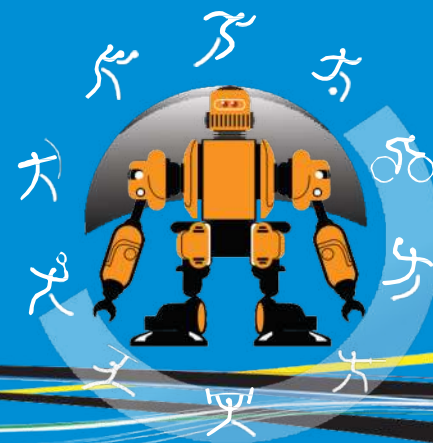




全能團體賽

初小組

競賽模型車製作、場地設置製作及程式編寫指南

版本：2026 年 10 月 30 日

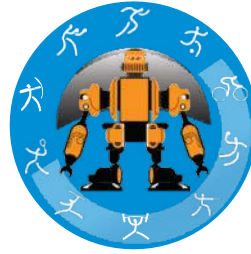


聯合主辦



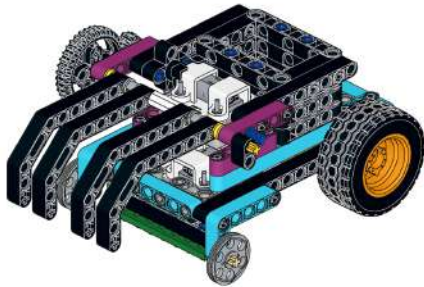
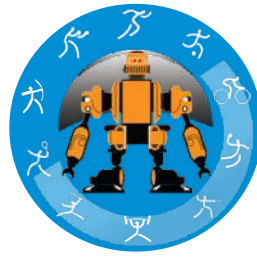
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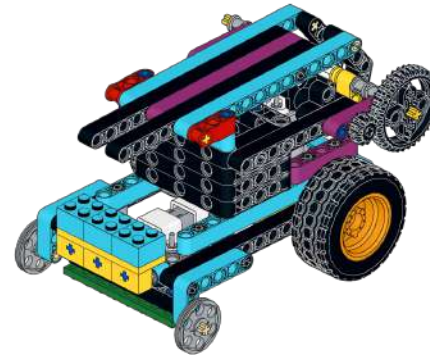


內容

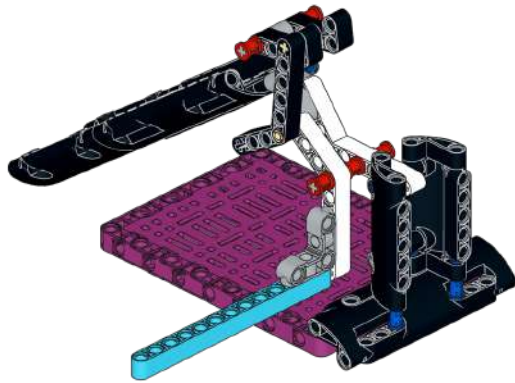
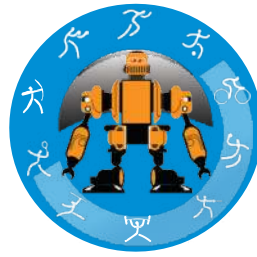
- A. 競賽模型車製作
- B. 場地設置製作
- C. 程式編寫指南



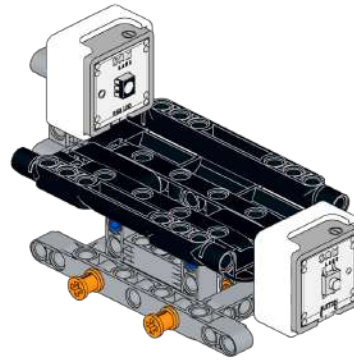
機械人 A
(Page 6 - 29)



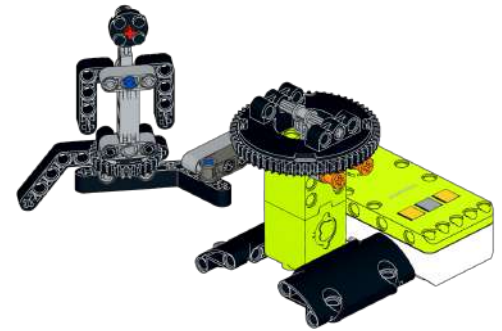
機械人 B
(Page 30 - 61)



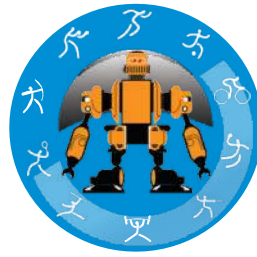
鋼架雪車設置
(Page 62 - 73)



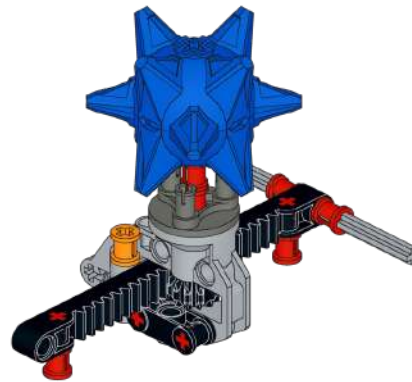
跳台滑雪設置
(Page 74 - 79)



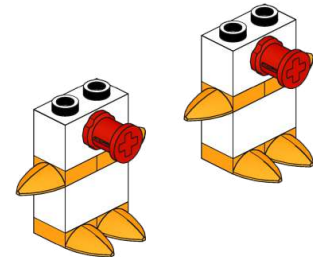
花式溜冰設置
(Page 80 - 90)



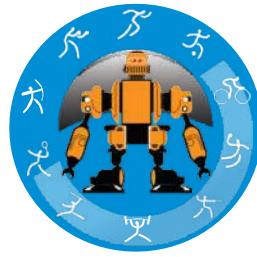
子彈倉庫區設置
(Page 91 - 96)



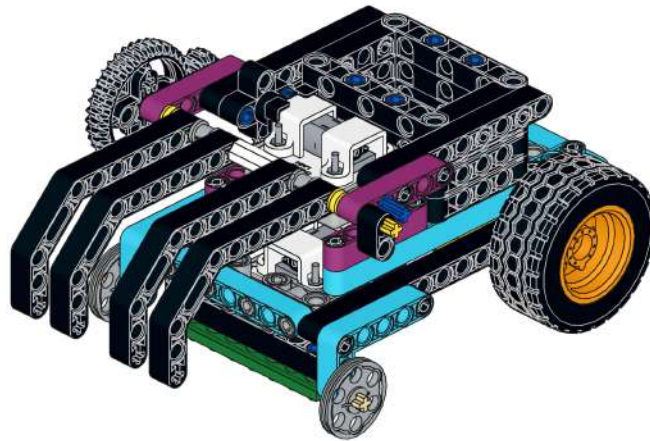
速度滑冰設置
(Page 97 - 102)



參賽者
(Page 103 - 104)

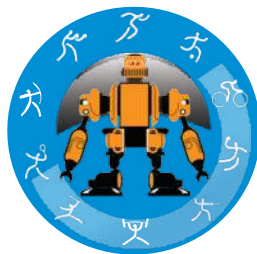


A. 競賽模型車製作

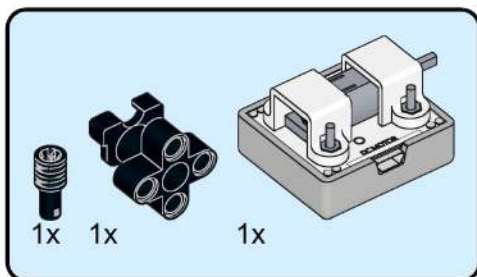


競賽模型車製作 (機械人 A)

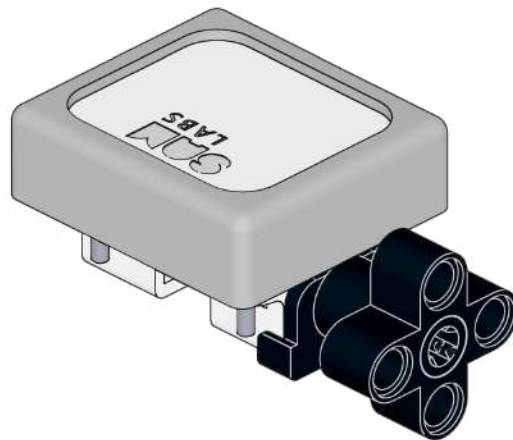
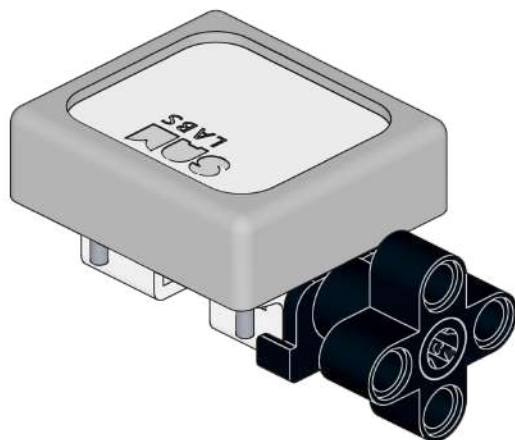
A. 競賽模型車製作 (機械人 A)



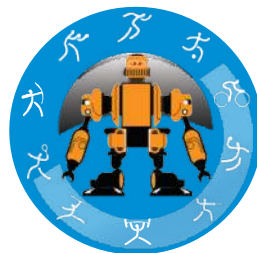
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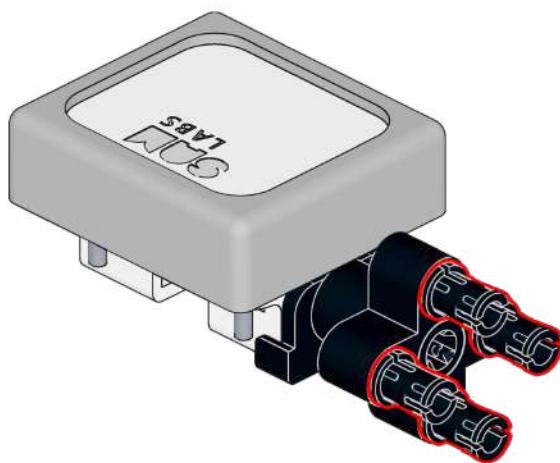
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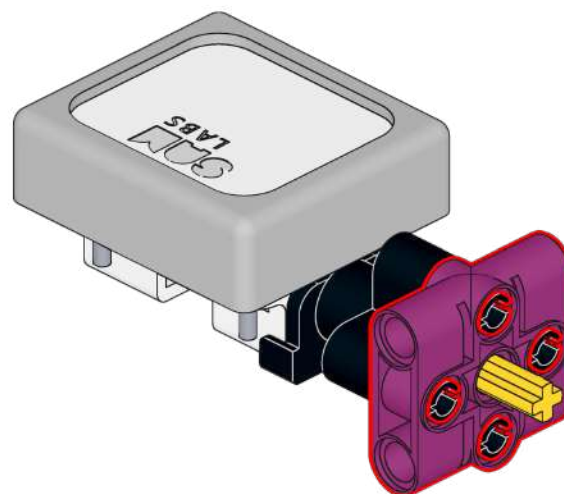
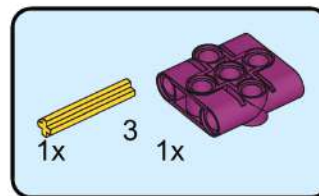
A. 競賽模型車製作 (機械人 A)

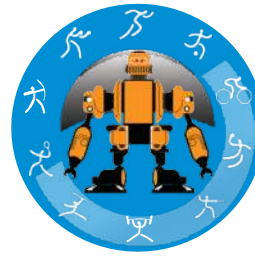


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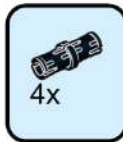
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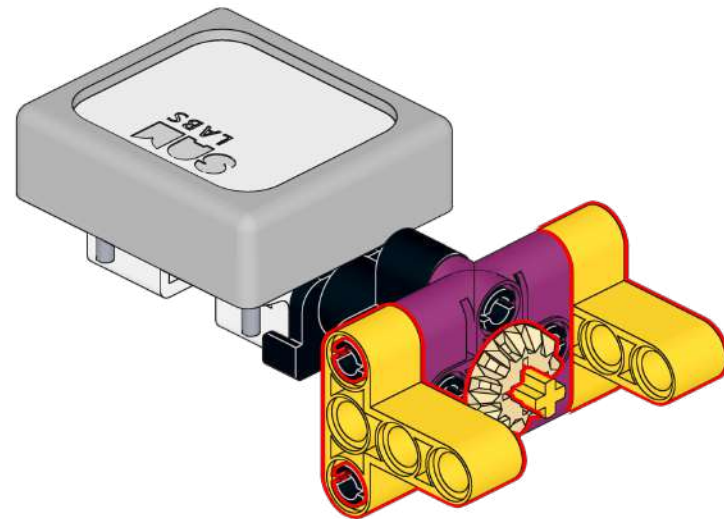
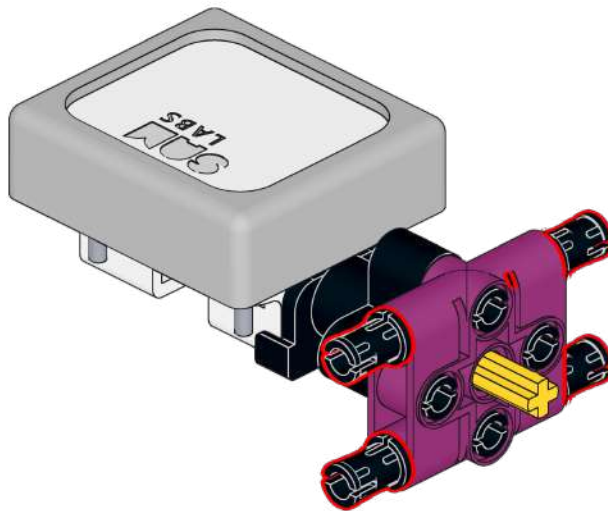
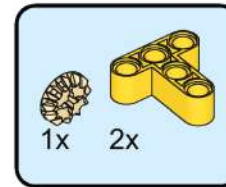


