and control systems.
4. 本套組不包含創意大底盤組 #T036R。  
JUMBO BASE GRID #T036R not included.



# 目錄 CONTENTS

## 主題：齒輪工廠

Theme: Gear Factory P.6

- 1 風車 Windmill
- 2 齒輪傳動 Gear System
- 3 攪拌機 Mixer
- 4 時鐘 Clock

## 主題：建築物

Theme: Buildings P.14

- 1 巴黎鐵塔 Eiffel Tower
- 2 熱氣球 Hot Air Balloon
- 3 房子 House
- 4 廟宇 Temple

## 主題：遊樂園

Theme: Amusement Park P.20

- 1 海盜船 Pirate Ship
- 2 雲霄飛車 Roller Coaster
- 3 咖啡杯 Coffee Mug
- 4 旋轉飛機 Rotating Aircraft
- 5 摩天輪 Ferris Wheel

## 主題：夢幻廚房

Theme: Dream Kitchen P.28

- 1 油煙機 Range Hood
- 2 瓦斯爐 Gas Stove
- 3 流理台 Kitchenette
- 4 調味架 Spice Rack
- 5 製麵機 Noodle Maker

## 主題：汽車

Theme: Car P.34

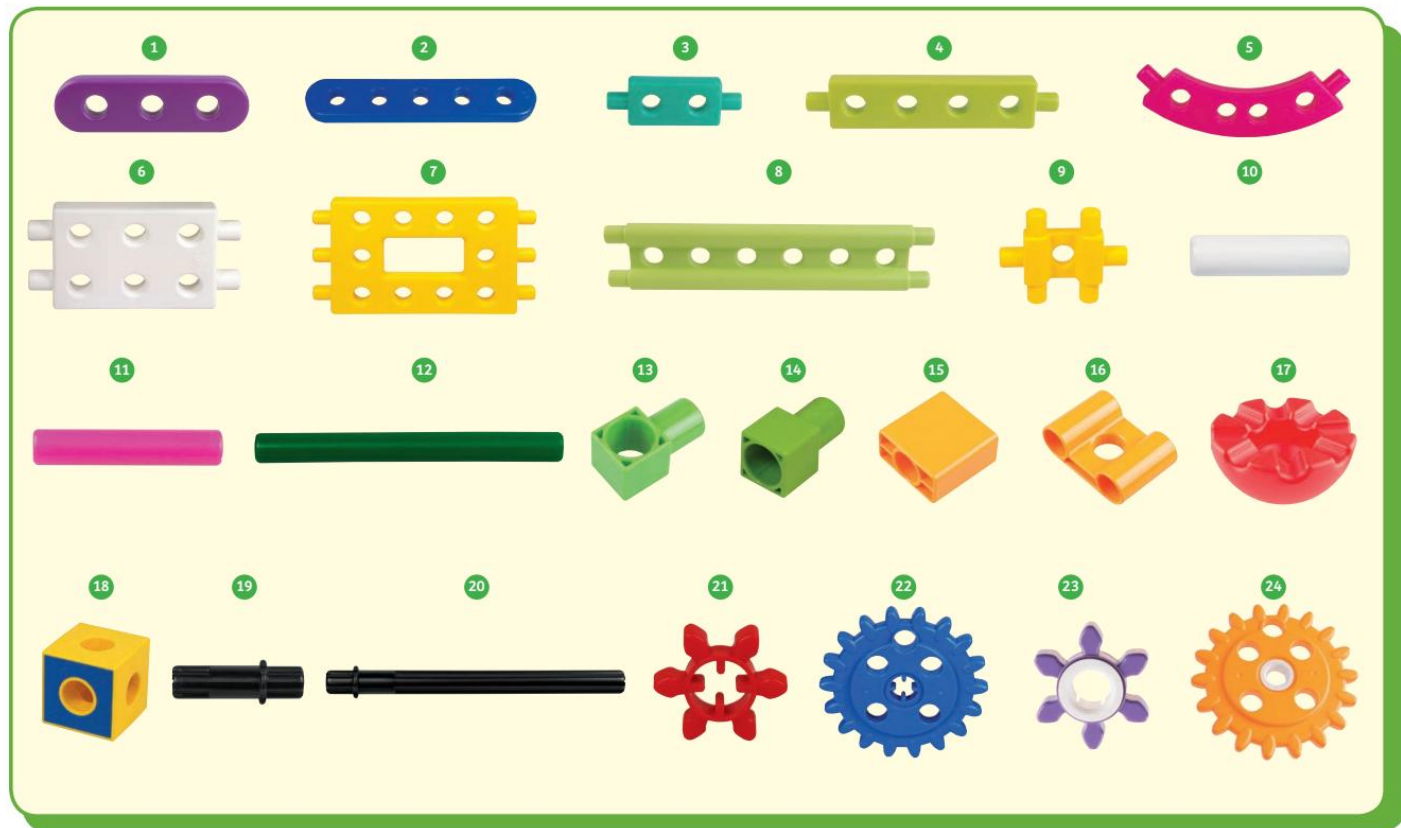
- 1 後視鏡 Wing Mirror
- 2 雨刷 Windshield Wiper
- 3 置物架 Cup Holder
- 4 方向盤 Steering Wheel
- 5 排檔桿 Gear Stick

## 主題：童玩

Theme: Classic Toys P.40

- 1 電風扇 Fan
- 2 寶劍 Sword
- 3 陀螺 Spinning Top
- 4 抽繩陀螺 Rope-Pull Spinning Top
- 5 釣竿 Fishing Rod
- 6 橡皮筋槍 Rubber Band Gun
- 7 標靶 Target

# 零件清單 Parts List



## 零件清單 Parts List :

序號 No.	品號 Item No.	零件名稱	Description	數量 Qty.	序號 No.	品號 Item No.	零件名稱	Description	數量 Qty.
1	7330-W11-E1P1	A-3 孔圓長條	A-3 HOLE ROUND ROD	6	13	7331-W10-M1G	A-90 度結合器	A-LATERAL PEG	15
2	7330-W11-D1B	A-5 孔圓長條	A-5 HOLE ROUND ROD	6	14	7331-W10-D1G	A- 直線結合器	A-FRONT PEG	5
3	7330-W11-H1G	A-2 孔長條	A-2 HOLE ROD	6	15	7331-W10-E1O1	A- 單孔結合器	A-ROD CONNECTOR	10
4	7330-W11-I1G	A-4 孔長條	A-4 HOLE ROD	8	16	7331-W10-A1O1	A- 軌道結合器	A-TRACK CONNECTOR	10
5	7330-W11-J1P	A-4 孔 1/4 弧長條	A-4 HOLE BENDED ROD	8	17	8060-W11-E1R	A- 半球球體	A-HEMISPHERE	4
6	7330-W11-C1W	A-2×3 孔長方框	A-2X3 HOLE BASE	8	18	8036-W85-V1Y	A- 正方顆粒	A-CUBE	6
7	8060-W11-F1Y	A-3×4 孔長方框	A-3X4 FRAME	6	19	8060-W11-G1D	A-60mm III 軸	A-60mm AXLE III	8
8	7330-W11-K1G	A-6 孔直線軌道	A-6 HOLE TRACK	6	20	8060-W11-H1D	A-180mm III 軸	A-180mm AXLE III	8
9	7330-W11-O1Y	A- 單孔固定軌道	A-1 HOLE TRACK	6	21	7331-W10-L2R	A-6T 齒輪	A-6T GEAR	8
10	7330-W11-X1W	A-60mm 圓棒	A-60mm CONNECTOR	20	22	8060-W10-A2B	A-18T 齒輪	A-18T GEAR	8
11	7330-W11-A1PK	A-80mm 圓棒	A-80mm CONNECTOR	20	23	7331-W85-L1P	A-6T 自轉齒輪	A-6T GEAR WITH ADAPTER	8
12	7330-W11-B1G	A-160mm 圓棒	A-160mm CONNECTOR	5	24	8060-W85-A1O	A-18T 自轉齒輪	A-18T GEAR WITH ADAPTER	8

## 組裝技巧 TIPS AND TRICKS



自轉齒輪  
GEARS WITH ADAPTER



傳動齒輪  
GEARS

齒輪分為傳動齒輪與自轉齒輪，傳動齒輪需搭配傳動軸做使用；自轉齒輪需搭配圓棒，選擇想要使用的齒輪即可。

The gears are divided into gears and gears with an adapter. The gears need to be connected to the axle, and the gears with an adapter need to be used with a connector.

Please select the gear type you need carefully and be sure to select the correct component that accompanies it.

更多小技巧，請參考  
For more assembly  
tips, please refer to



# 1

## 主題模型 Theme Model

1  
風車  
Windmill



3  
攪拌機  
Mixer



2  
齒輪傳動  
Gear System



4  
時鐘  
Clock

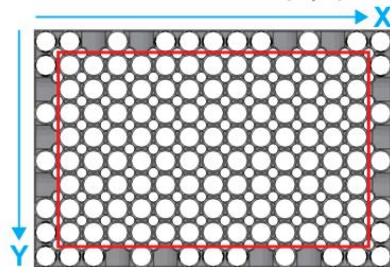


$a =$  大底座編號  
JUMBO BASE GRID Coordinate

1	2	3	4
5	6	7	8
9	10	11	12

請由紅框內的孔位開始計算位置  
Count hole spaces carefully, starting from the upper left hand corner of the red rectangle.

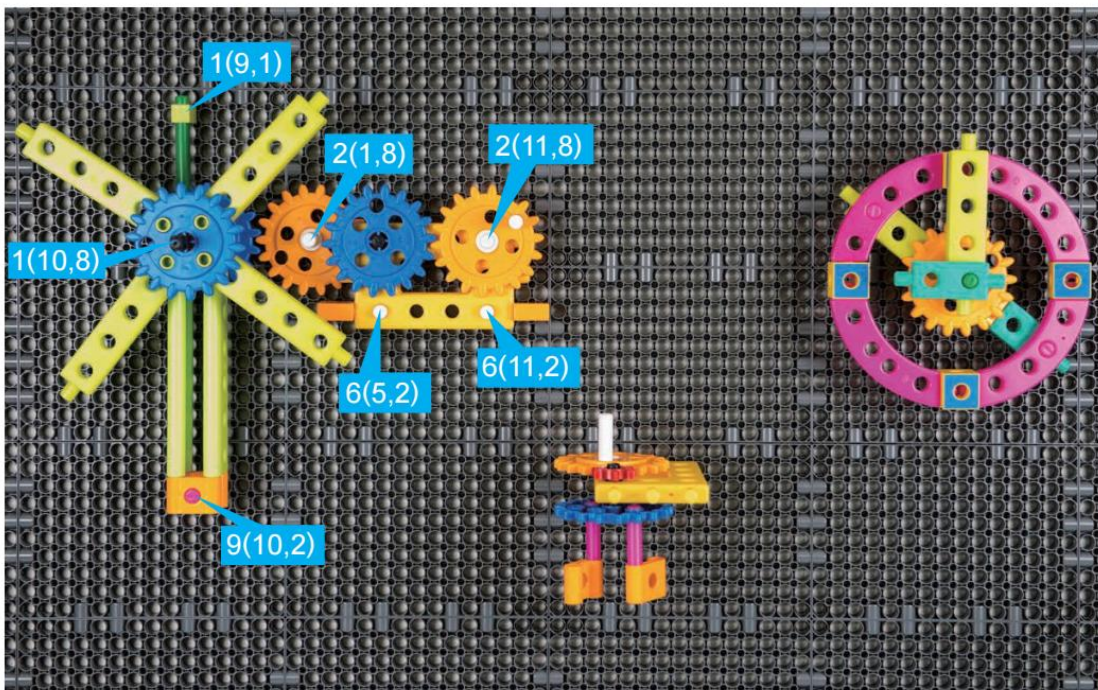
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# 1

## 主題製作：齒輪工廠 Theme: Gear Factory



座標僅供參考，依實際組裝為主。

The coordinates given are only an approximation. We encourage you to find your own solution.



模型操作影片

Model Operation Video

# 1

## 主題製作：齒輪工廠 Theme: Gear Factory

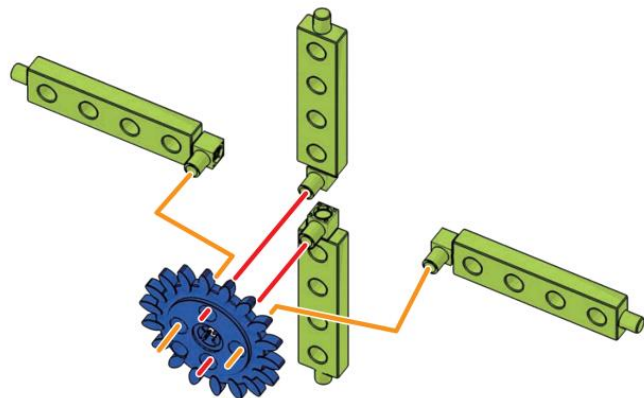
### 風車 Windmill





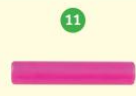






1 x2



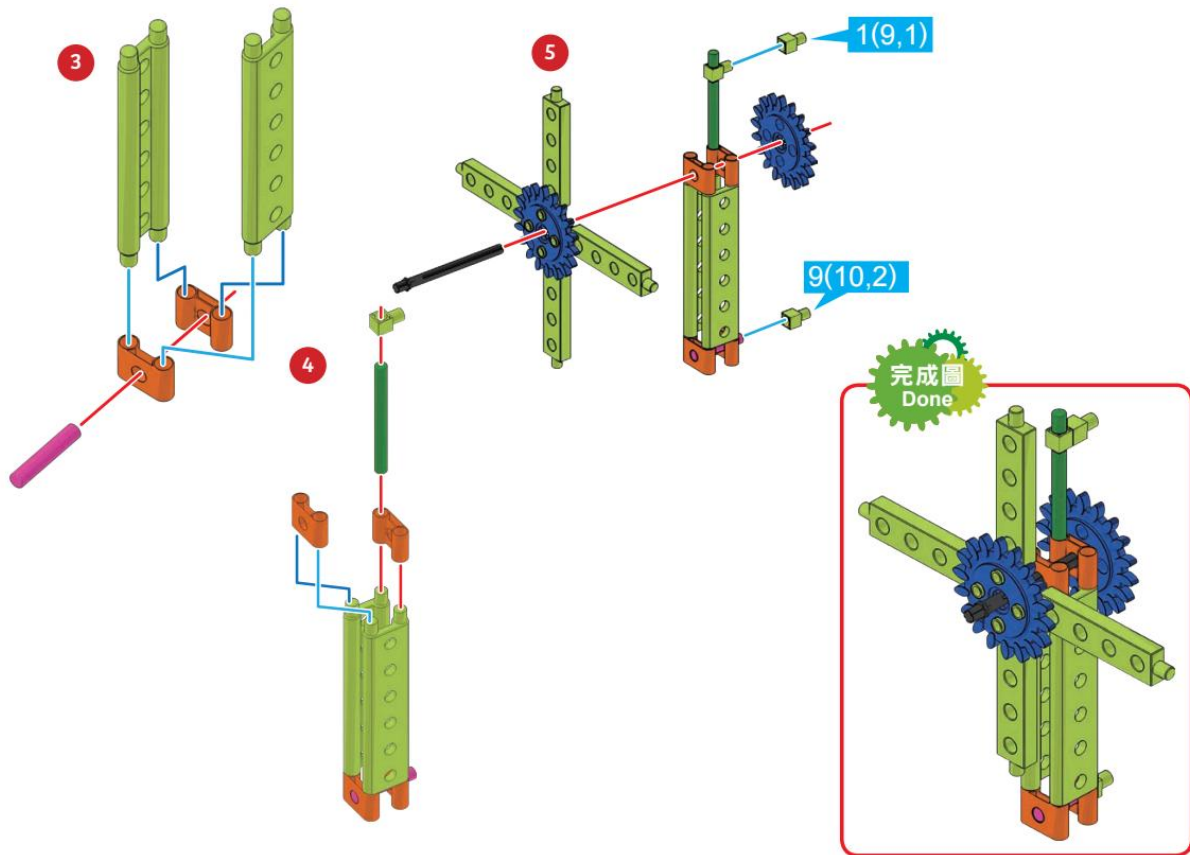
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#### 零件清單 Parts List

			
x4	x2	x1	x1
			
x5	x2	x4	x1
			
			x2





# 1

## 主題製作：齒輪工廠 Theme: Gear Factory

### 齒輪傳動 Gear System



#### 零件清單 Parts List



x1



x5



x2



x1



x1

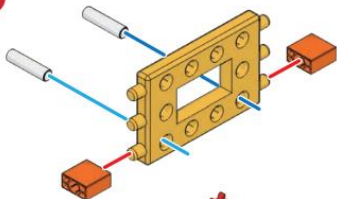


x1

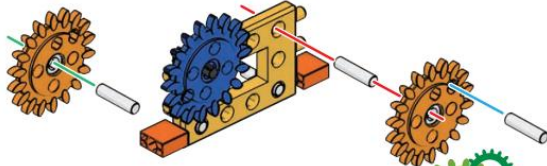


x2

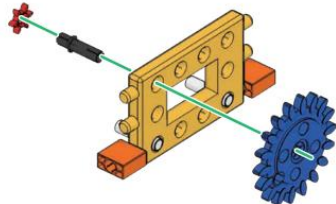
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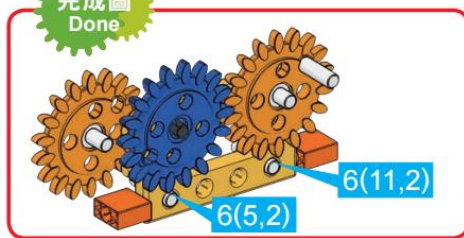
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2



完成圖  
Done

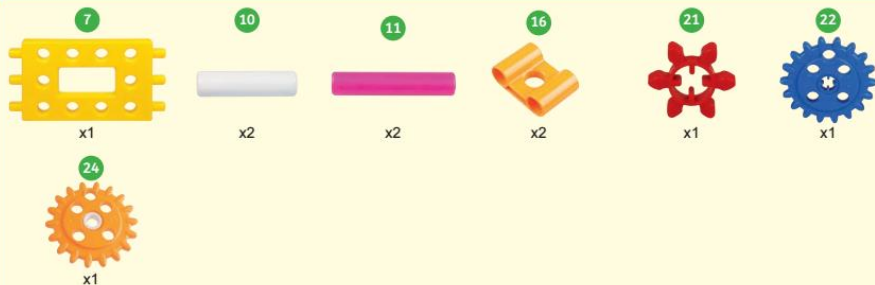


# 攪拌機

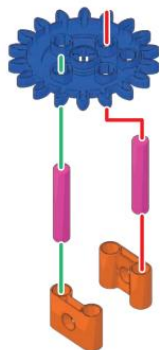
## Mixer



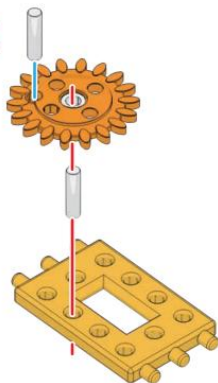
### 零件清單 Parts List



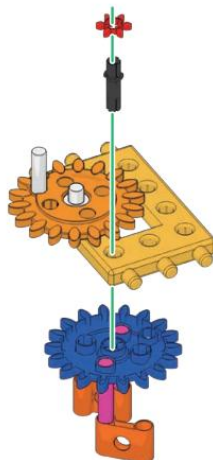
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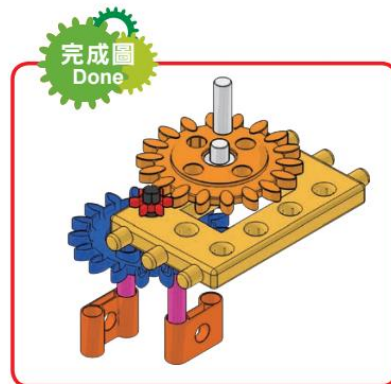
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3



完成圖  
Done





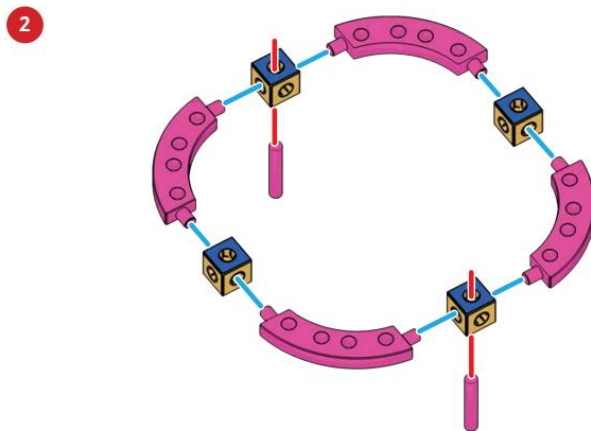
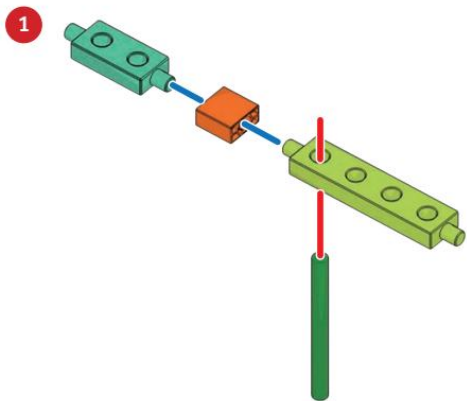
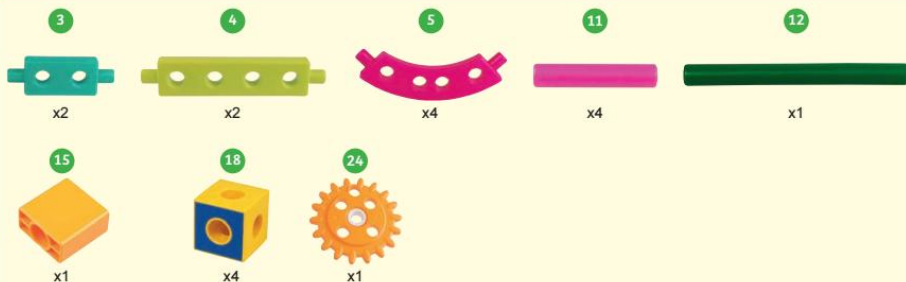
# 1

## 主題製作：齒輪工廠 Theme: Gear Factory

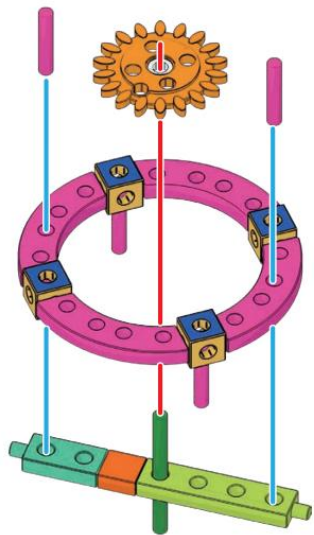
### 時鐘 Clock



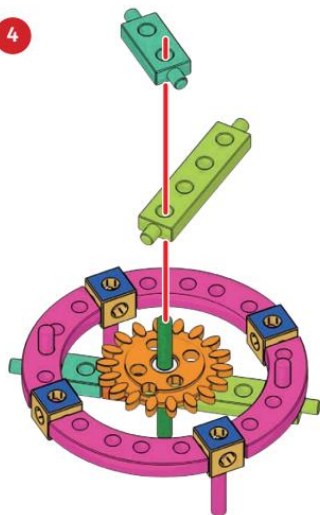
#### 零件清單 Parts List



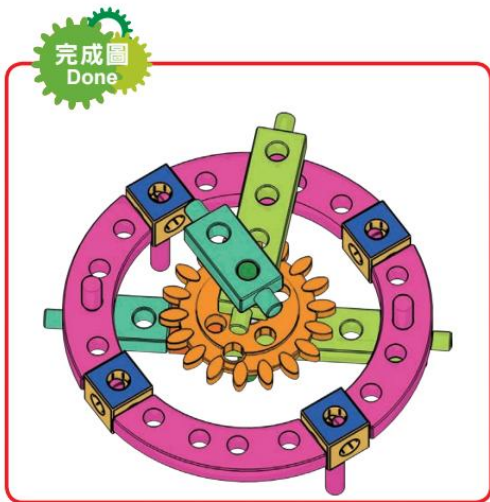
3



4



完成圖  
Done



# 2

## 主題模型 Theme Model

1  
巴黎鐵塔  
Eiffel Tower



2  
熱氣球  
Hot Air Balloon



3  
房子  
House



4  
廟宇  
Temple

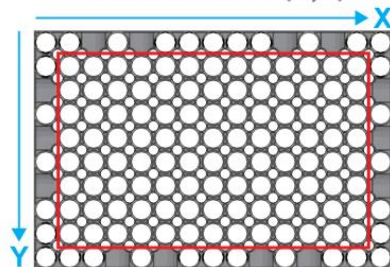


$a =$  大底座編號  
JUMBO BASE GRID Coordinate

1	2	3	4
5	6	7	8
9	10	11	12

請由紅框內的孔位開始計算位置  
Count hole spaces carefully, starting from the upper left hand corner of the red rectangle.