A. 競賽模型車製作 (機械人 A)

5



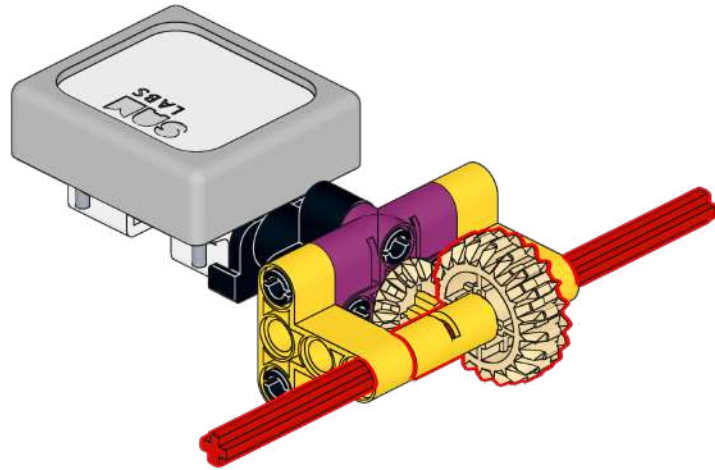
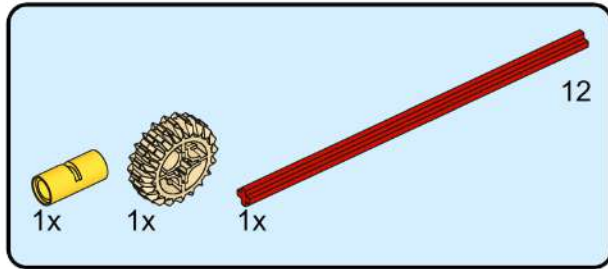
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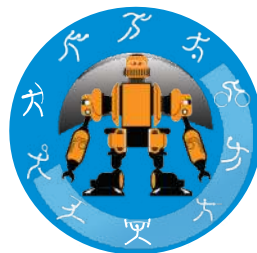


A. 競賽模型車製作 (機械人 A)

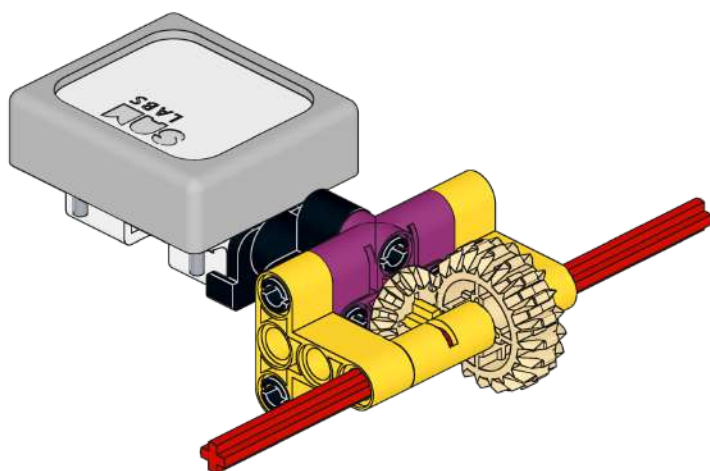
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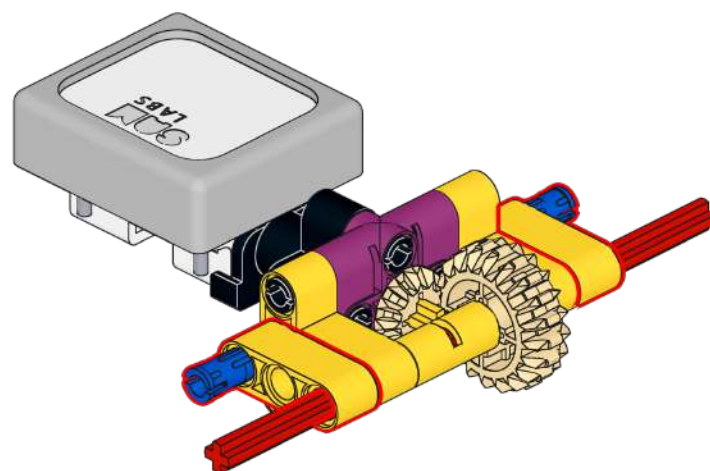
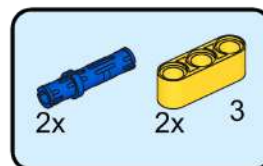
A. 競賽模型車製作 (機械人 A)

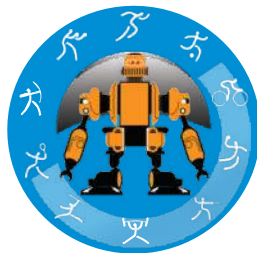


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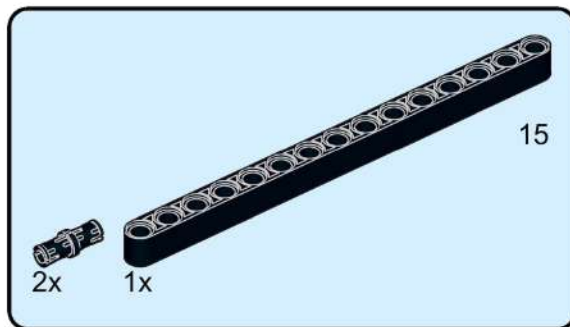
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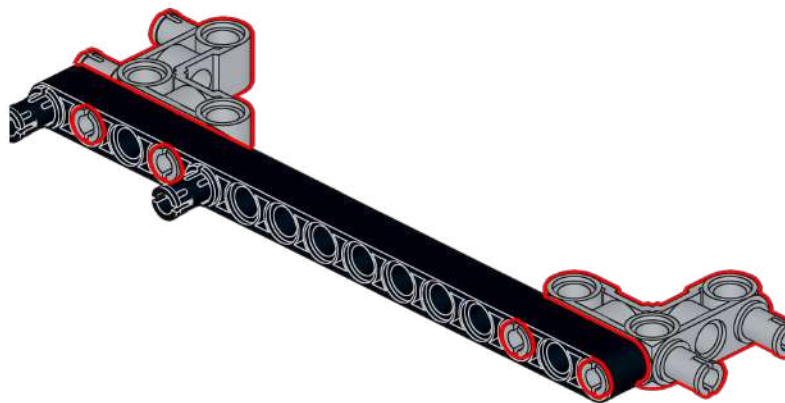
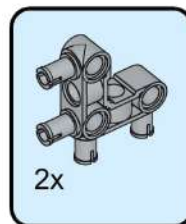


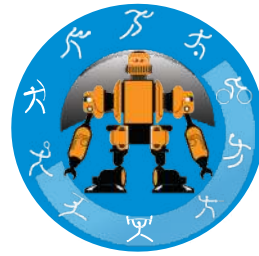
A. 競賽模型車製作 (機械人 A)

10



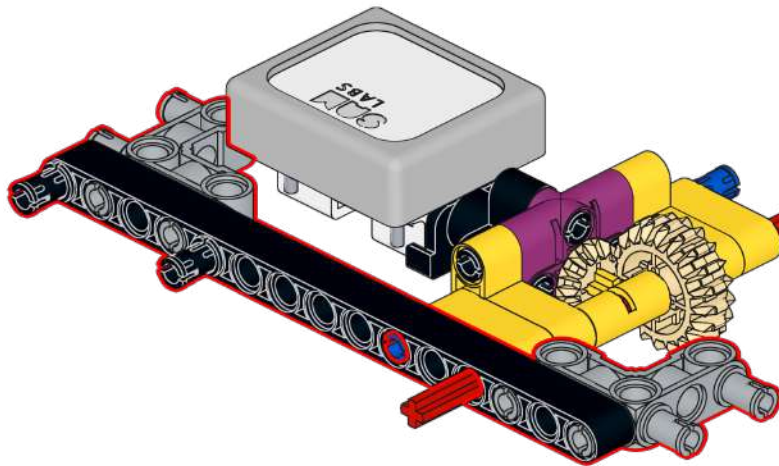
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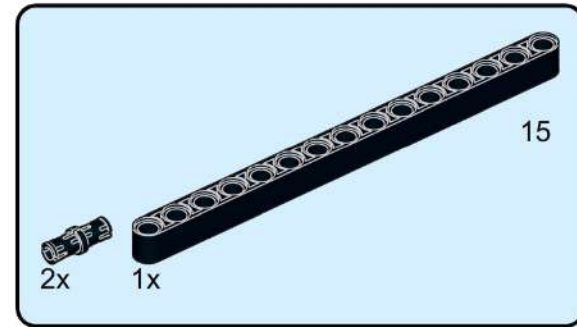


A. 競賽模型車製作 (機械人 A)

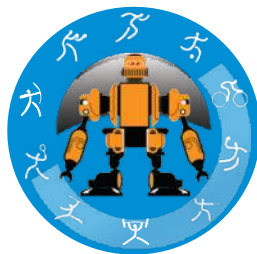
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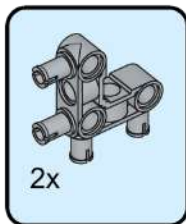
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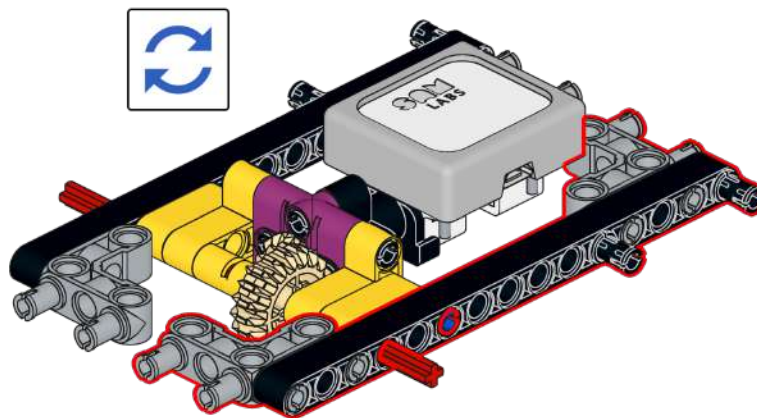
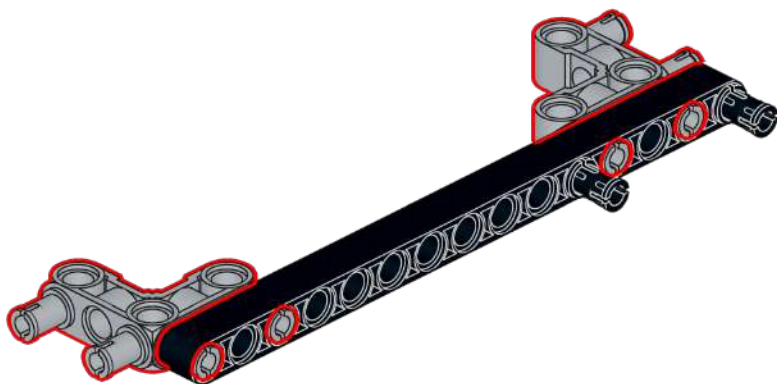
A. 競賽模型車製作 (機械人 A)

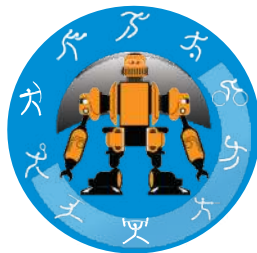


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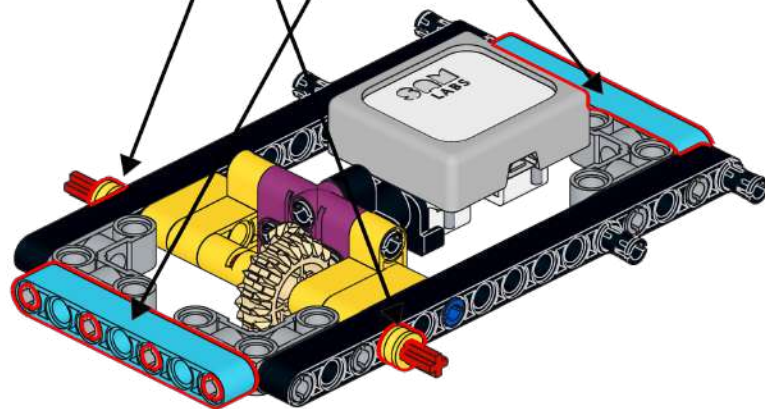
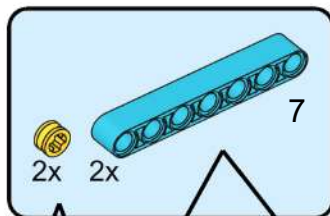
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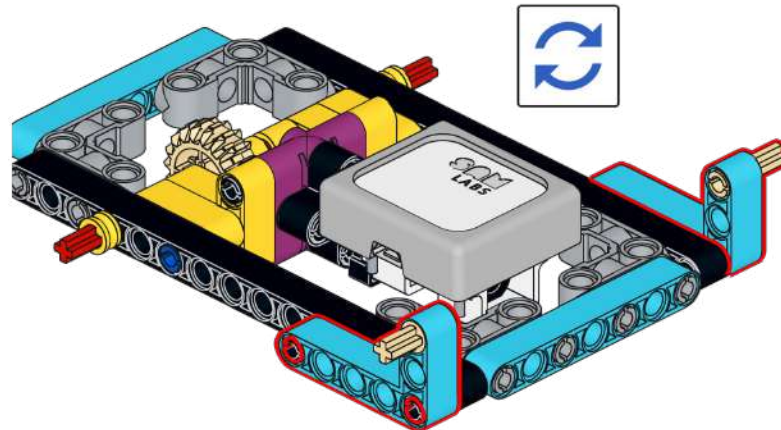
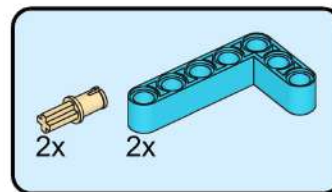


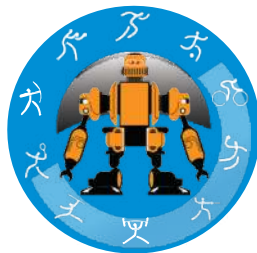
A. 競賽模型車製作 (機械人 A)

16



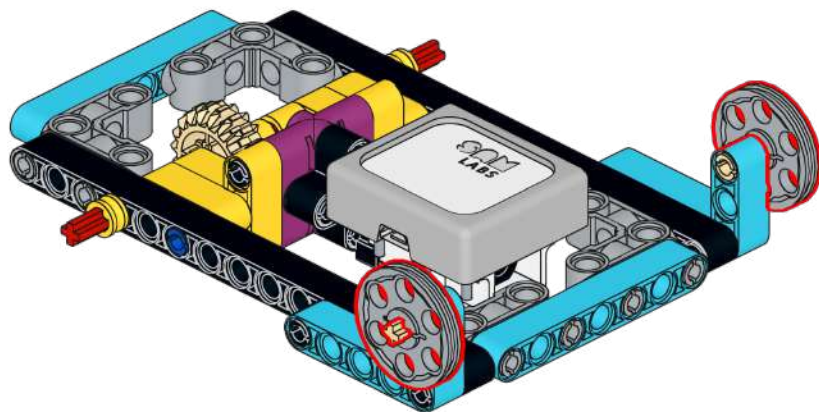
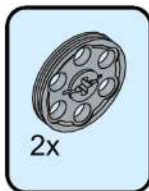
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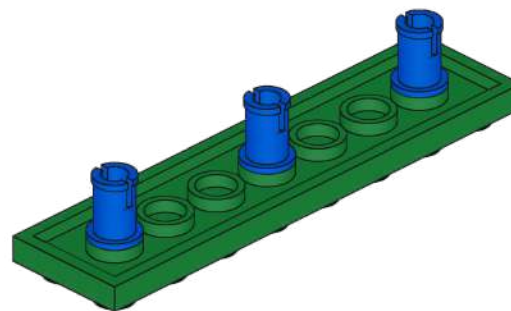
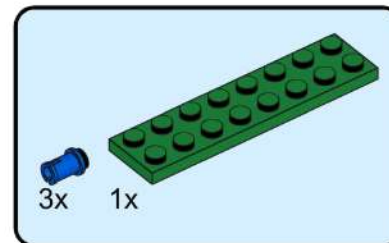


A. 競賽模型車製作 (機械人 A)

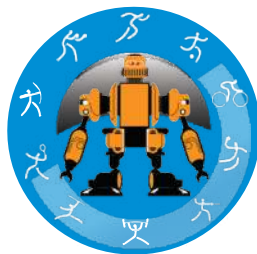
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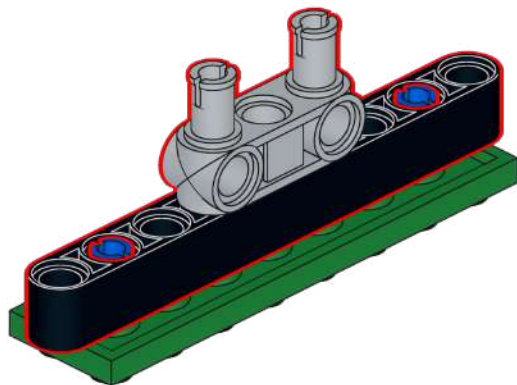
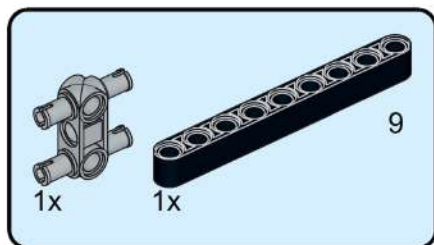
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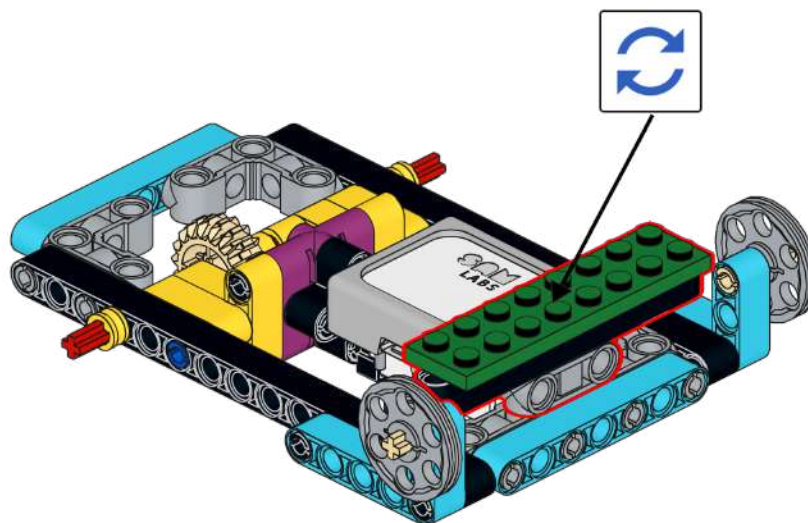
A. 競賽模型車製作 (機械人 A)



20



21



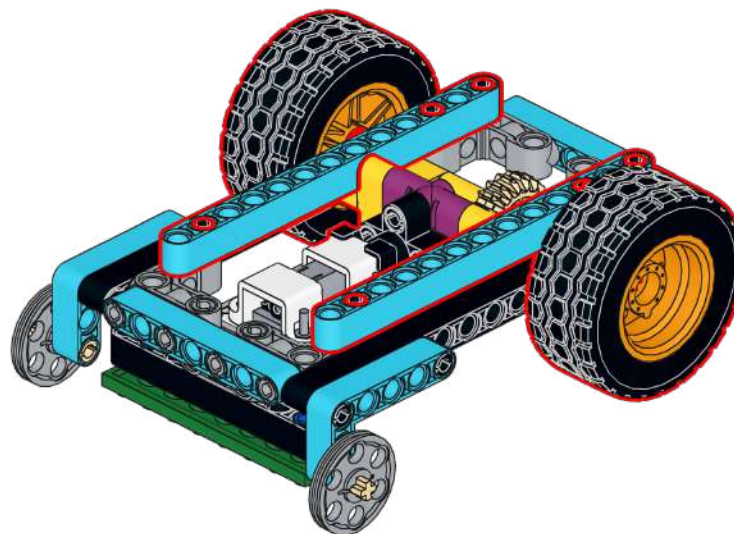
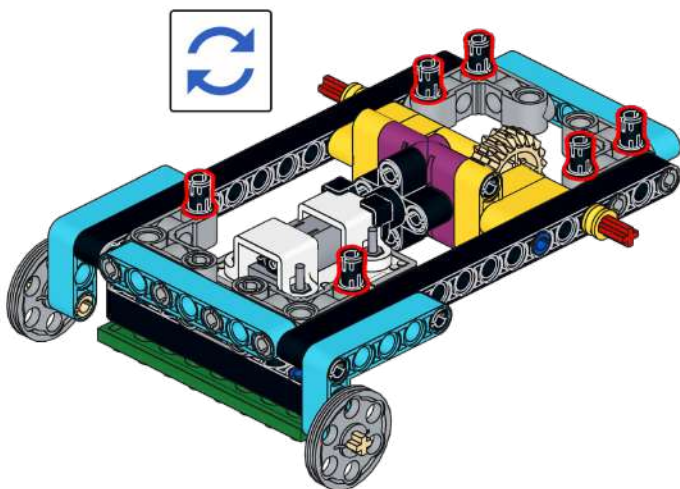
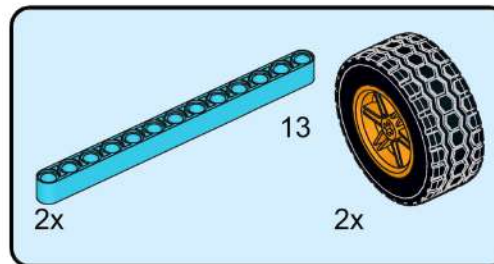
A. 競賽模型車製作 (機械人 A)



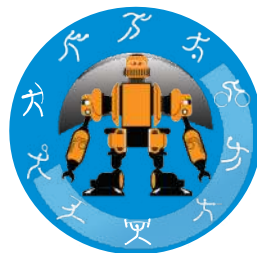
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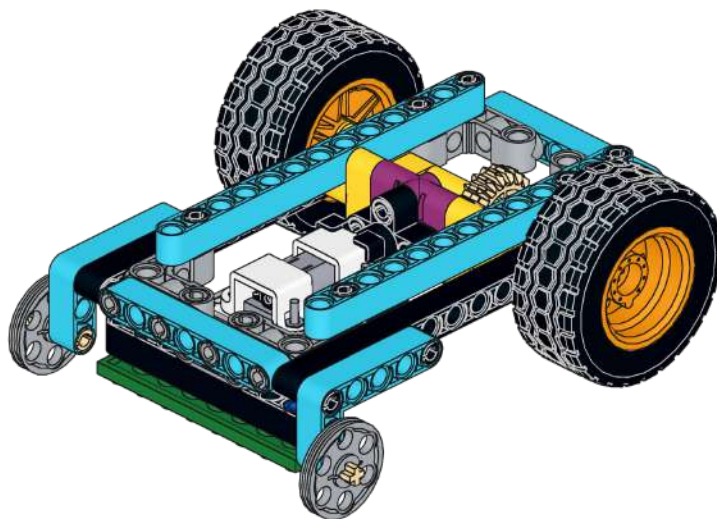
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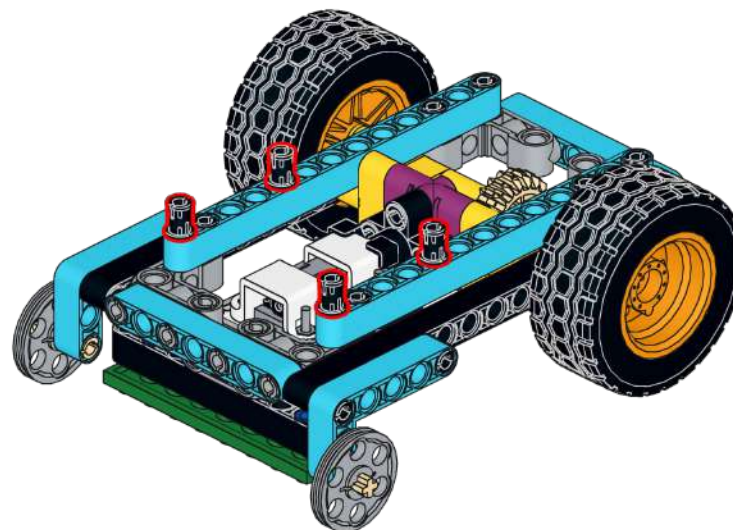
A. 競賽模型車製作 (機械人 A)



24



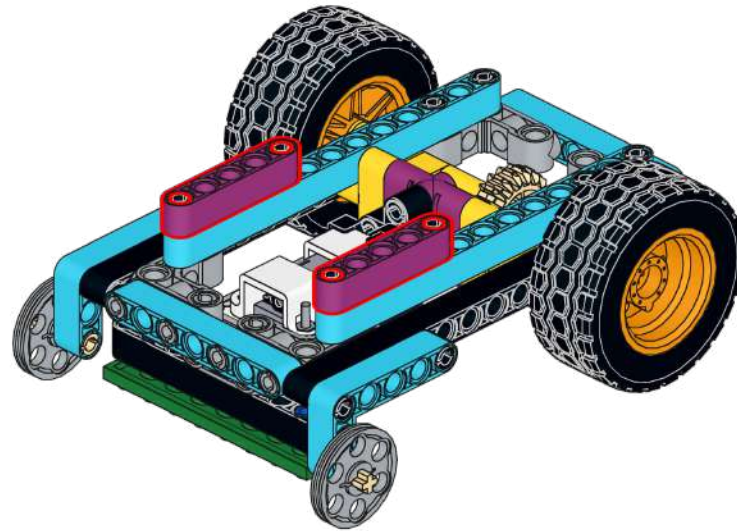
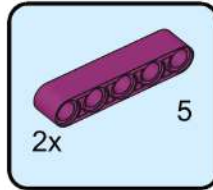
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A. 競賽模型車製作 (機械人 A)

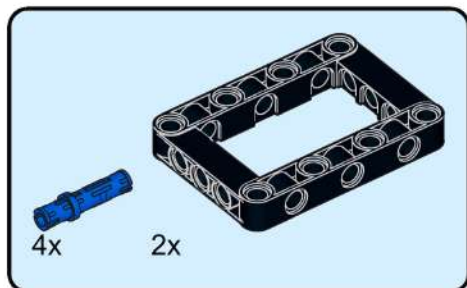
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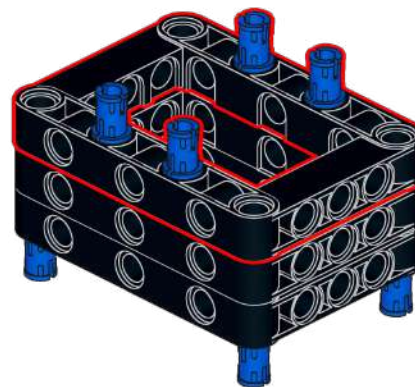
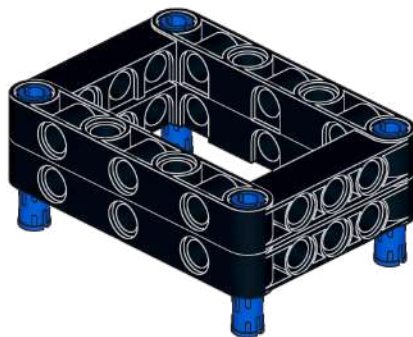
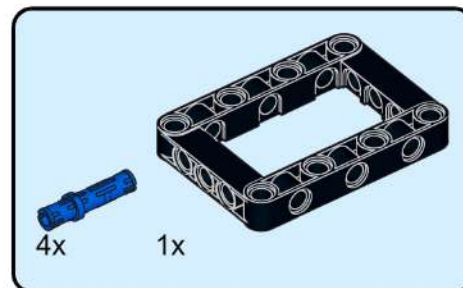
A. 競賽模型車製作 (機械人 A)



27



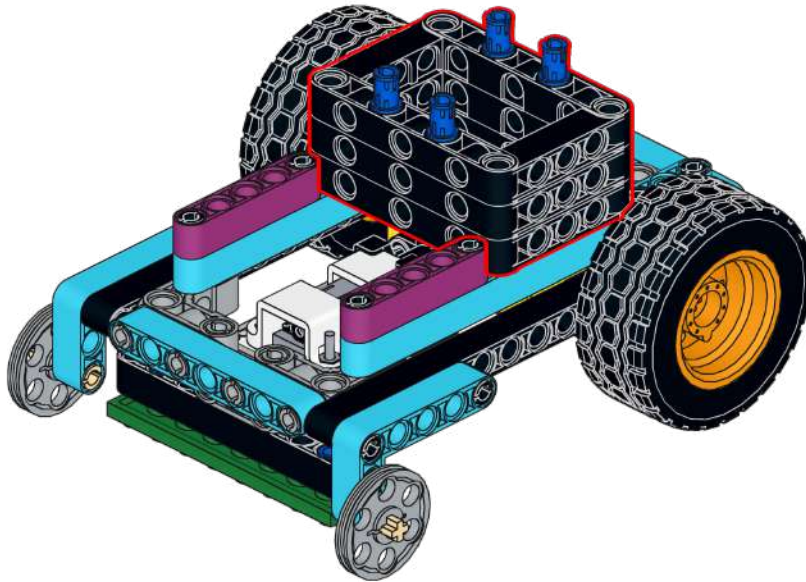
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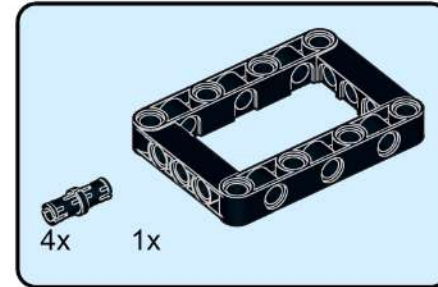