座標 Coordinate :  $a=(X,Y)$

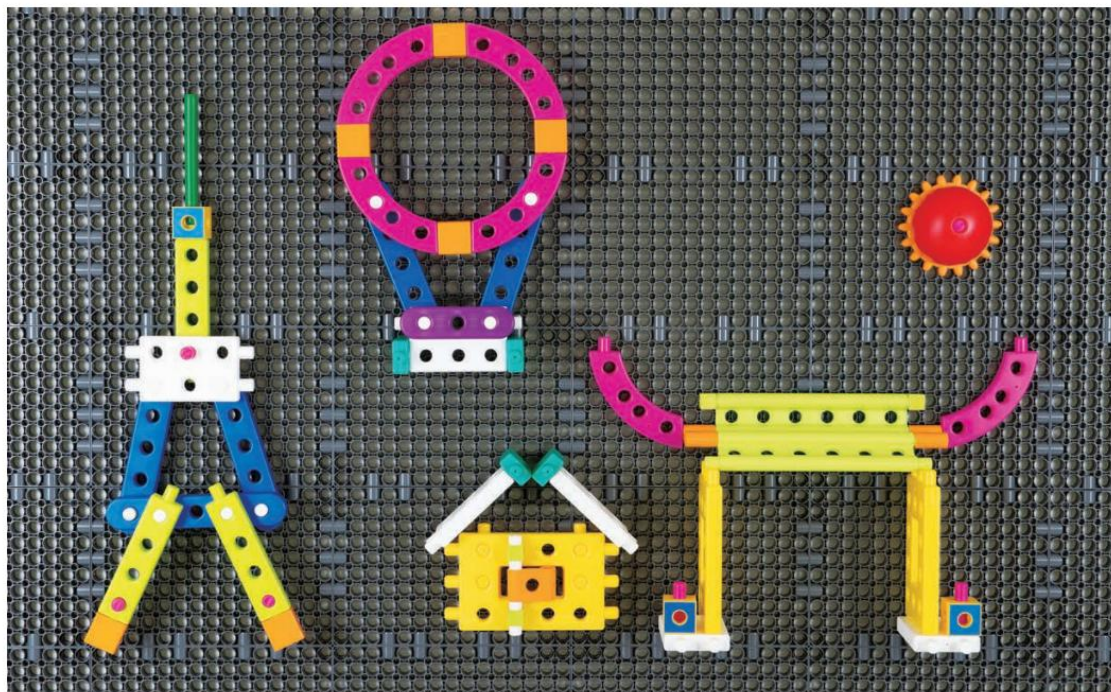




# 2

## 主題製作：建築物

Theme : Buildings



試試看，用積木拼出你喜歡的作品吧！  
Give it a try. Make your own work!



模型操作影片

Model Operation Video

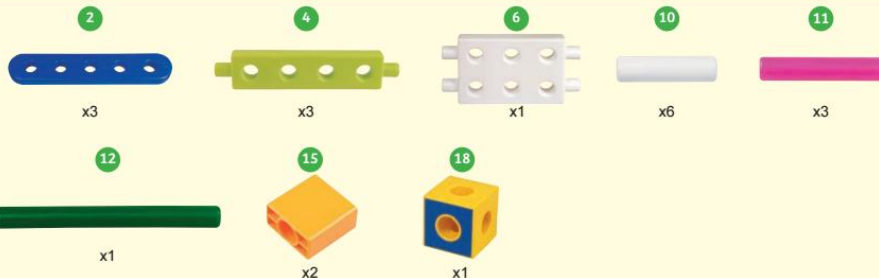
# 2

## 主題製作：建築物 Theme: Buildings

### 巴黎鐵塔 Eiffel Tower



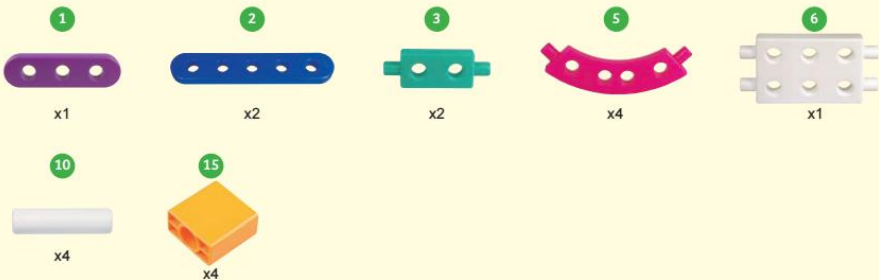
#### 零件清單 Parts List



### 熱氣球 Hot Air Balloon

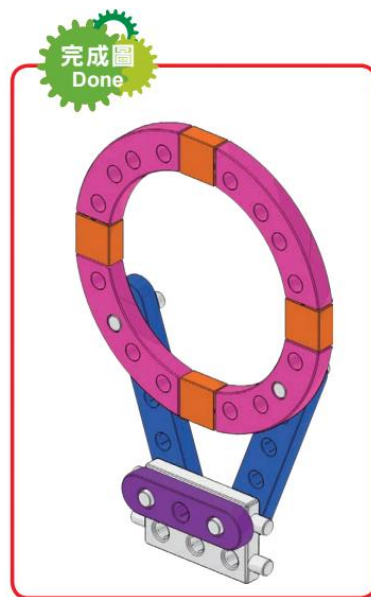
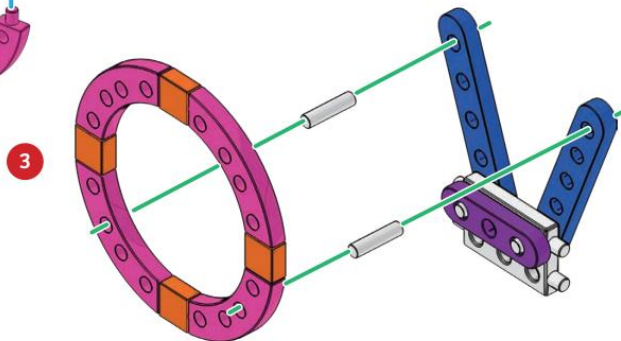
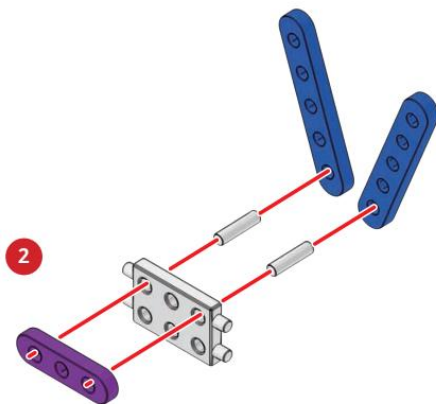
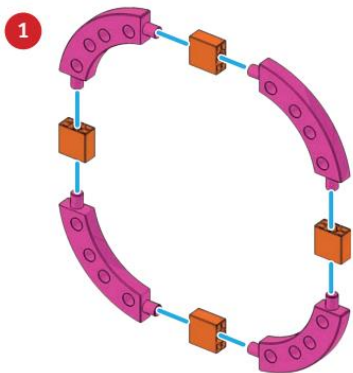


#### 零件清單 Parts List



# 熱氣球

## Hot Air Balloon

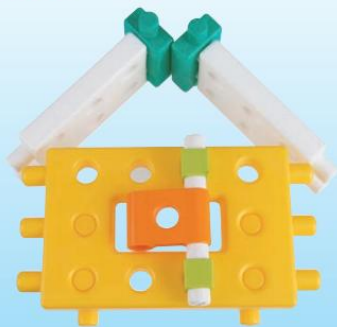




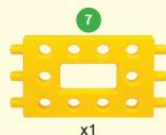
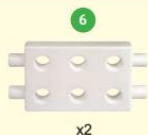
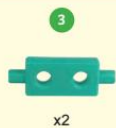
# 2

## 主題製作：建築物 Theme: Buildings

### 房子 House

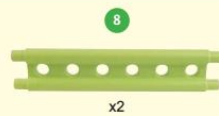
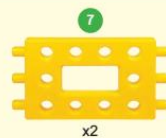
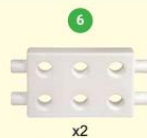
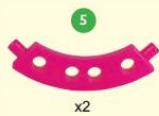


#### 零件清單 Parts List



# 廟宇 Temple

## 零件清單 Parts List



# 3

## 主題模型 Theme Model

1  
海盜船  
Pirate Ship



2  
雲霄飛車  
Roller Coaster



3  
咖啡杯  
Coffee Mug



4  
旋轉飛機  
Rotating Aircraft



5  
摩天輪  
Ferris Wheel

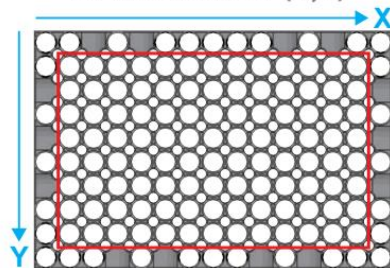


$a =$  大底盤編號  
JUMBO BASE GRID Coordinate

1	2	3	4
5	6	7	8
9	10	11	12

請由紅框內的孔位開始計算位置  
Count hole spaces carefully, starting from the upper left hand corner of the red rectangle.

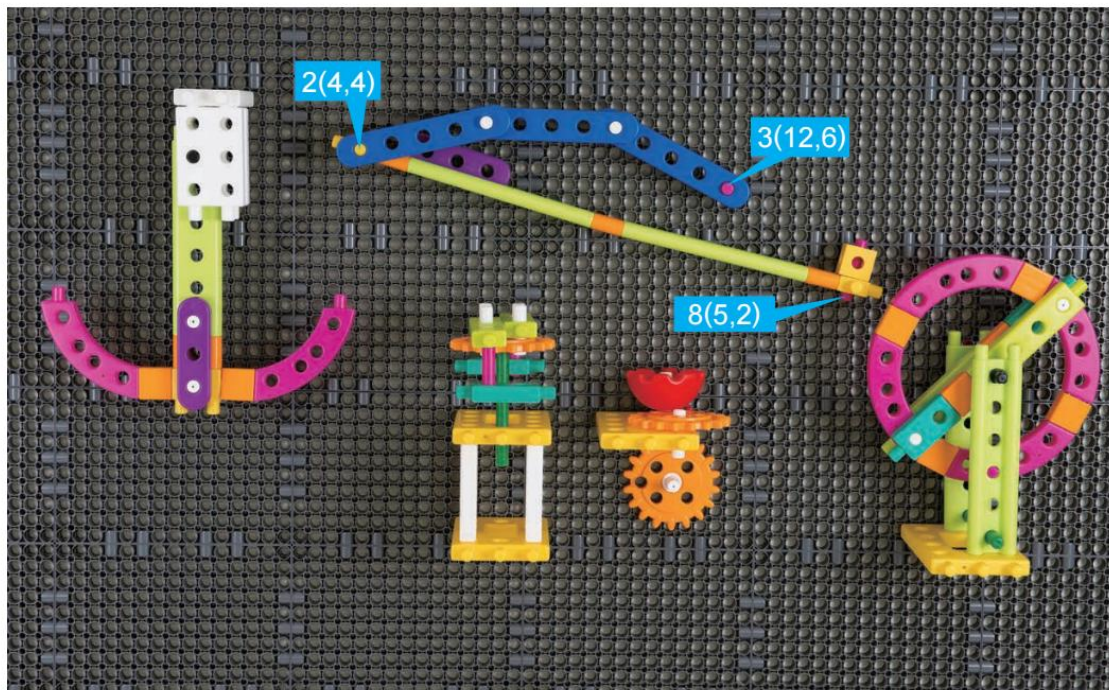
座標 Coordinate :  $a=(X,Y)$





# 3

## 主題製作：遊樂園 Theme: Amusement Park



座標僅供參考，依實際組裝為主。

The coordinates given are only an approximation. We encourage you to find your own solution.