A. 競賽模型車製作 (機械人 A)

29



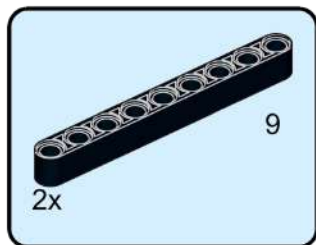
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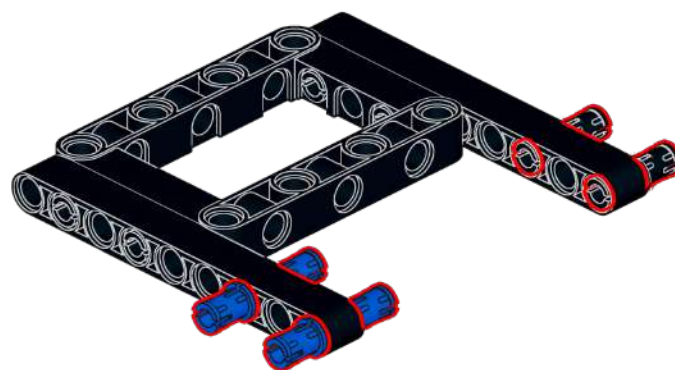
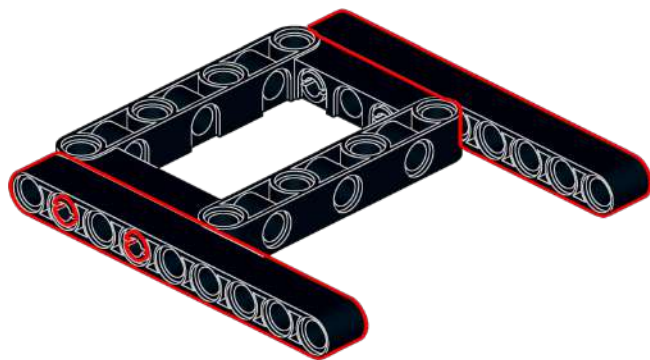
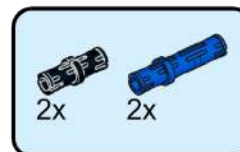
A. 競賽模型車製作 (機械人 A)

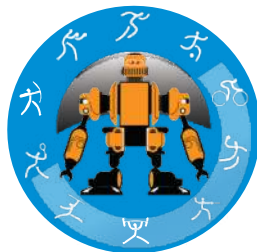


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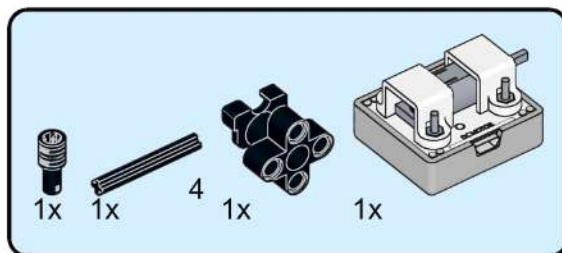
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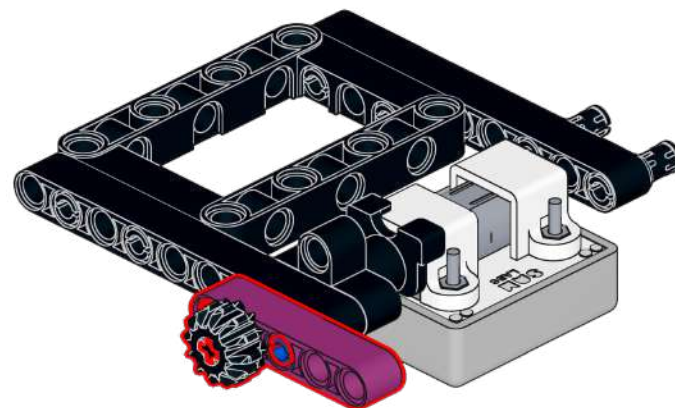
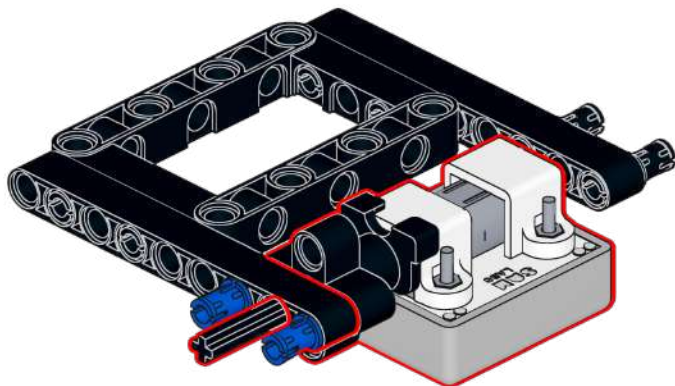
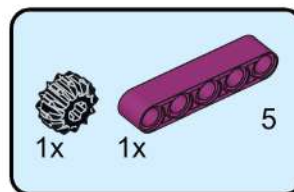


A. 競賽模型車製作 (機械人 A)

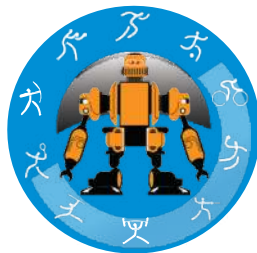
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34

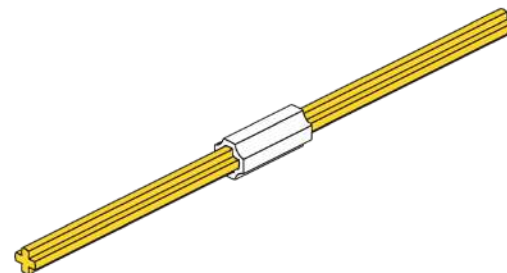
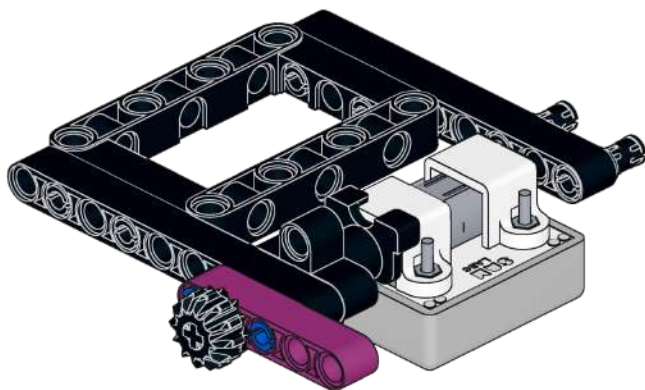
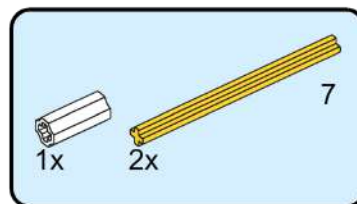


A. 競賽模型車製作 (機械人 A)



35

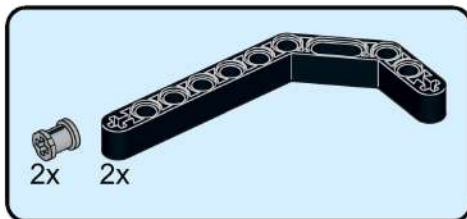
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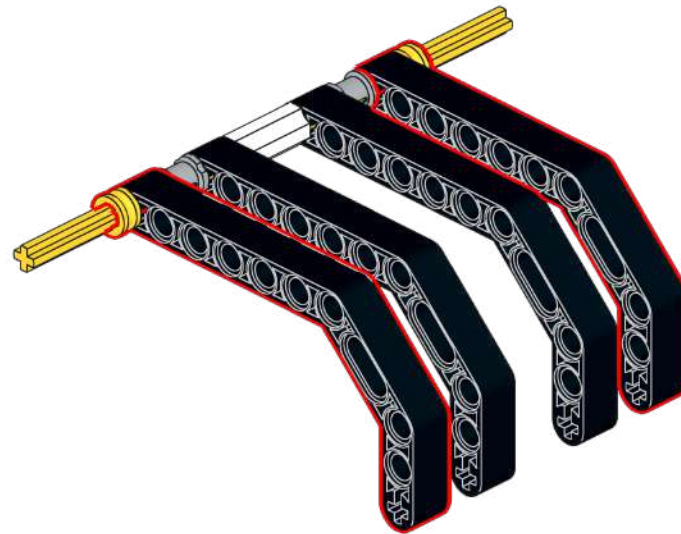
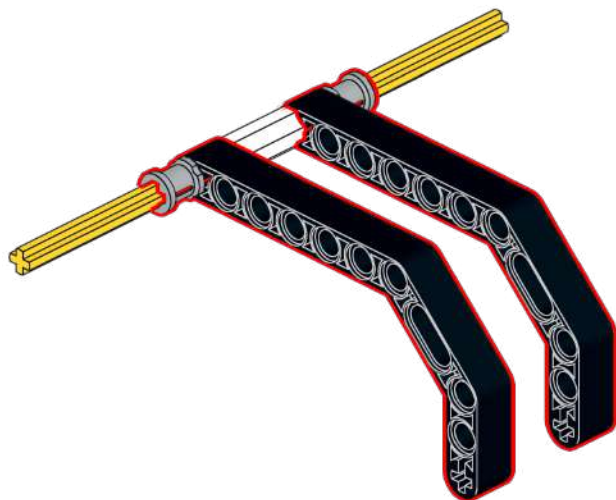
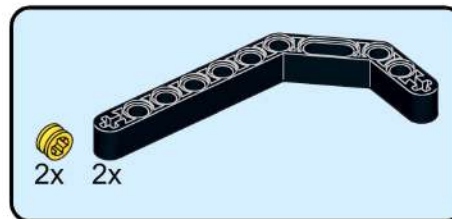
A. 競賽模型車製作 (機械人 A)



37



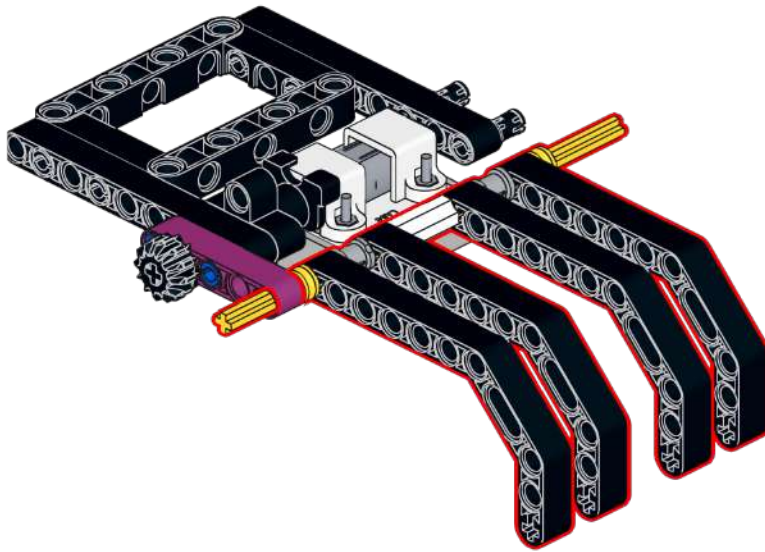
38



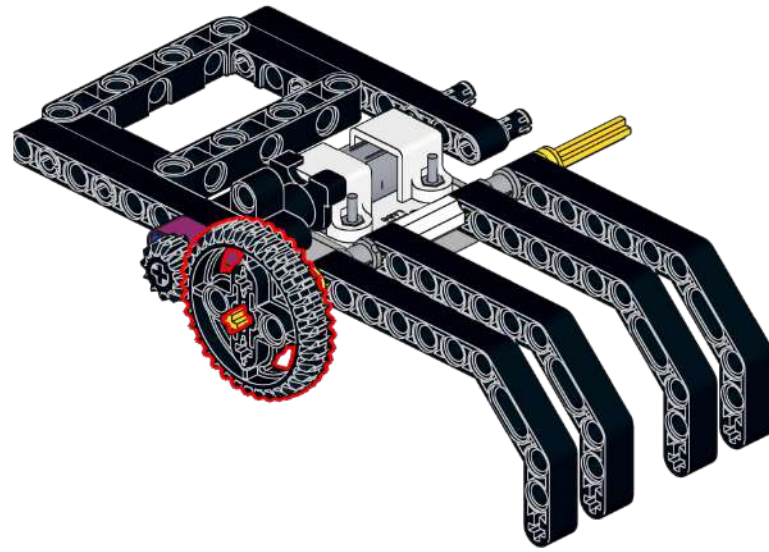
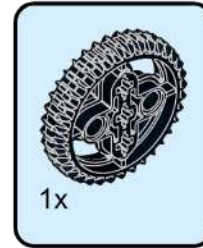


A. 競賽模型車製作 (機械人 A)

39



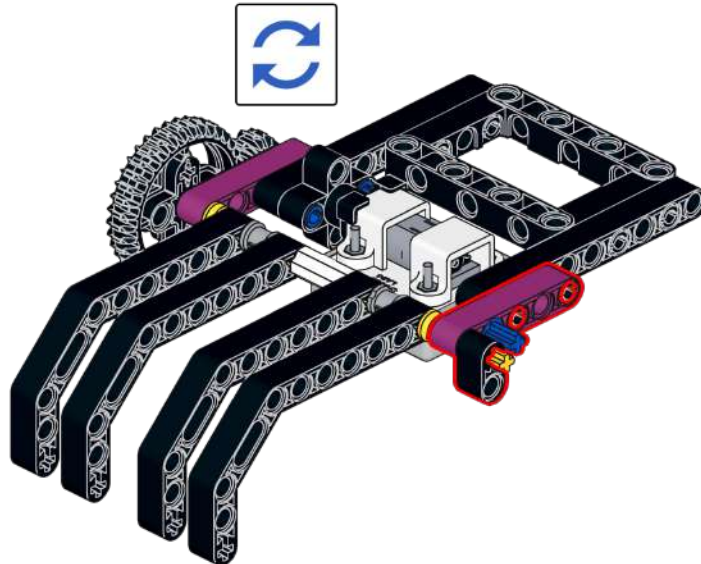
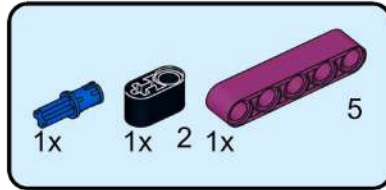
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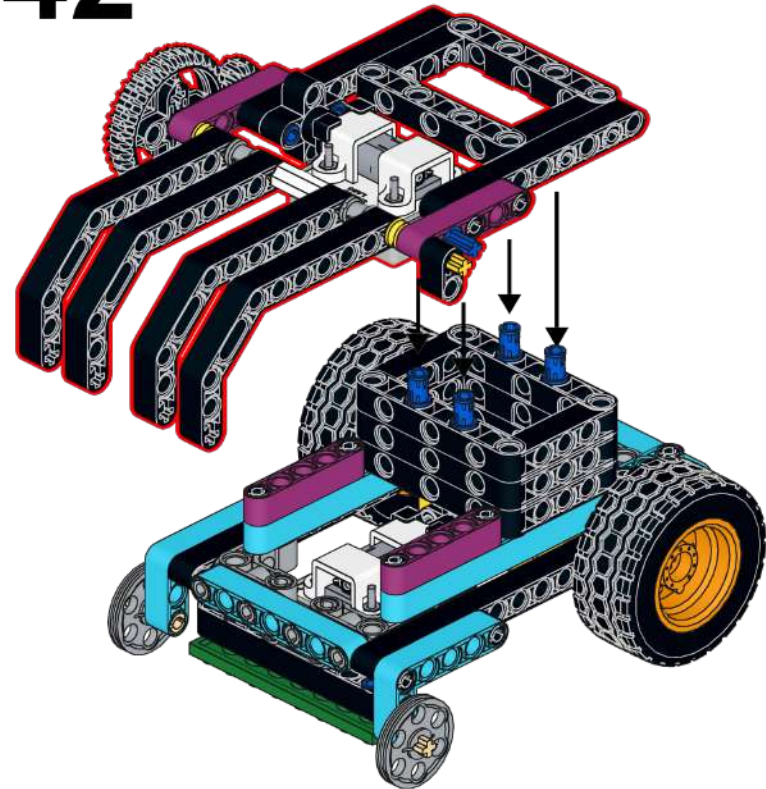


A. 競賽模型車製作 (機械人 A)

41



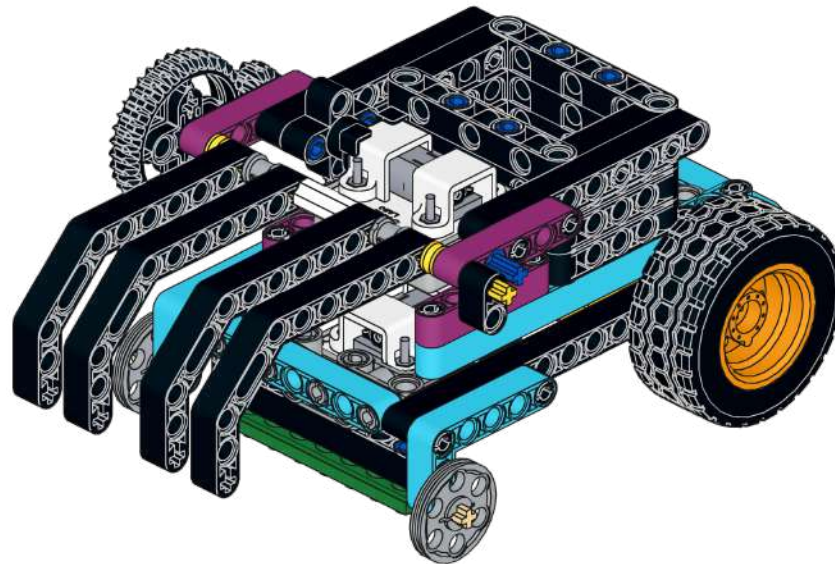
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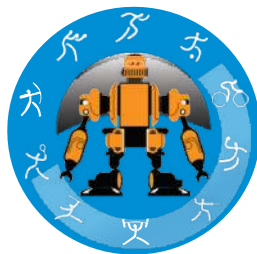




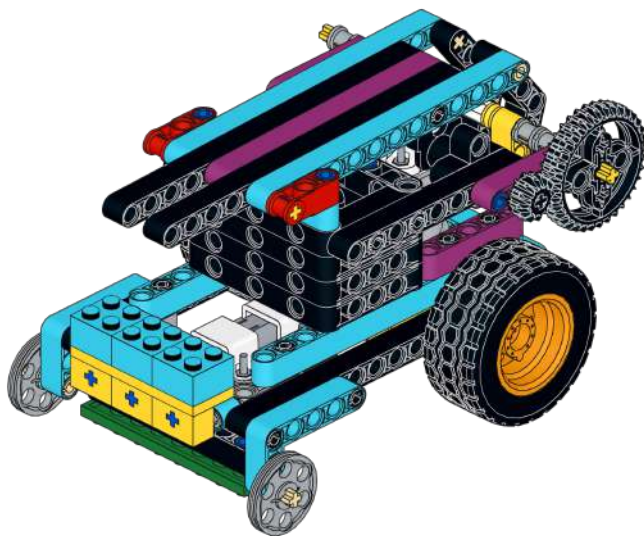
A. 競賽模型車製作 (機械人 A)

43



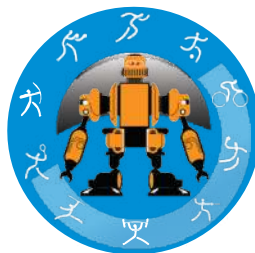


A. 競賽模型車製作

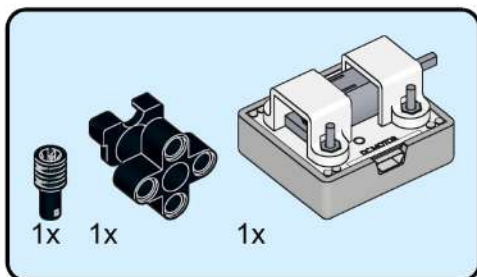


競賽模型車製作 (機械人 B)

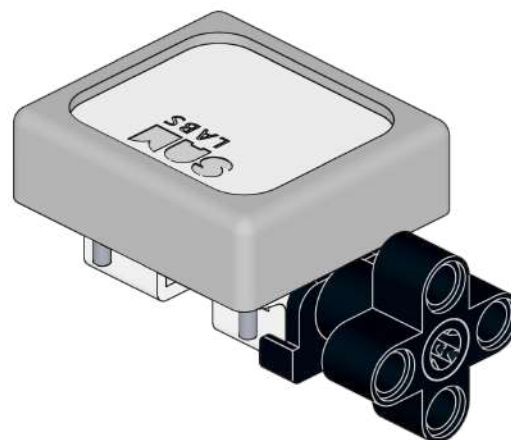
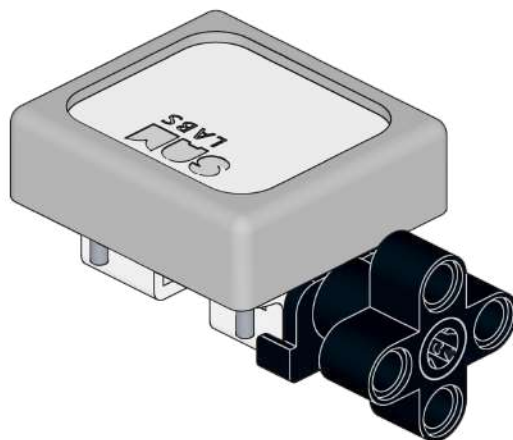
A. 競賽模型車製作 (機械人 B)



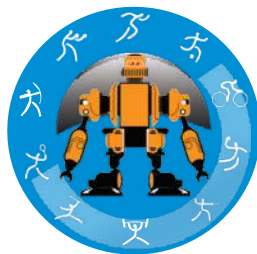
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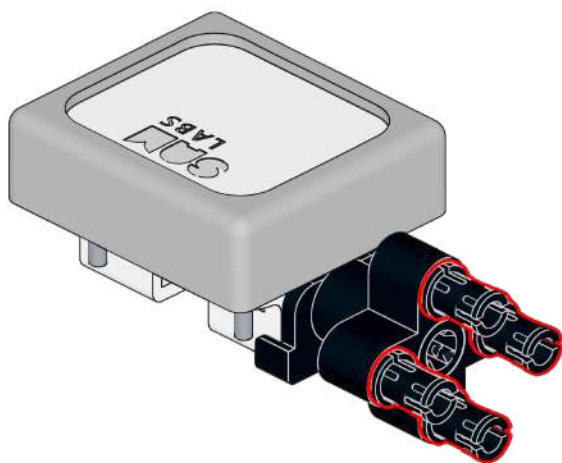
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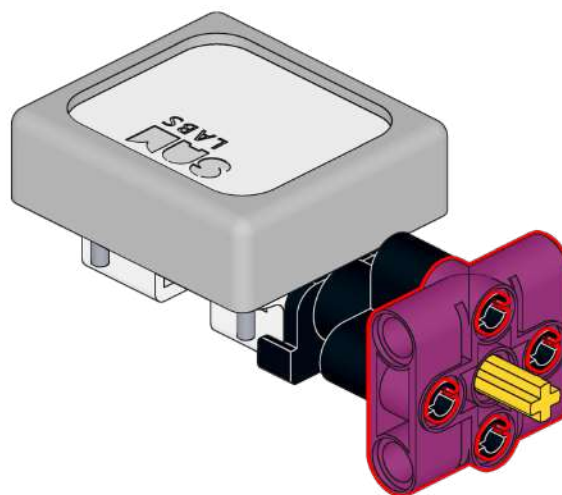
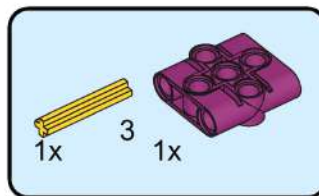
A. 競賽模型車製作 (機械人 B)

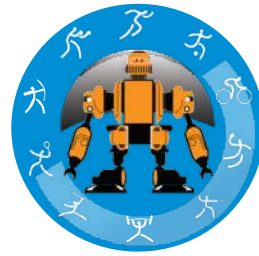


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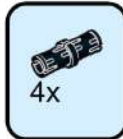
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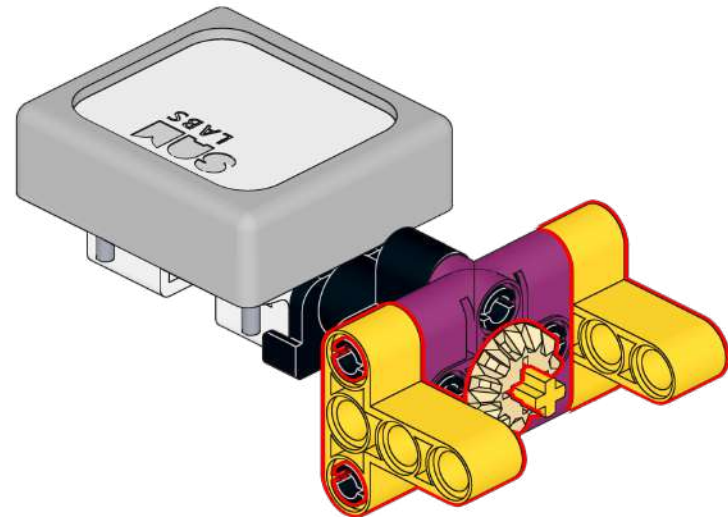
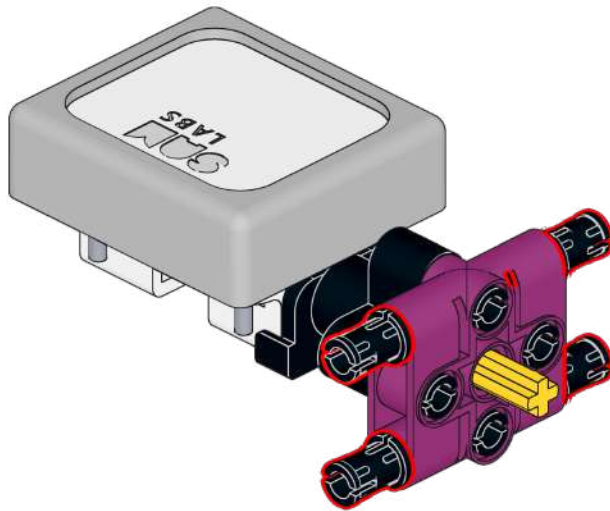
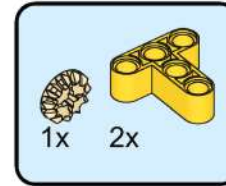


A. 競賽模型車製作 (機械人 B)

5



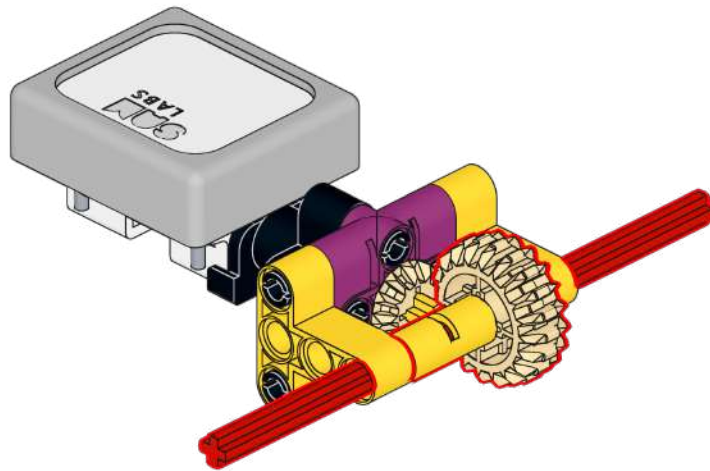
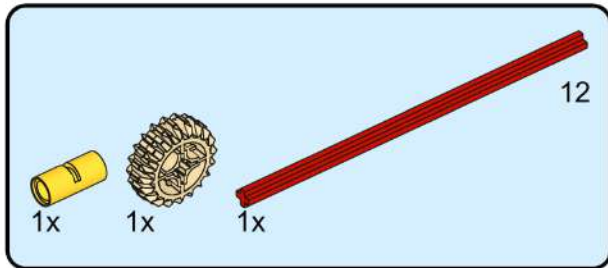
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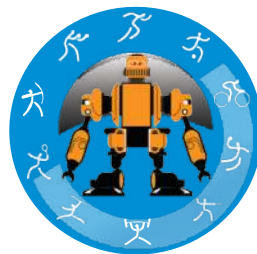