模型操作影片

Model Operation Video

# 3

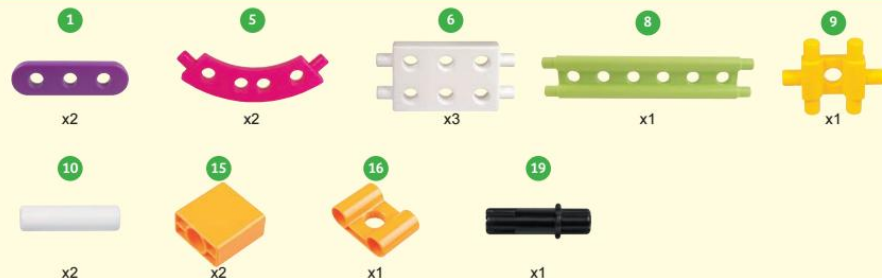
## 主題製作：遊樂園 Theme: Amusement Park

### 海盜船

#### Pirate Ship



#### 零件清單 Parts List

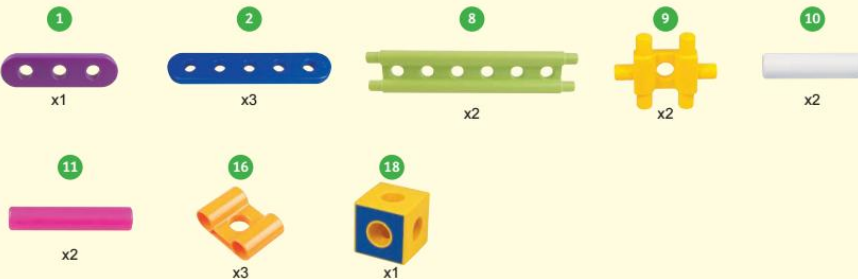


### 雲霄飛車

#### Roller Coaster

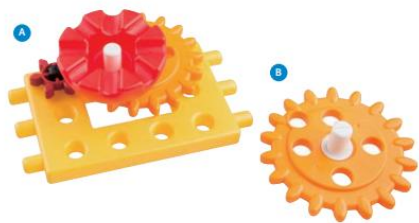


#### 零件清單 Parts List

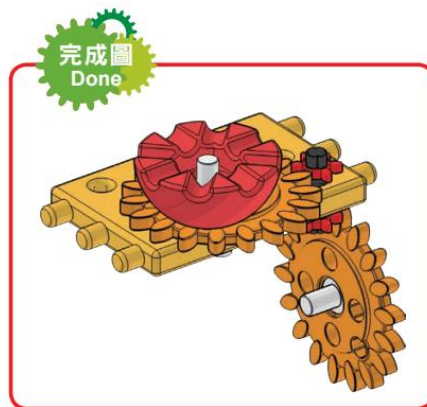
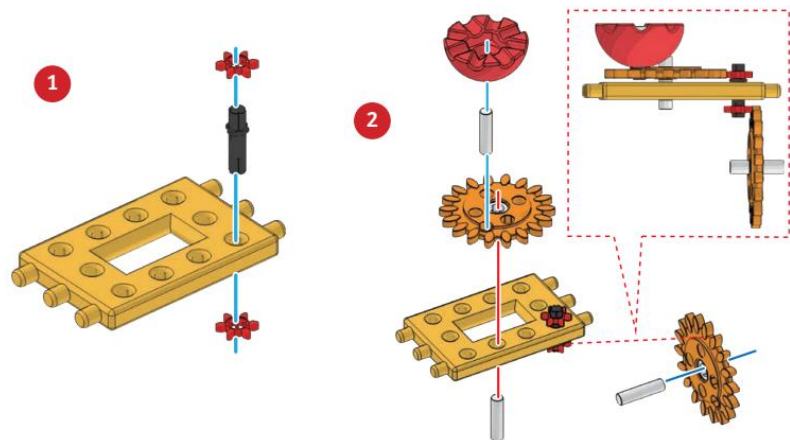
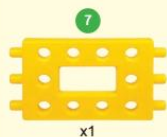


# 咖啡杯

## Coffee Mug



### 零件清單 Parts List





# 3

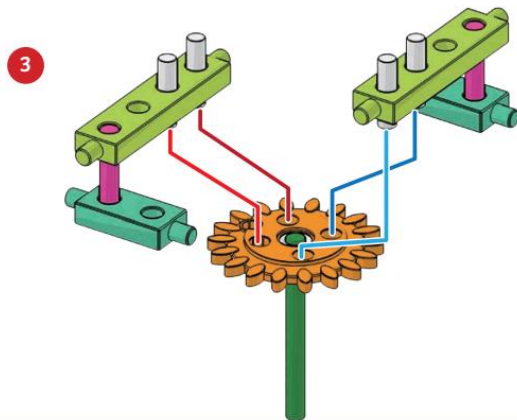
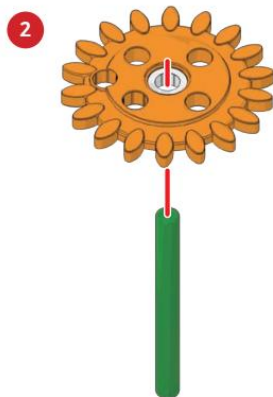
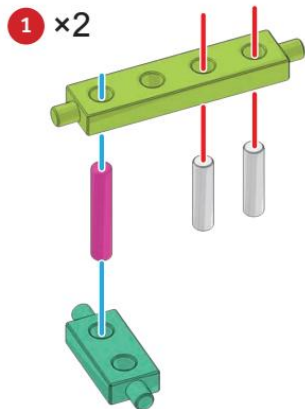
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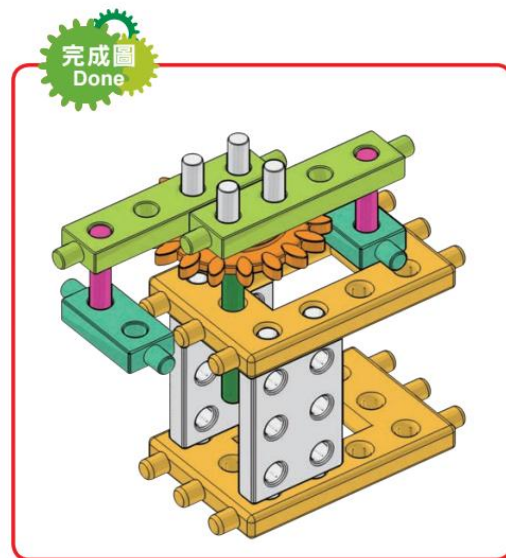
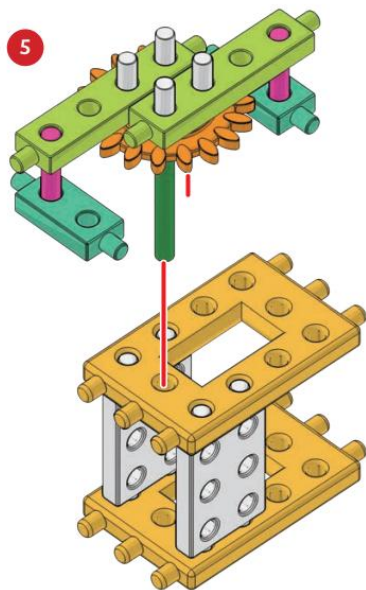
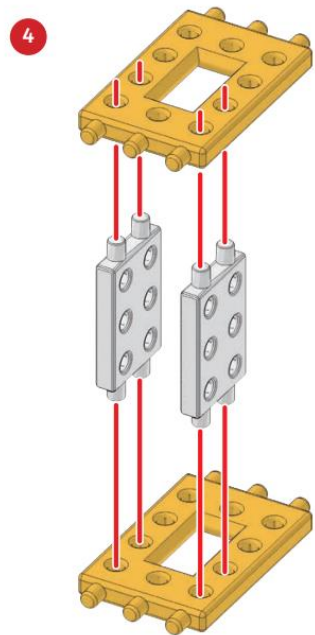
### 旋轉飛機 Rotating Aircraft



#### 零件清單 Parts List

x2	x2	x2	x2	x4
x2	x1	x1		





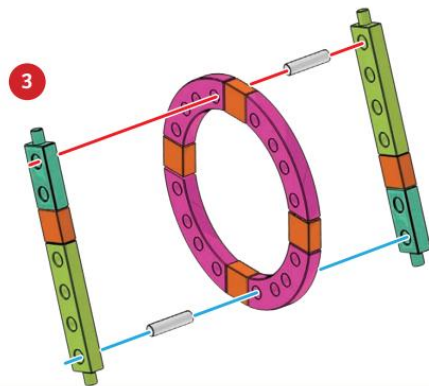
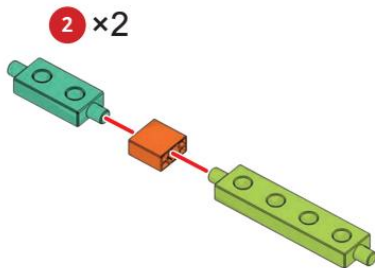
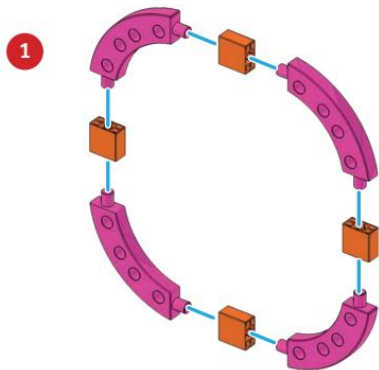
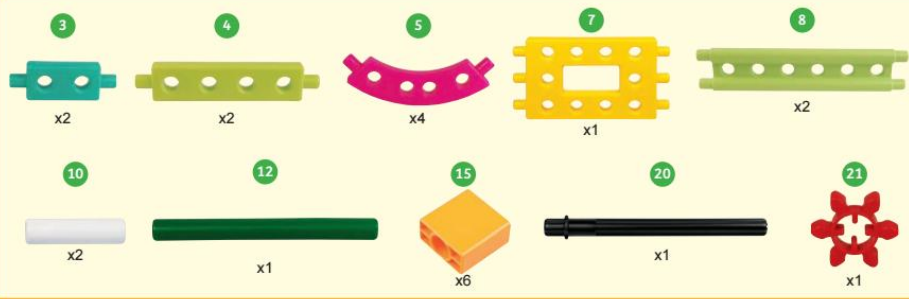
# 3

## 主題製作：遊樂園 Theme: Amusement Park

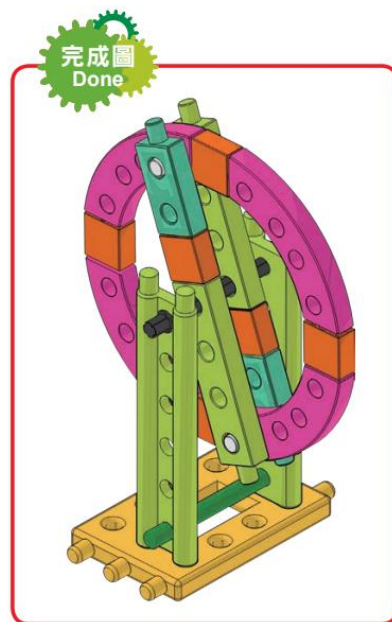
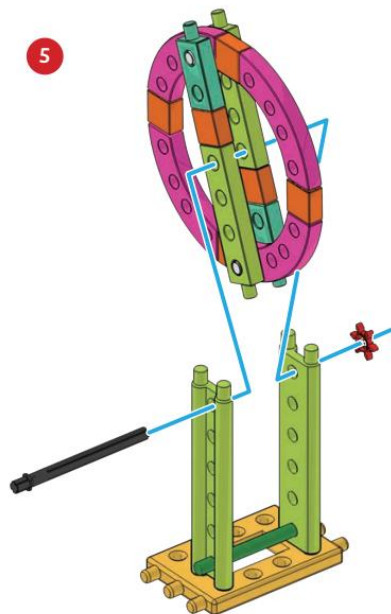
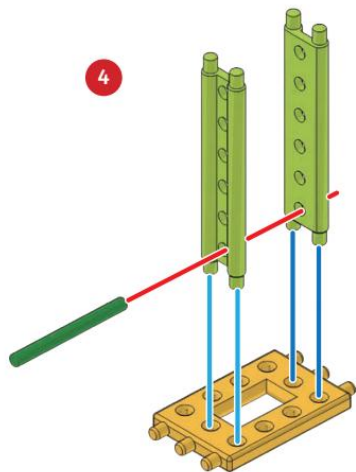
### 摩天輪 Ferris Wheel



#### 零件清單 Parts List







# 4

## 主題模型 Theme Model

1  
油煙機  
Range Hood



2  
瓦斯爐  
Gas Stove



3  
流理台  
Kitchenette



4  
調味架  
Spice Rack



5  
製麵機  
Noodle Maker

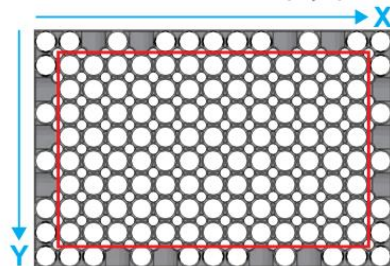


$a =$  大底盤編號  
JUMBO BASE GRID Coordinate

1	2	3	4
5	6	7	8
9	10	11	12

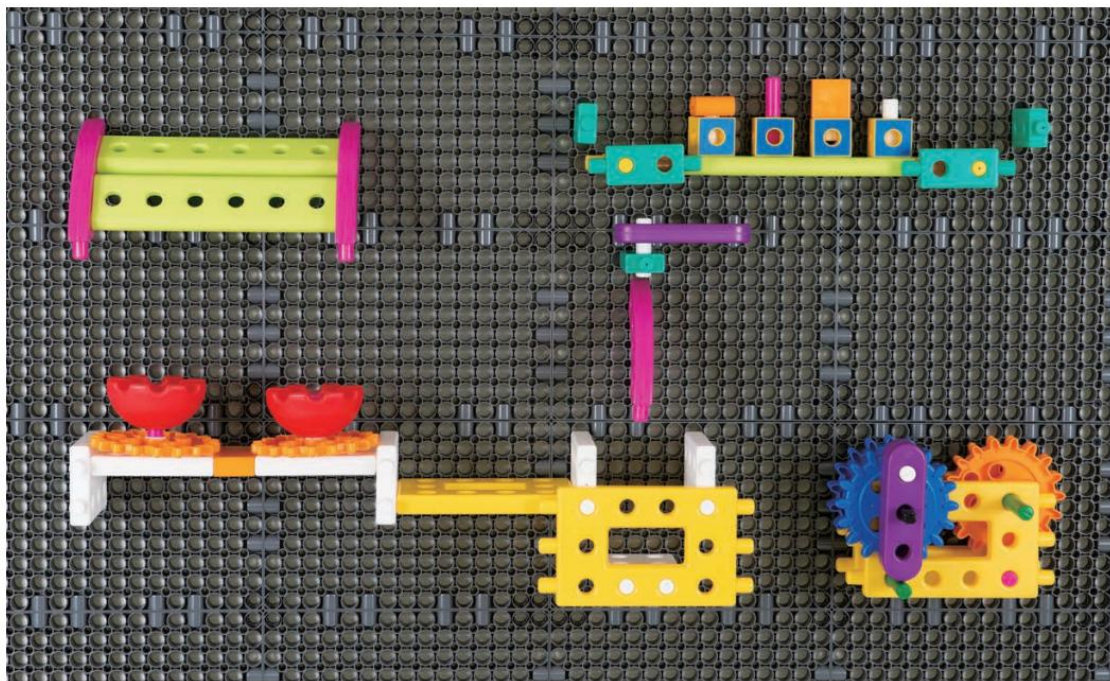
請由紅框內的孔位開始計算位置  
Count hole spaces carefully, starting from the upper left hand corner of the red rectangle.

座標 Coordinate :  $a=(X,Y)$



# 4

## 主題製作：夢幻廚房 Theme: Dream Kitchen



模型操作影片

Model Operation Video

試試看，用積木拼出你喜歡的作品吧！  
Give it a try. Make your own work!

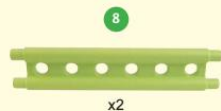
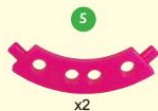


## 油煙機

### Range Hood

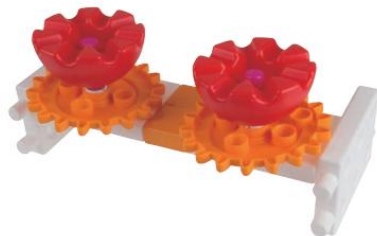


#### 零件清單 Parts List

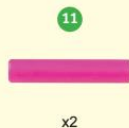
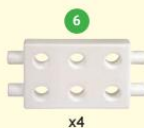


## 瓦斯爐

### Gas Stove

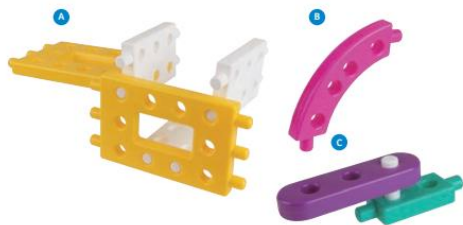


#### 零件清單 Parts List

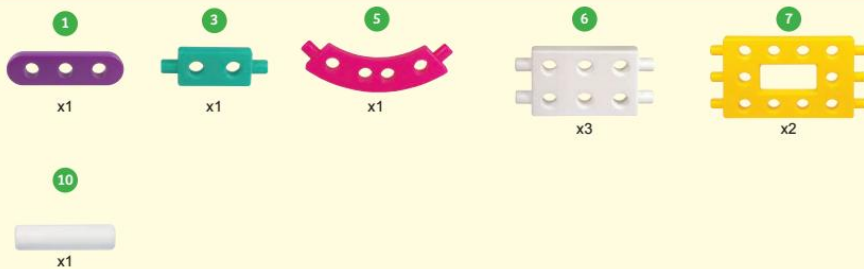


# 流理台

## Kitchenette



### 零件清單 Parts List

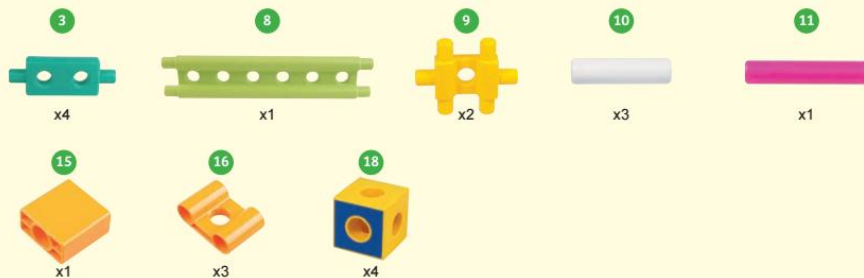


# 調味架

## Spice Rack



### 零件清單 Parts List



# 4

## 主題製作：夢幻廚房 Theme: Dream Kitchen

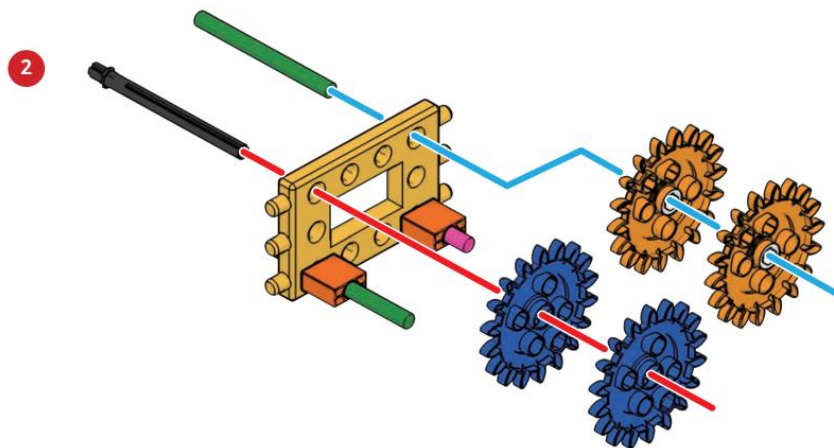
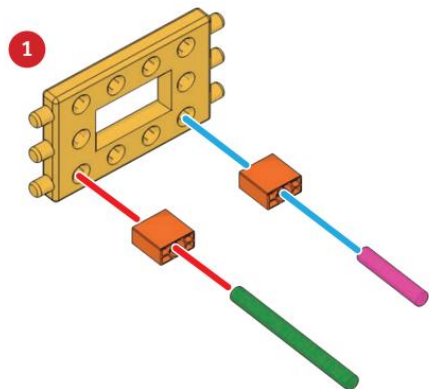
### 製麵機

### Noodle Maker



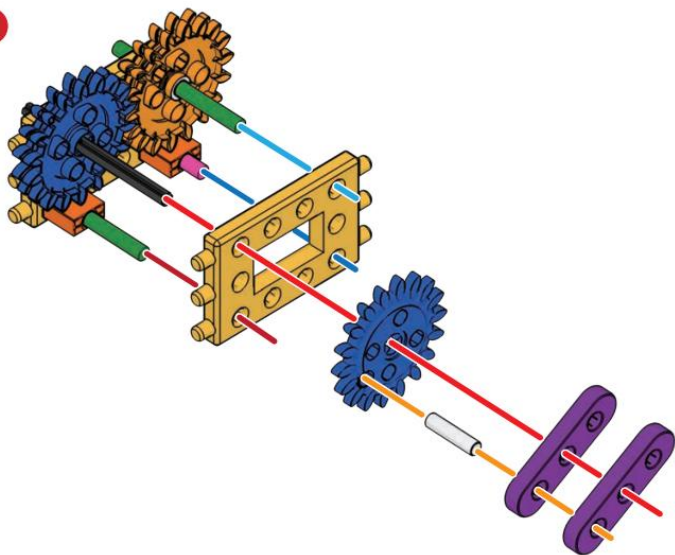
#### 零件清單 Parts List

<b>1</b>  x2	<b>7</b>  x2	<b>10</b>  x1	<b>11</b>  x1	<b>12</b>  x2
<b>15</b>  x2	<b>20</b>  x1	<b>22</b>  x3	<b>24</b>  x2	