A. 競賽模型車製作 (機械人 B)

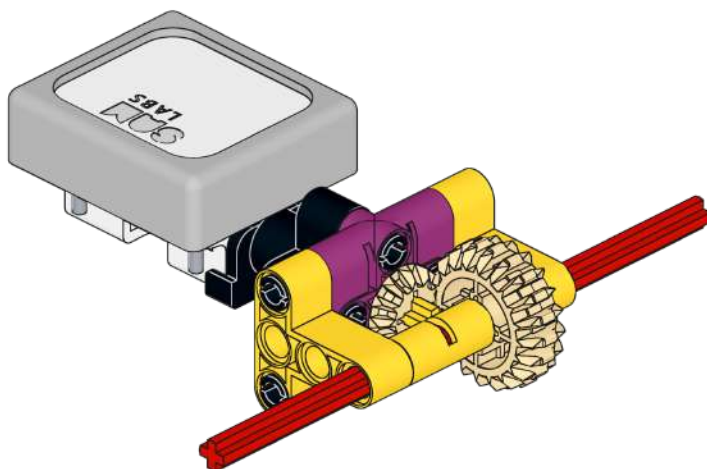
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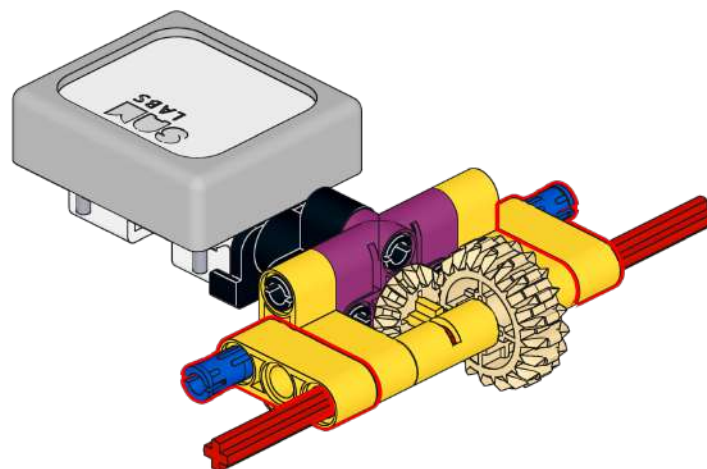
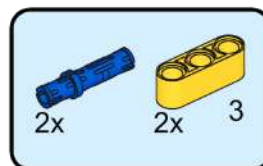
A. 競賽模型車製作 (機械人 B)

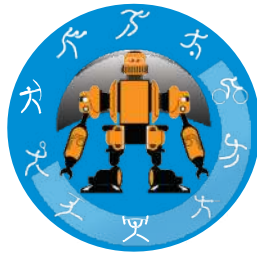


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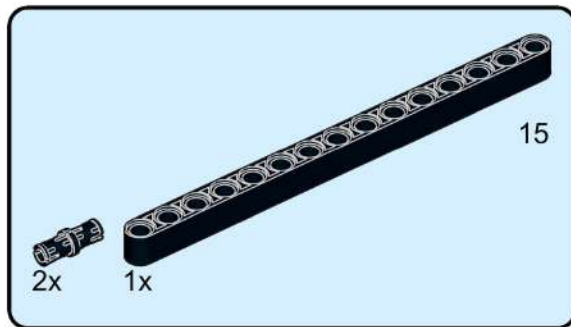
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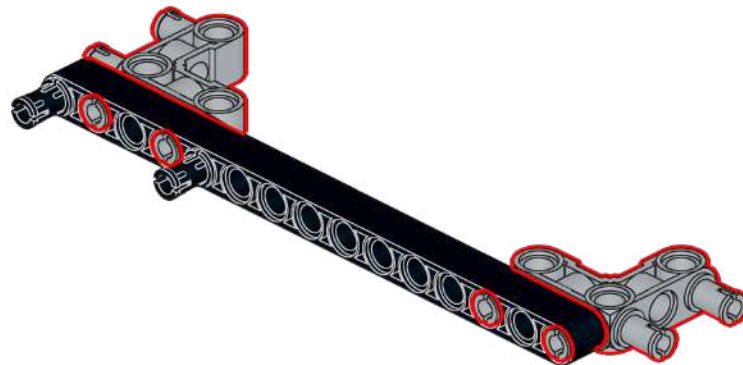
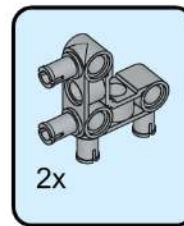


A. 競賽模型車製作 (機械人 B)

10



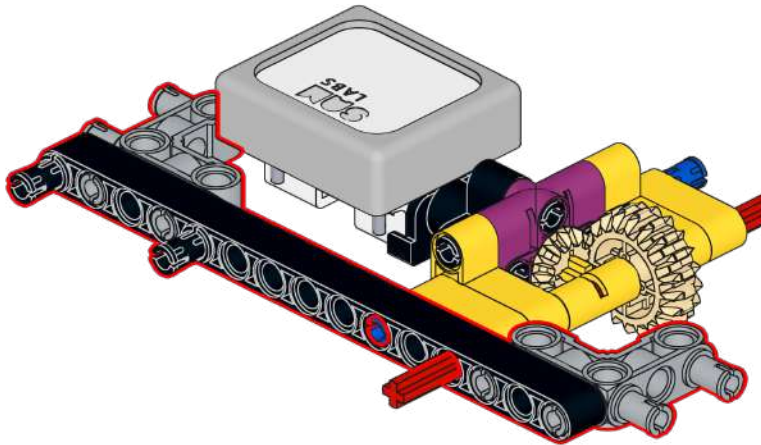
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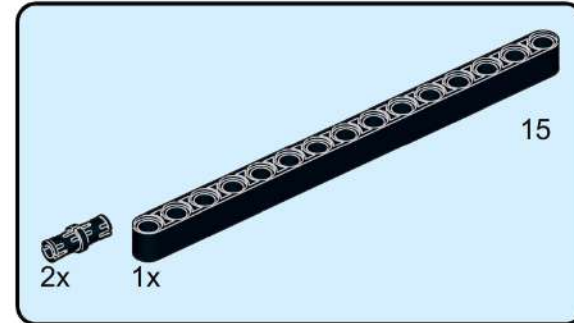


A. 競賽模型車製作 (機械人 B)

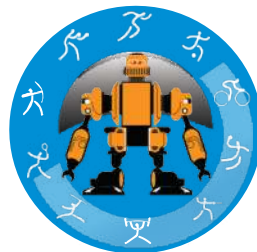
12



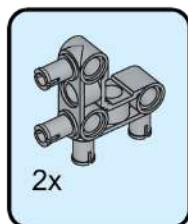
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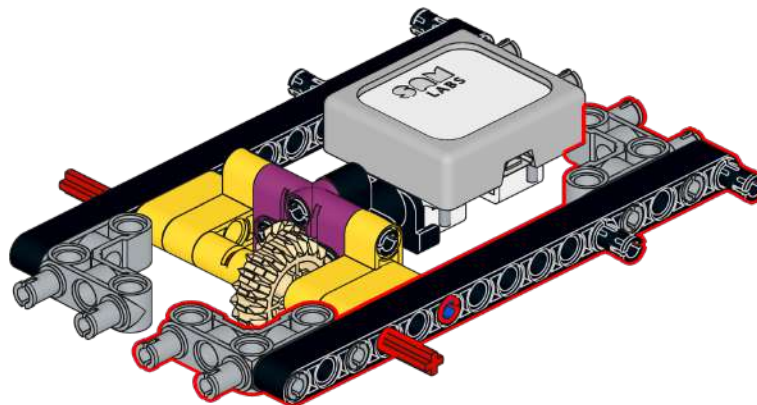
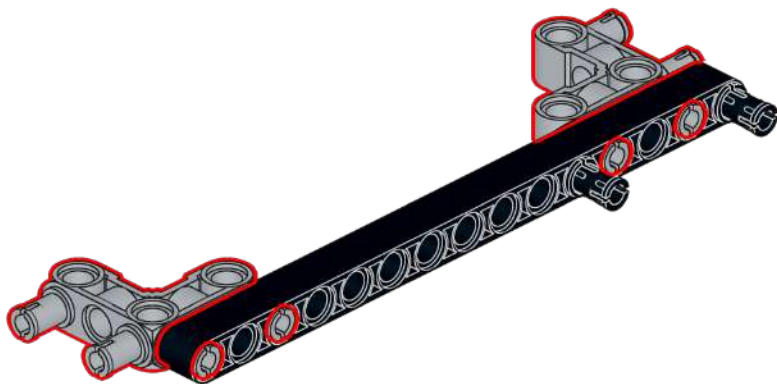
A. 競賽模型車製作 (機械人 B)

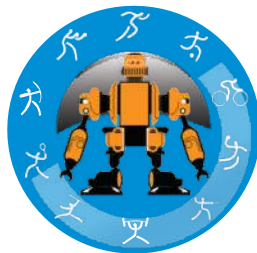


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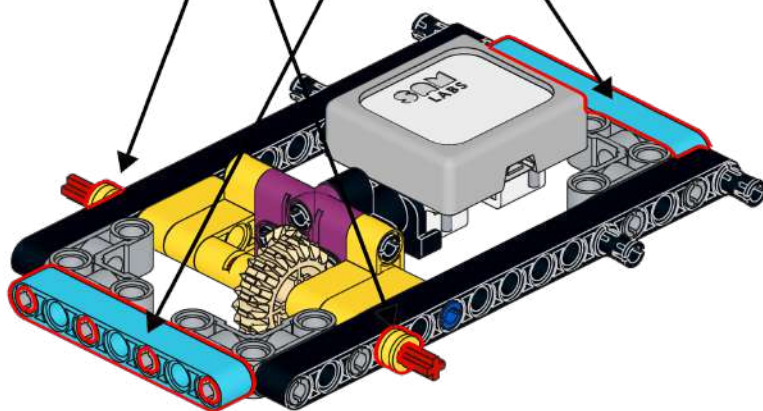
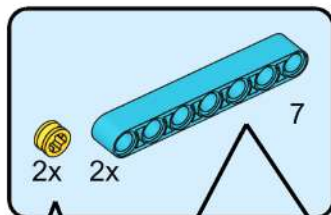
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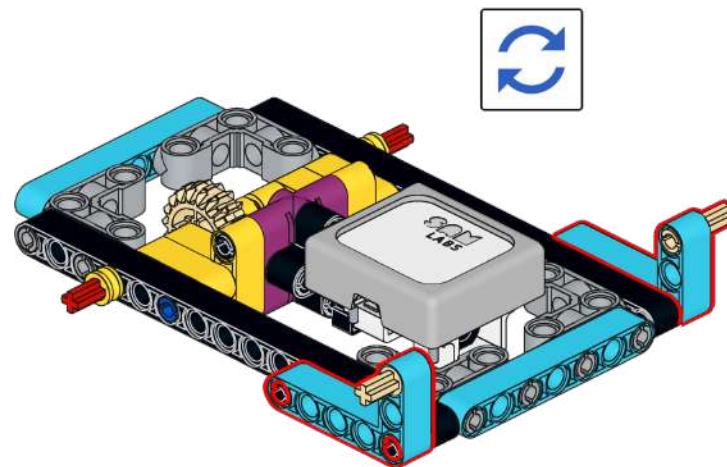
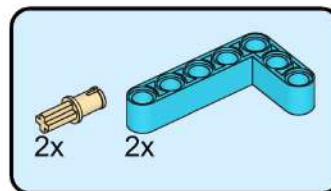


A. 競賽模型車製作 (機械人 B)

16



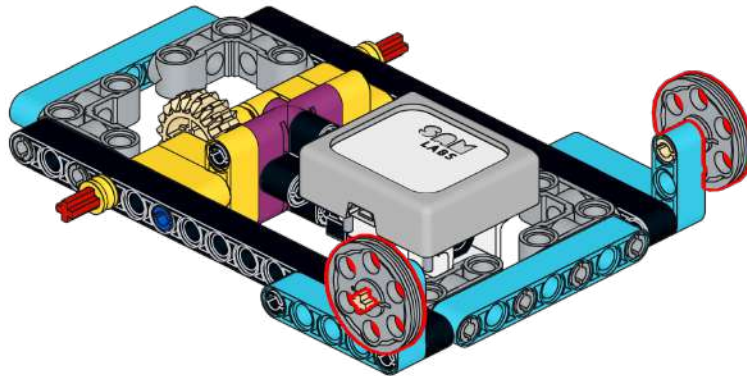
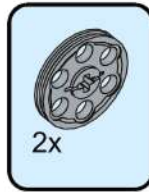
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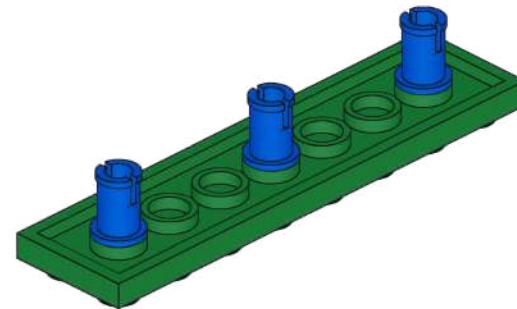
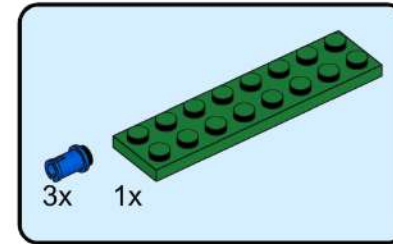


A. 競賽模型車製作 (機械人 B)

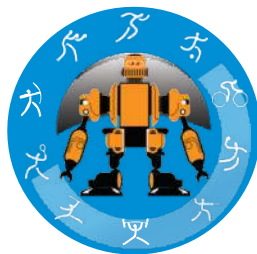
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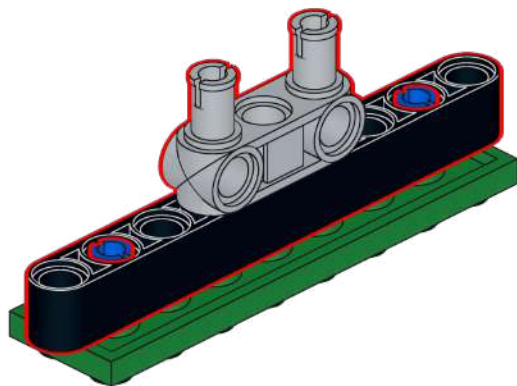
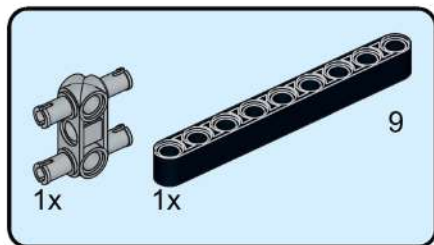
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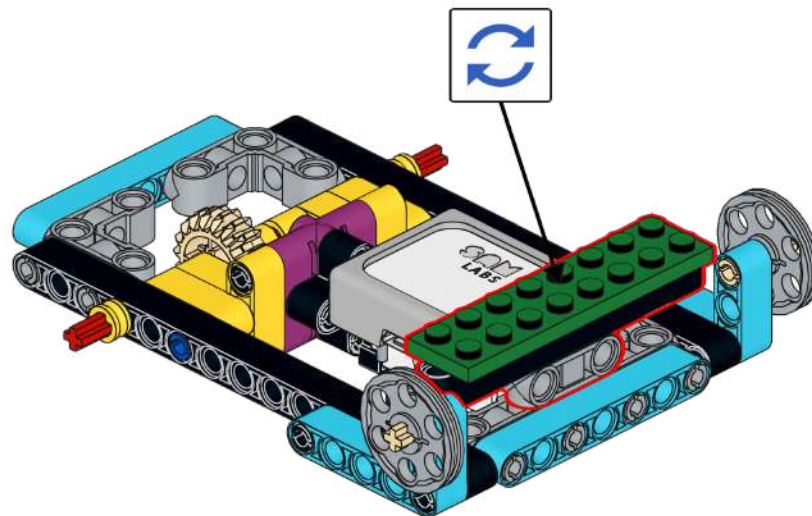
A. 競賽模型車製作 (機械人 B)



20



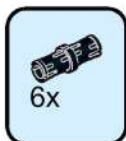
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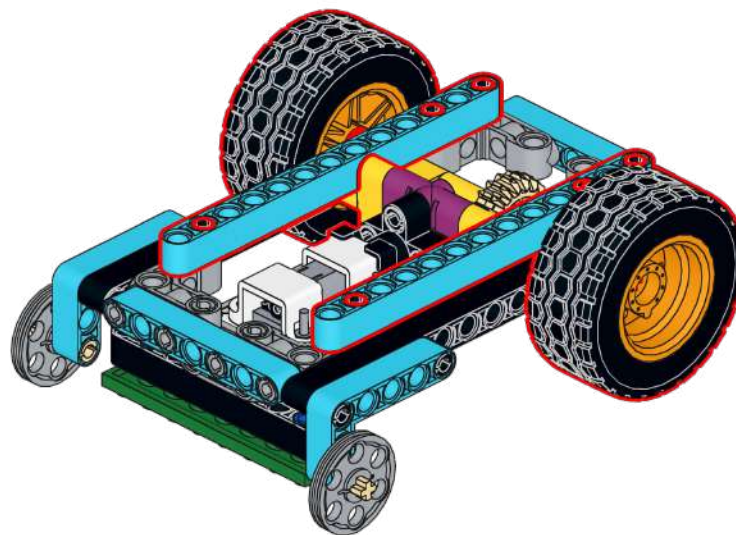
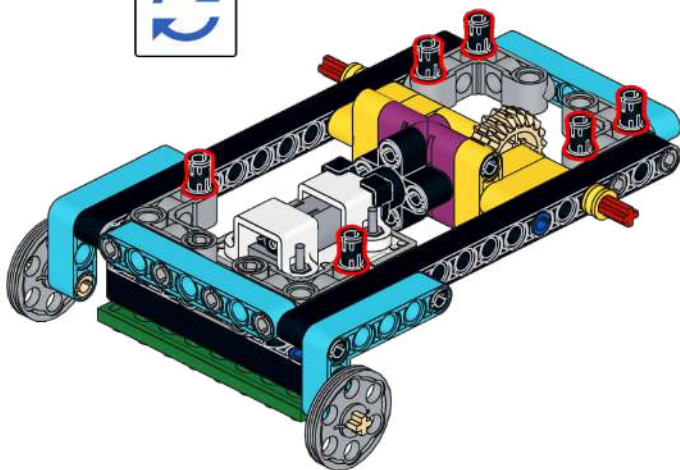
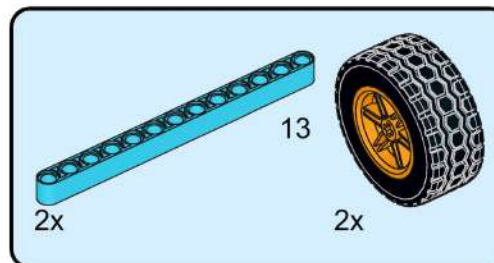
A. 競賽模型車製作 (機械人 B)



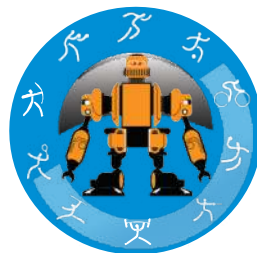
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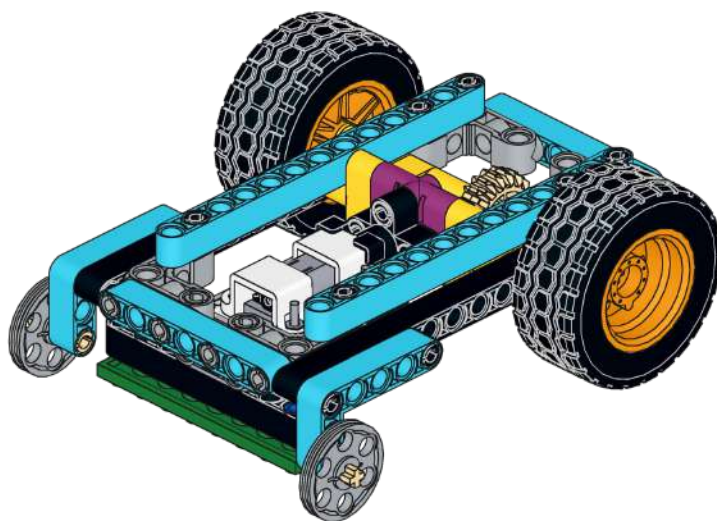
23



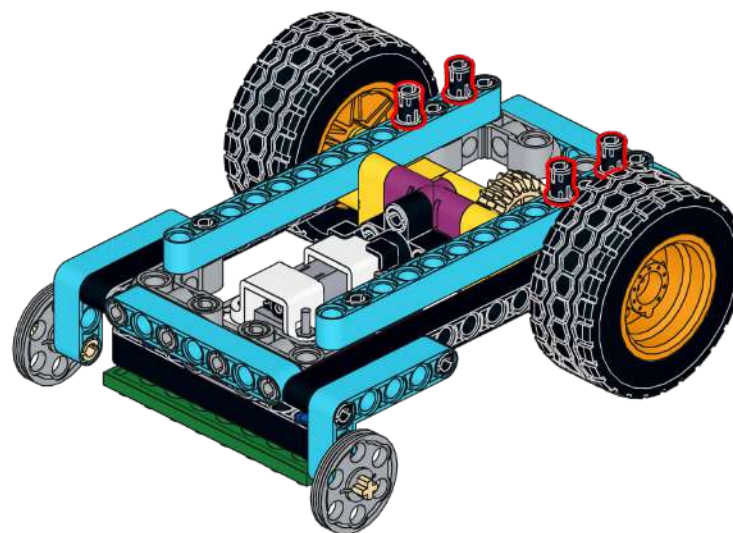
A. 競賽模型車製作 (機械人 B)



24



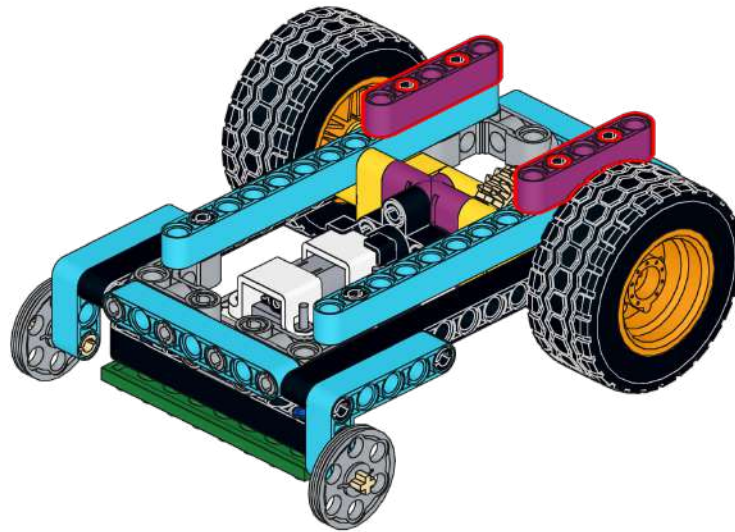
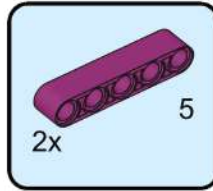
25





A. 競賽模型車製作 (機械人 B)

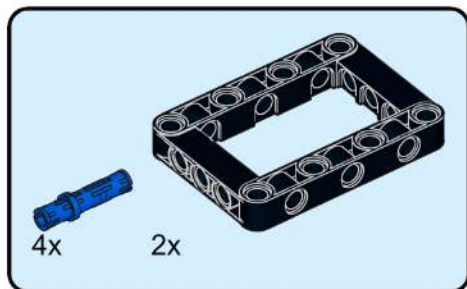
26



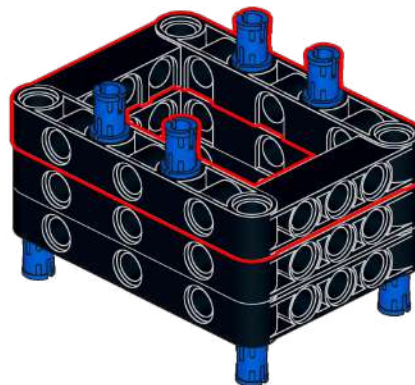
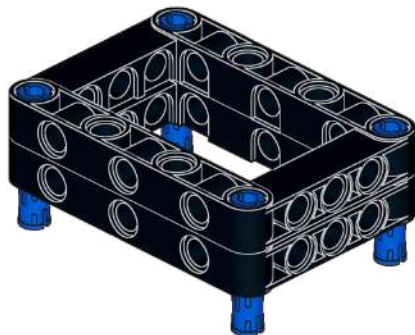
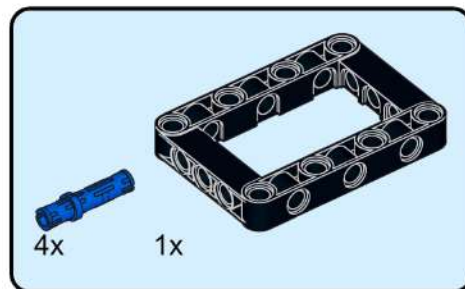
A. 競賽模型車製作 (機械人 B)



27



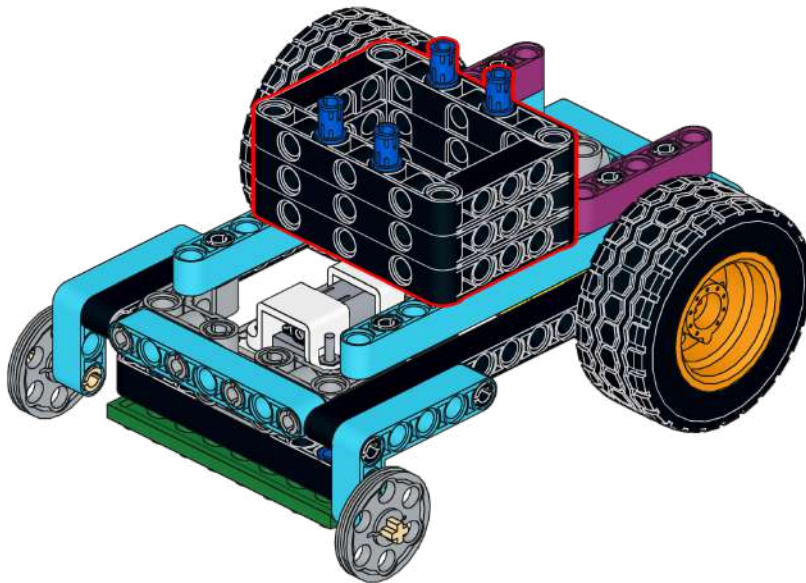
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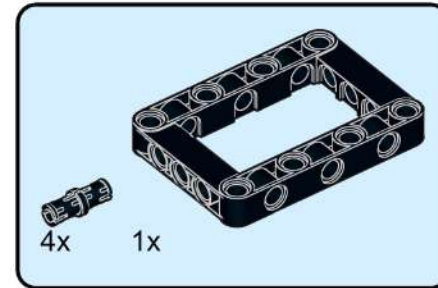


A. 競賽模型車製作 (機械人 B)

29



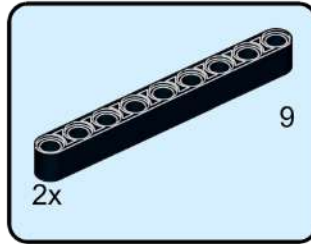
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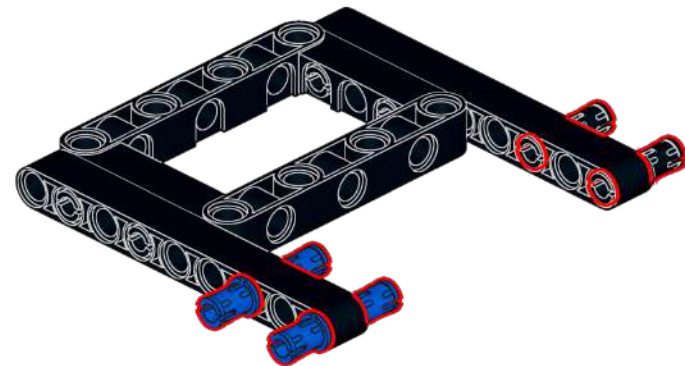
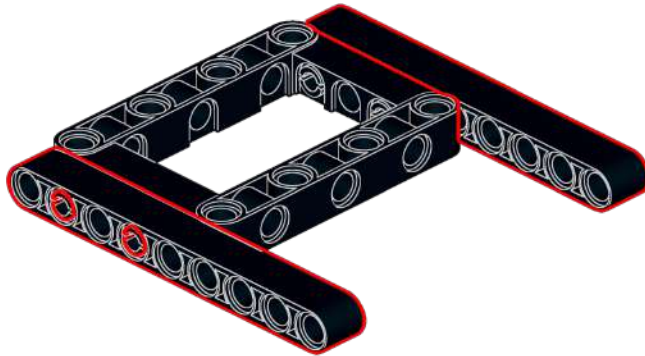
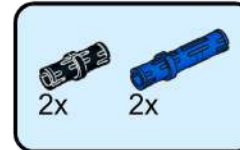