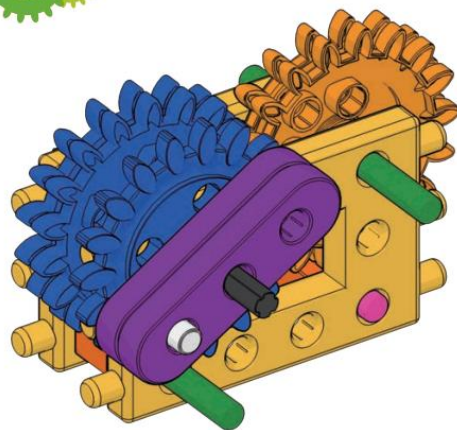




3



完成圖  
Done



# 5

## 主題模型 Theme Model

1  
後視鏡  
Wing Mirror



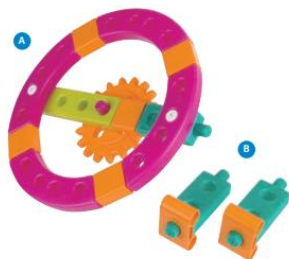
2  
雨刷  
Windshield Wiper



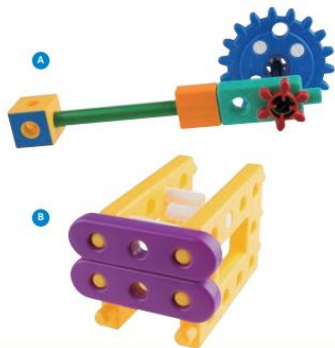
3  
置物架  
Cup Holder



4  
方向盤  
Steering Wheel



5  
排檔桿  
Gear Stick

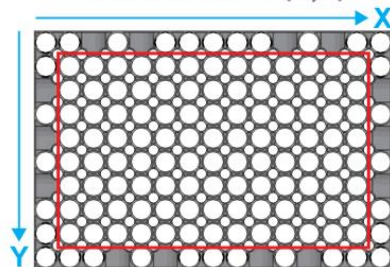


$a =$  大底盤編號  
JUMBO BASE GRID Coordinate

1	2	3	4
5	6	7	8
9	10	11	12

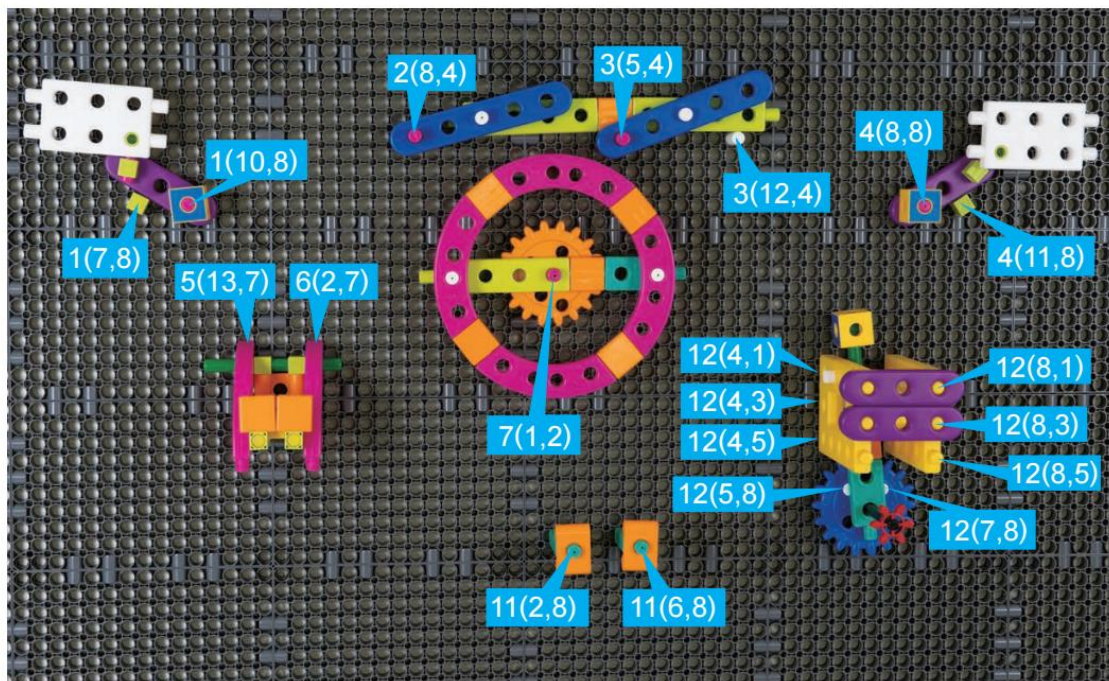
請由紅框內的孔位開始計算位置  
Count hole spaces carefully, starting from the upper left hand corner of the red rectangle.

座標 Coordinate :  $a=(X,Y)$



# 5

## 主題製作：汽車 Theme: Car



模型操作影片

Model Operation Video

座標僅供參考，依實際組裝為主。

The coordinates given are only an approximation. We encourage you to find your own solution.

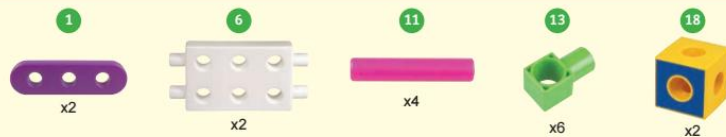


## 後視鏡

### Wing Mirror



#### 零件清單 Parts List



## 雨刷

### Windshield Wiper



#### 零件清單 Parts List



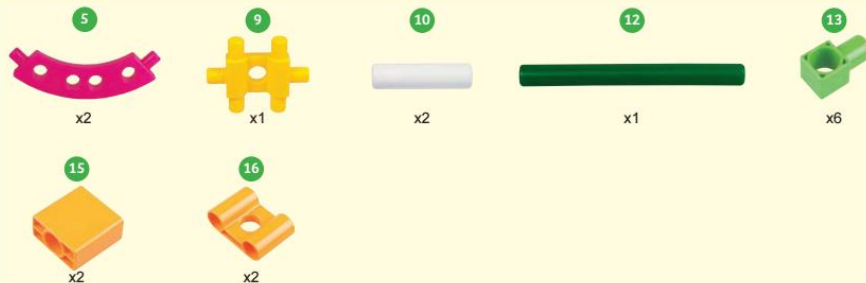


## 置物架

### Cup Holder

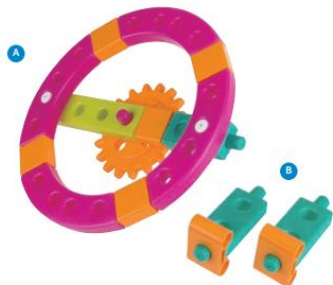


#### 零件清單 Parts List

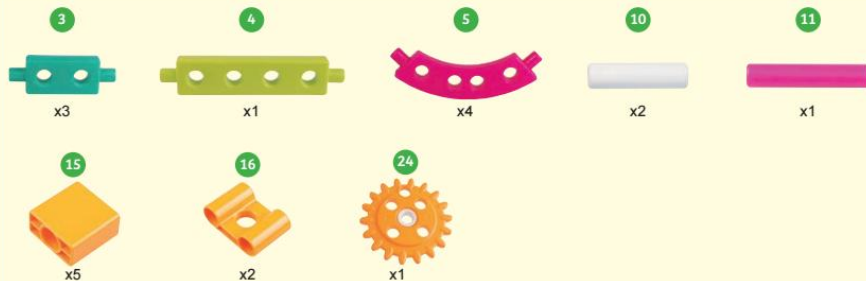


## 方向盤

### Steering Wheel



#### 零件清單 Parts List













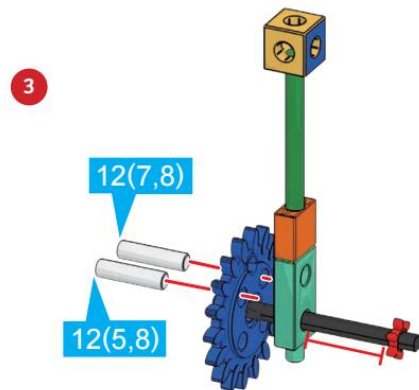
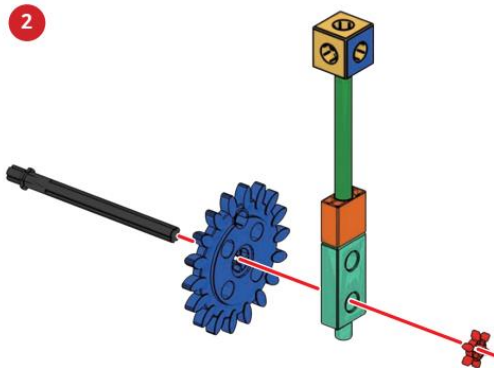
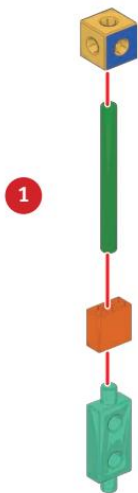
### 排檔桿

Gear Stick



#### 零件清單 Parts List

<b>1</b>  x2	<b>3</b>  x1	<b>7</b>  x2	<b>10</b>  x5	<b>12</b>  x1
<b>15</b>  x1	<b>18</b>  x1	<b>20</b>  x1	<b>21</b>  x1	<b>22</b>  x1





# 6

## 主題模型 Theme Model

1

電風扇  
Fan



2

寶劍  
Sword



3

陀螺  
Spinning Top



4

抽繩陀螺  
Rope-Pull Spinning Top





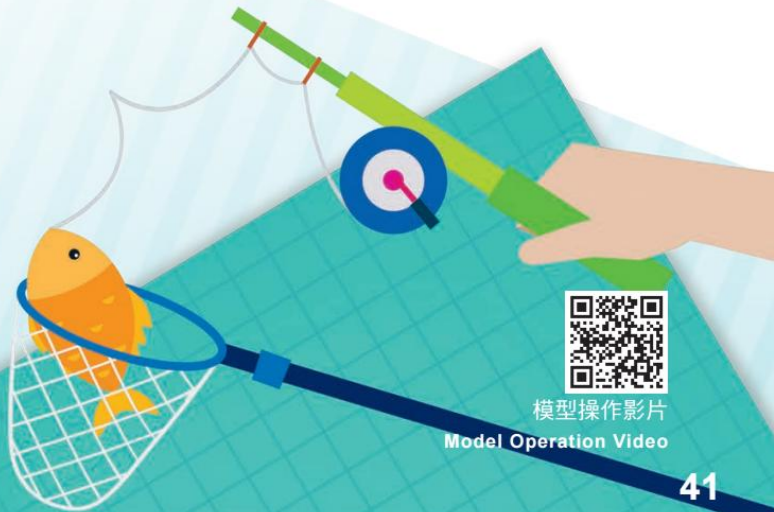
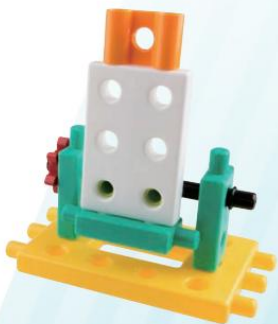
5  
釣竿  
Fishing Rod



6  
橡皮筋槍  
Rubber Band Gun



7  
標靶  
Target



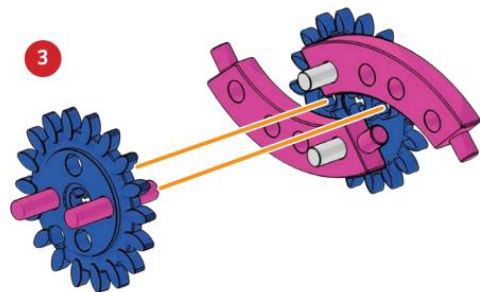
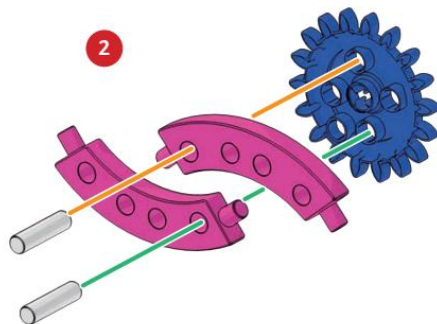
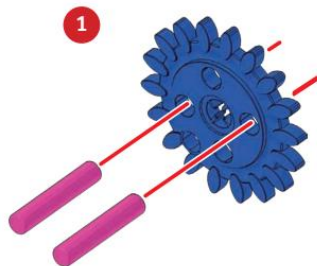
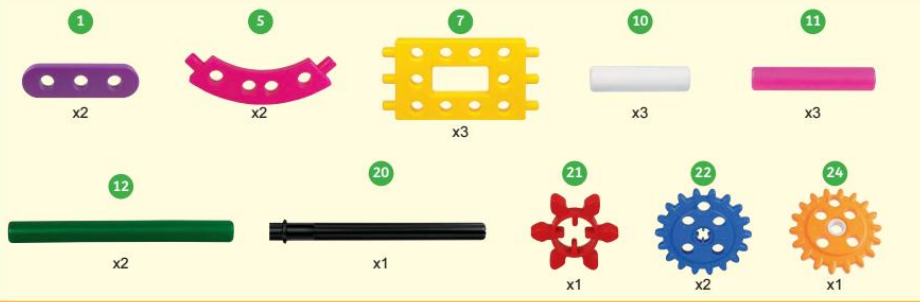
模型操作影片  
Model Operation Video

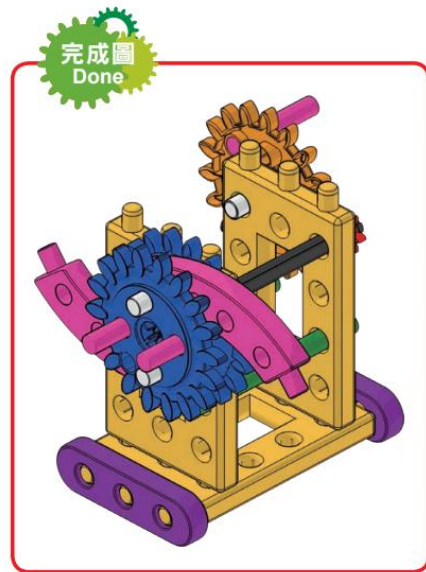
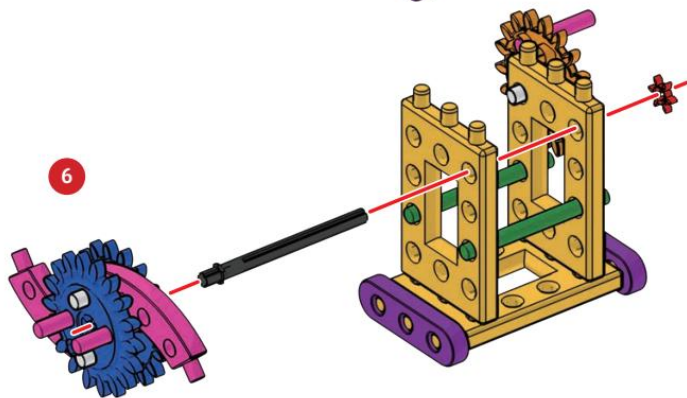
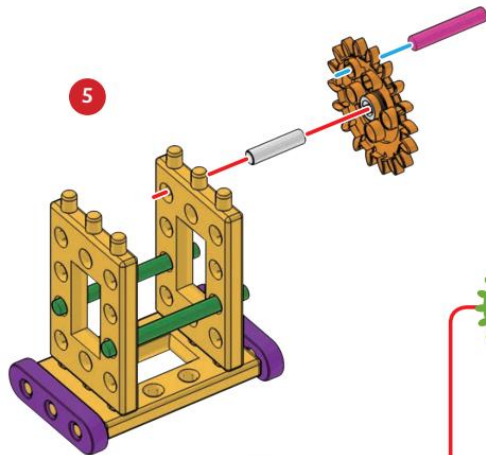
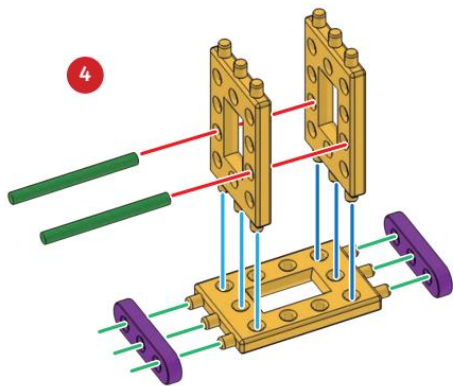
## 電風扇

Fan



### 零件清單 Parts List













# 6

## 主題製作：童玩 Theme: Classic Toys

### 寶劍 Sword



#### 零件清單 Parts List

				
x2	x1	x2	x2	x2
				
x2	x6	x4		

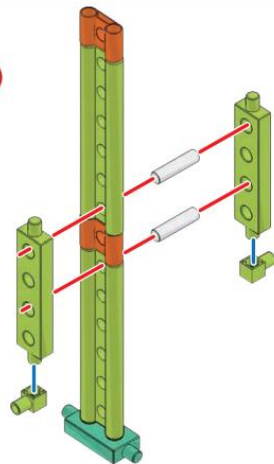
1 x2



2

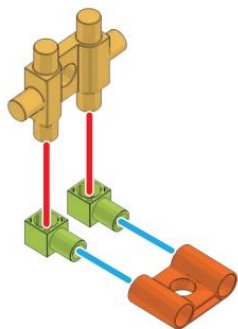


3

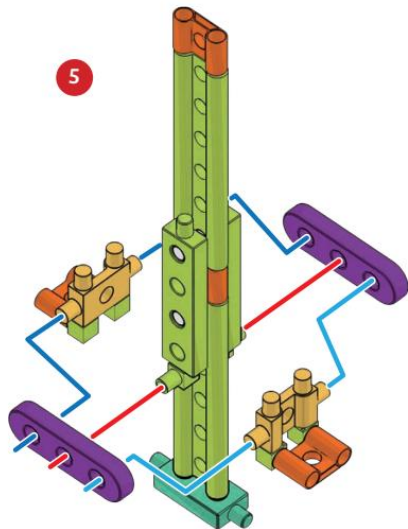




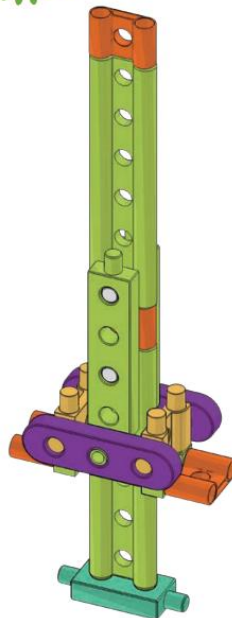
4 x2



5



完成圖  
Done

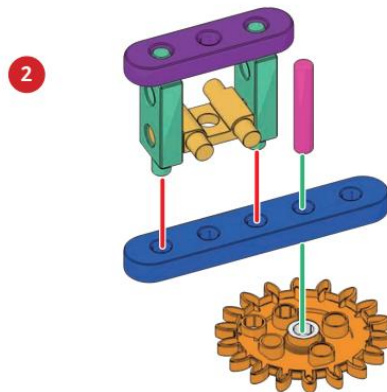
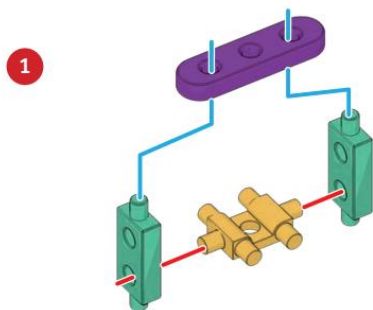
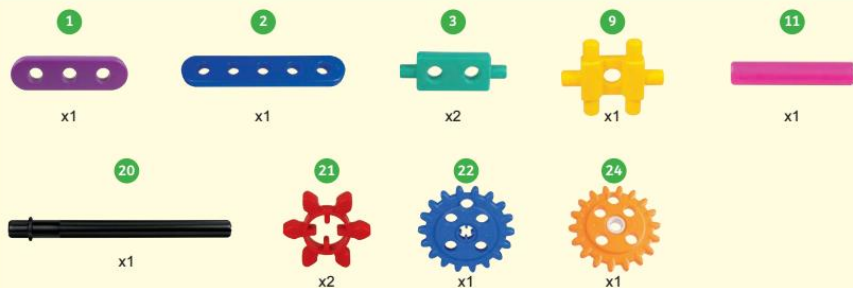


## 陀螺

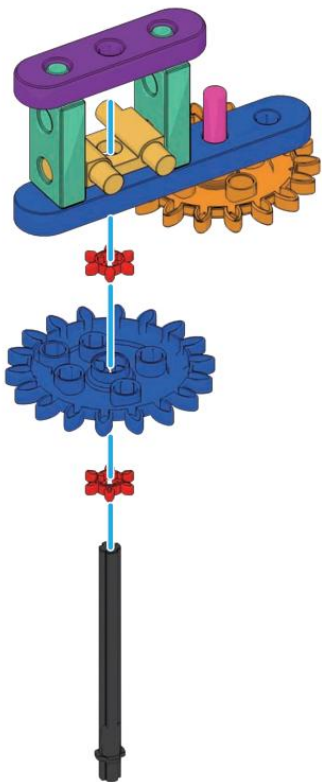
### Spinning Top



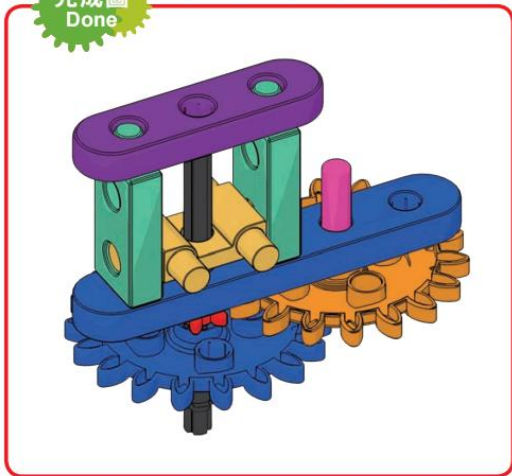
#### 零件清單 Parts List



3



完成圖  
Done

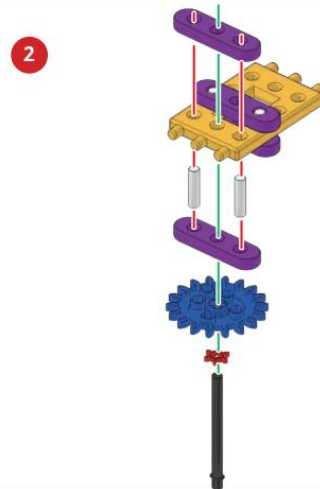
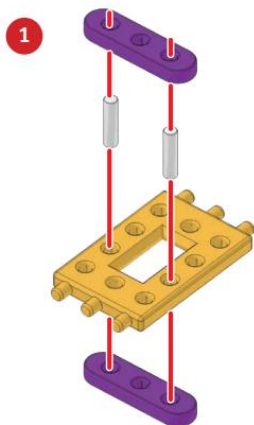
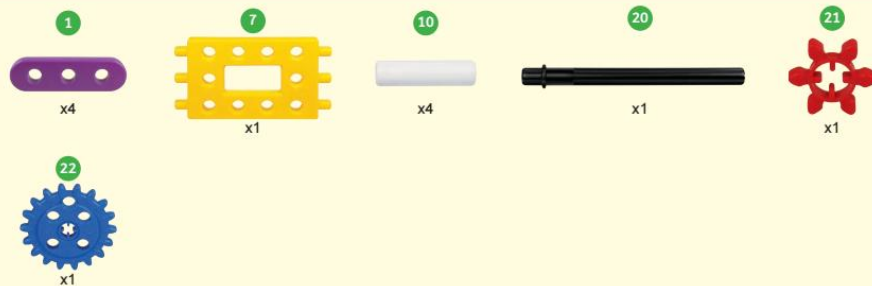


## 抽繩陀螺

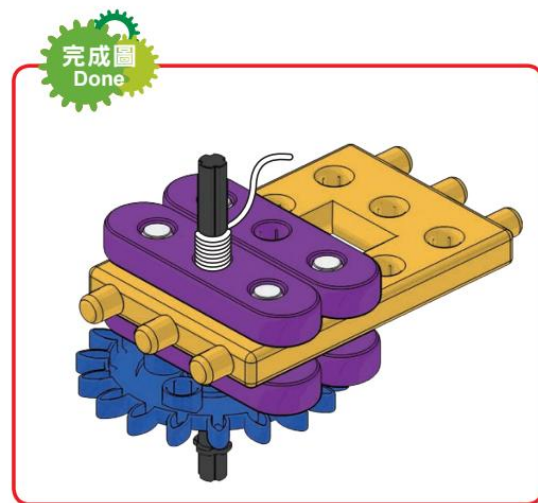
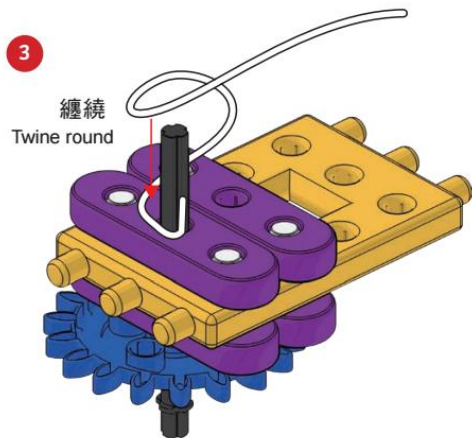
### Rope-Pull Spinning Top



#### 零件清單 Parts List







抽繩陀螺的棉線，請另外準備。

You will need to prepare your own thread to start the Rope-Pull Spinning Top.

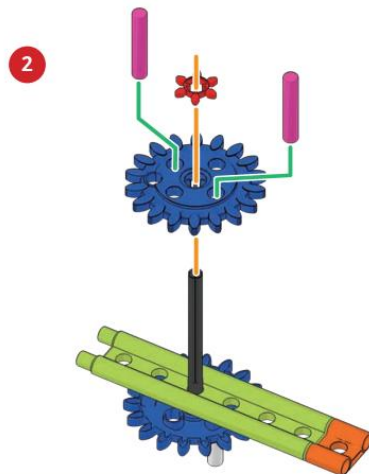
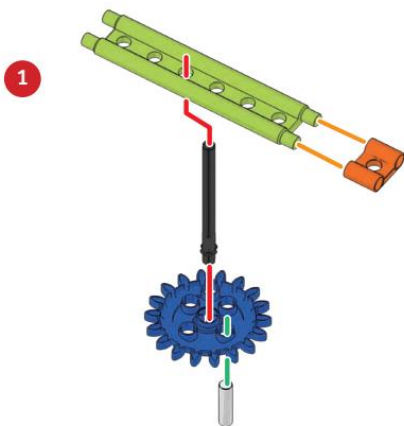
## 釣竿

### Fishing Rod

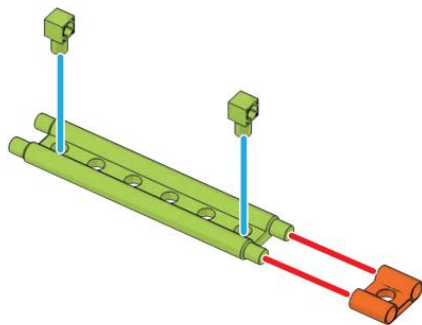


#### 零件清單 Parts List

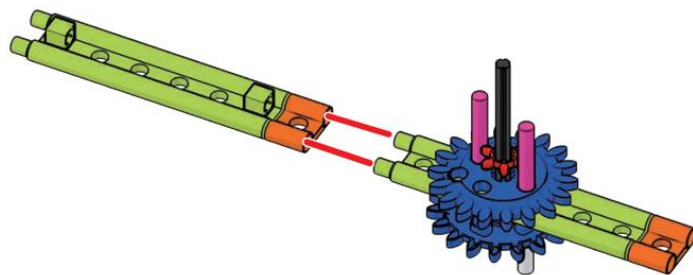
x2	x1	x2	x2	x2
x1	x1	x2		



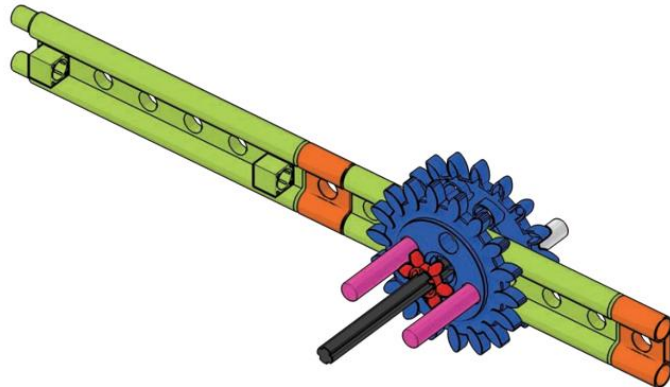
3



4



完成圖  
Done

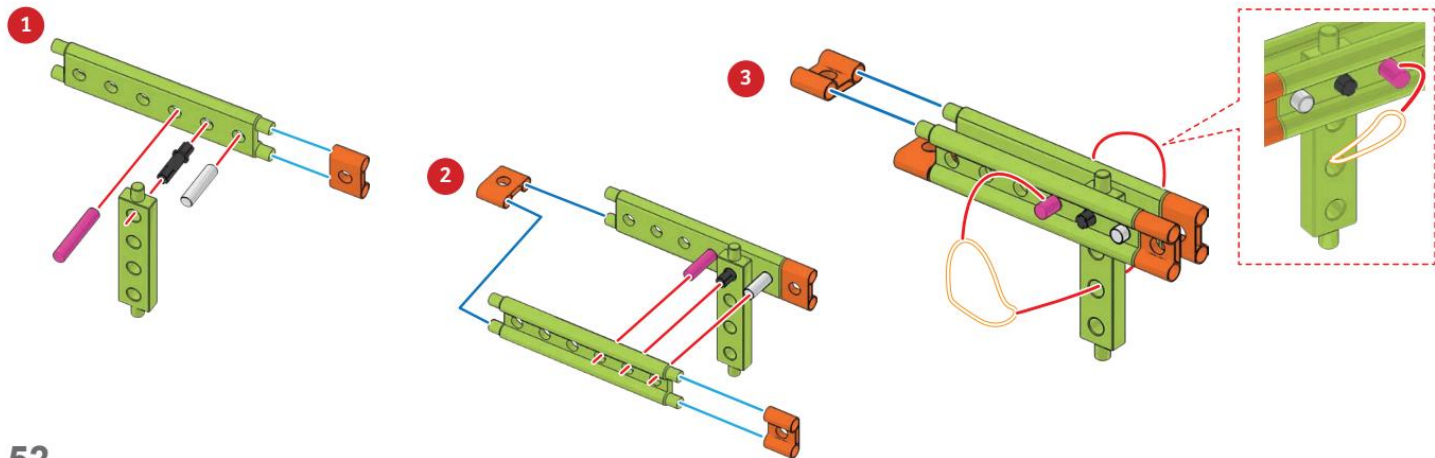
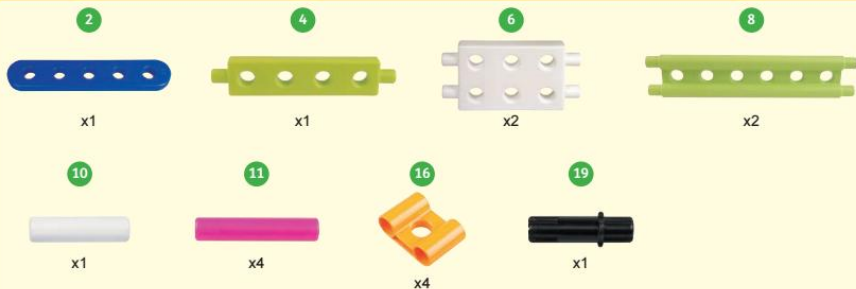


## 橡皮筋槍

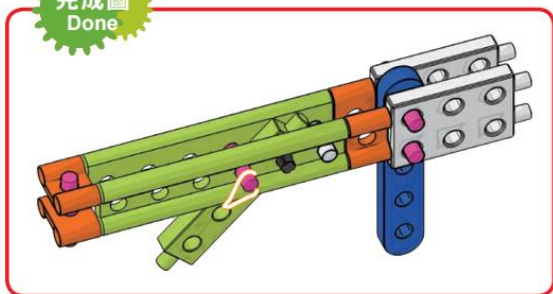
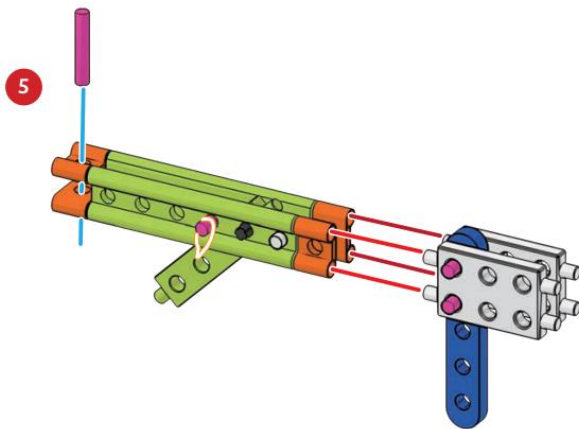
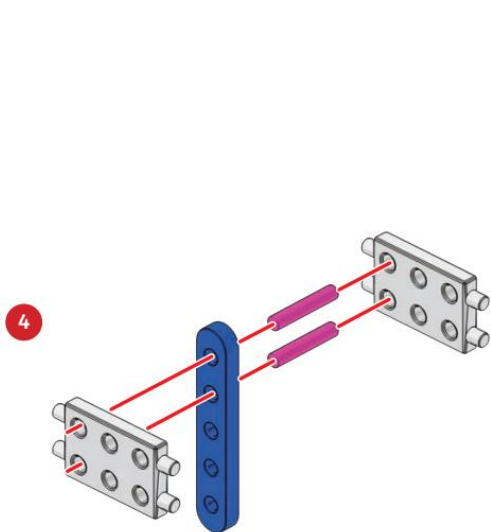
### Rubber Band Gun



#### 零件清單 Parts List







發射用橡皮筋，請另外準備。  
You will need to prepare your own rubber band to use as a projectile.

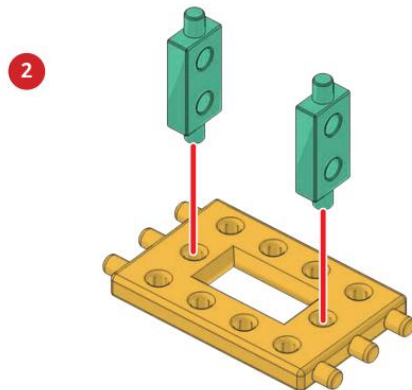
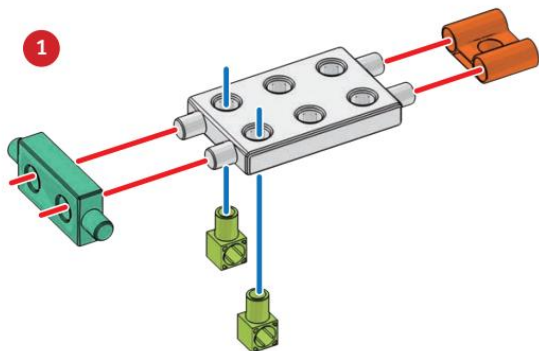
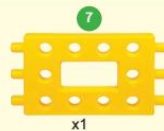
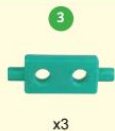
# 6

## 主題製作：童玩 Theme: Classic Toys

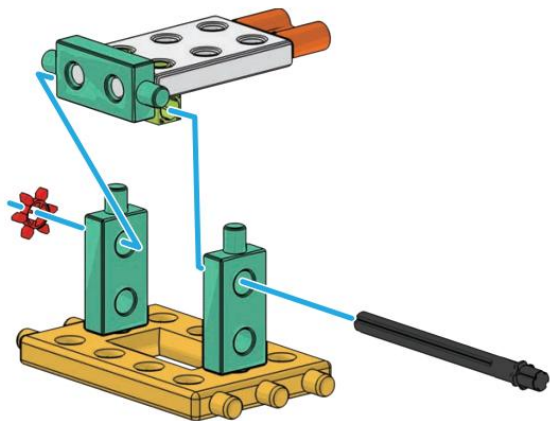
### 標靶 Target



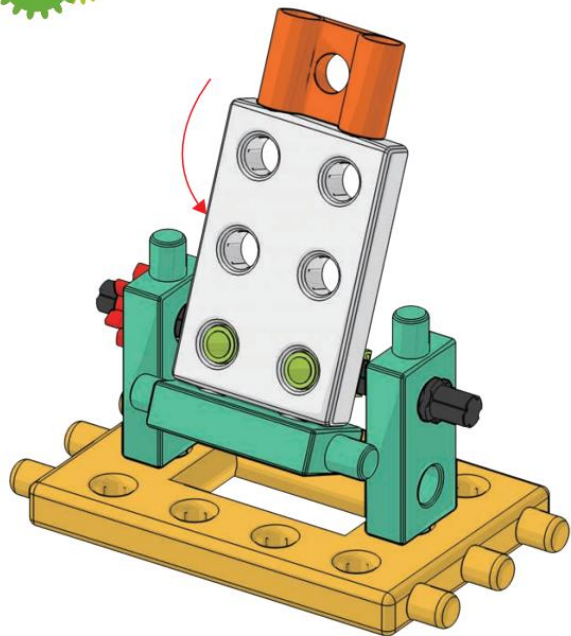
#### 零件清單 Parts List



3



完成圖  
Done





#1403

創客牆-方塊積木組 MAKER WALL  
80組模型 80 Models 1412 PCS



#1404

創客牆-軌道積木組 TRACK WALL  
30組模型 30 Models 175 PCS



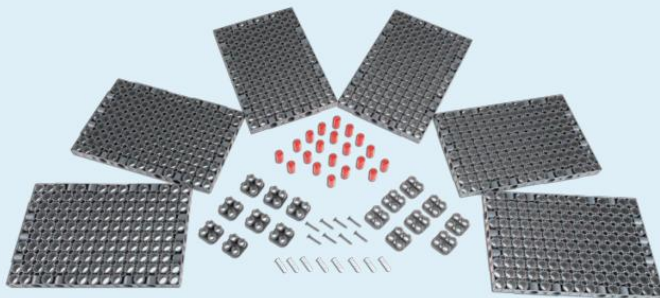
#1405

創客牆-齒輪積木組 GEAR UP WALL  
30組模型 30 Models 203 PCS

## 創意大底盤組 Jumbo Base Grid

#T036R

58PCS



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