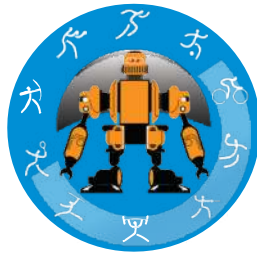
A. 競賽模型車製作 (機械人 B)

31



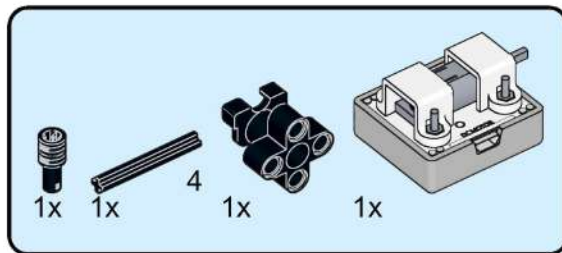
32



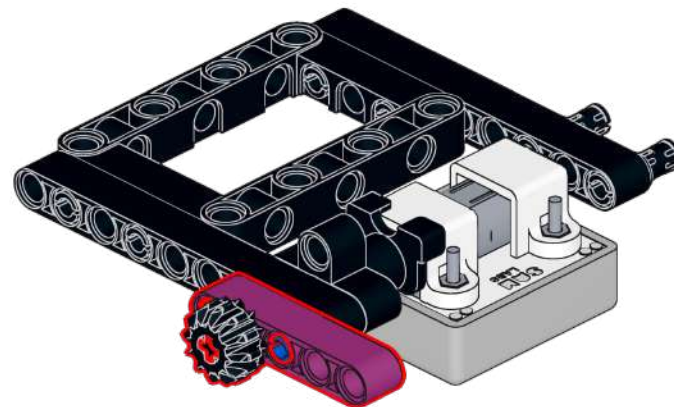
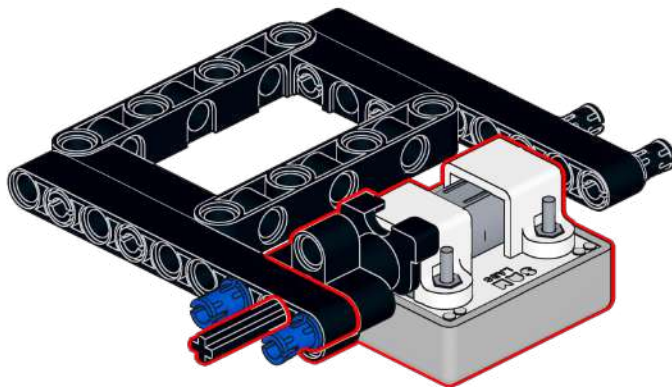
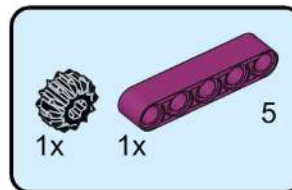


A. 競賽模型車製作 (機械人 B)

33



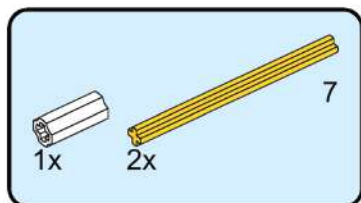
34



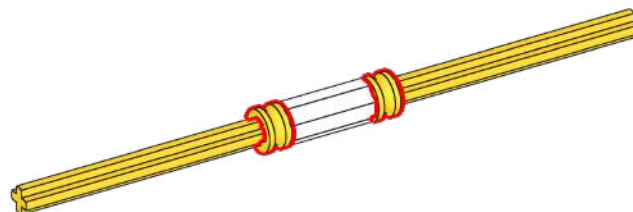
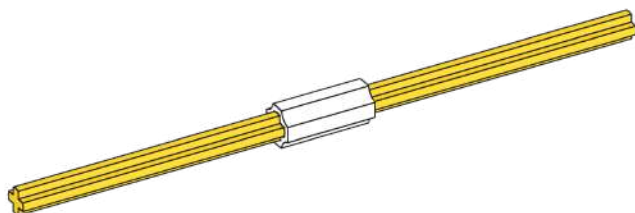
A. 競賽模型車製作 (機械人 B)



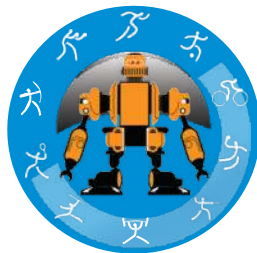
35



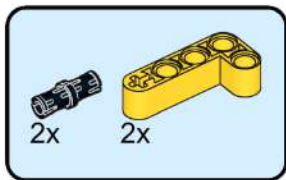
36



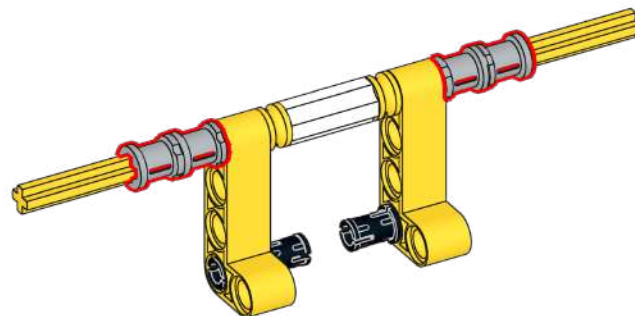
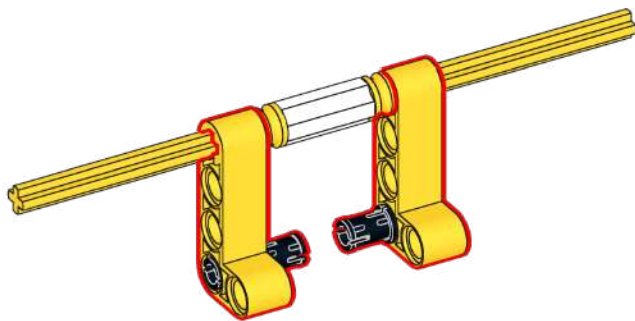
A. 競賽模型車製作 (機械人 B)

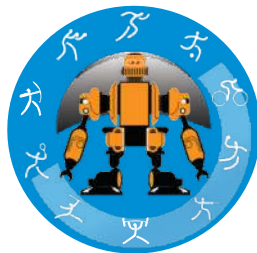


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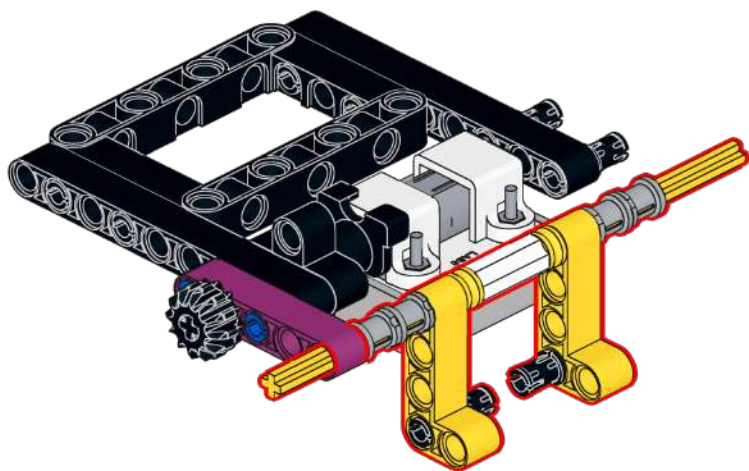
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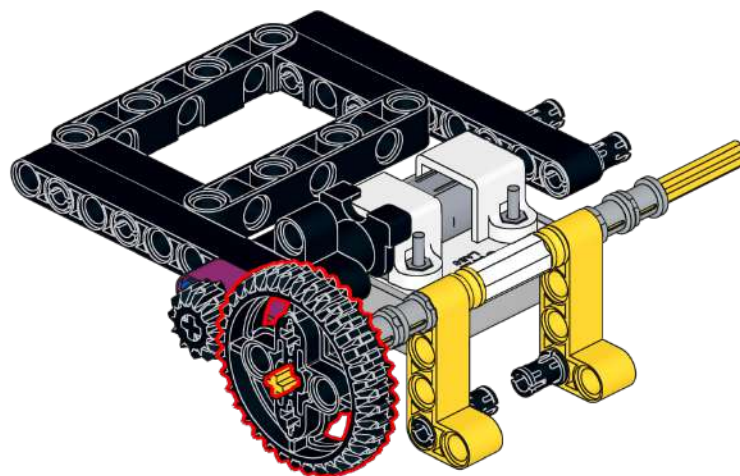


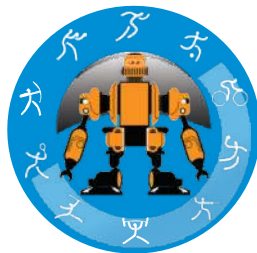
A. 競賽模型車製作 (機械人 B)

39



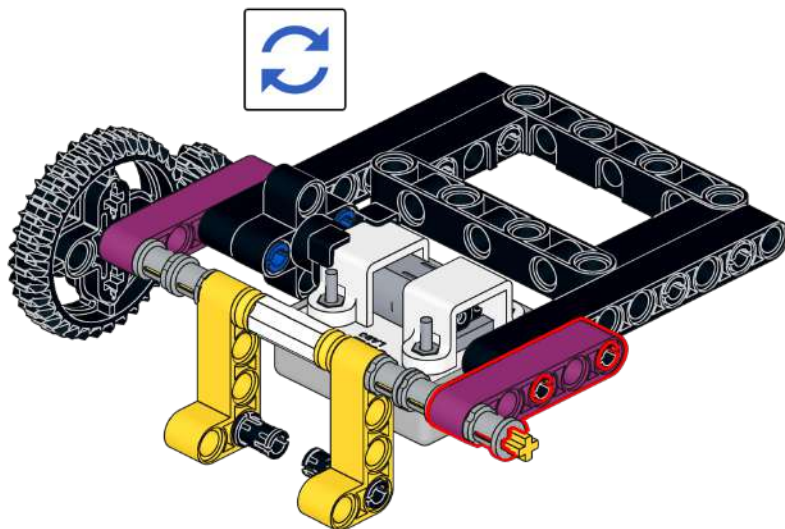
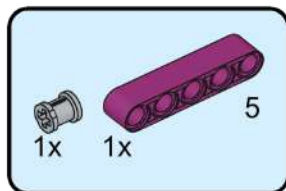
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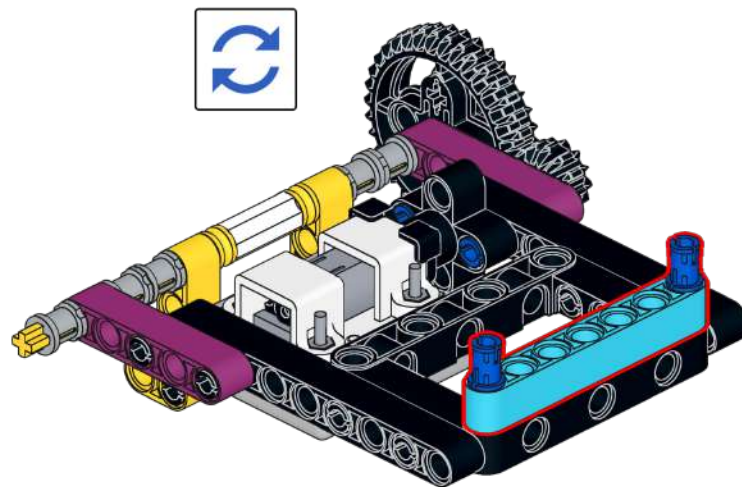
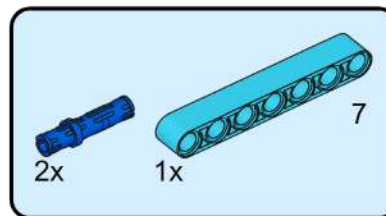


A. 競賽模型車製作 (機械人 B)

41



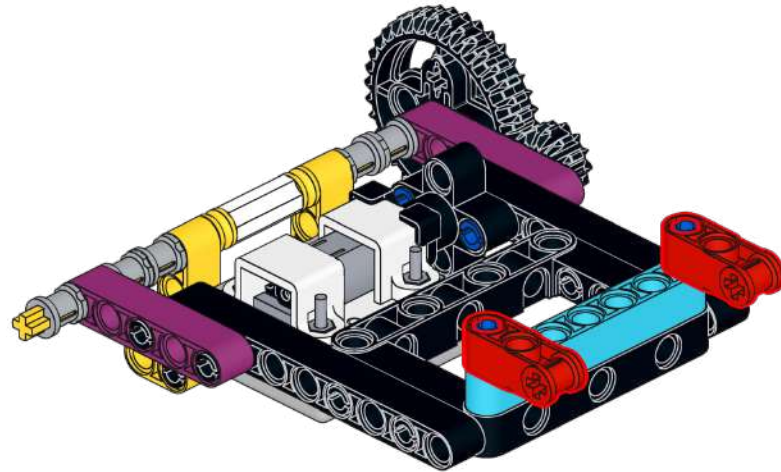
42

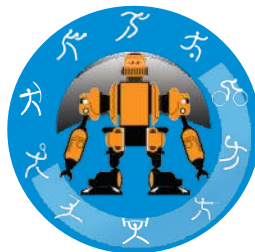




A. 競賽模型車製作 (機械人 B)

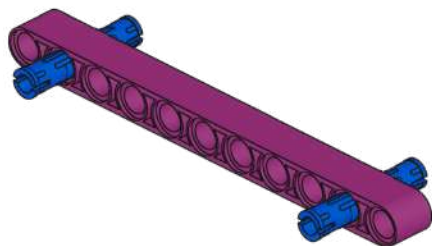
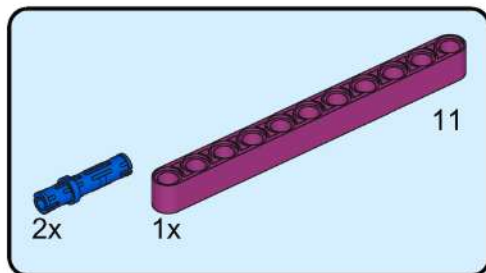
43





A. 競賽模型車製作 (機械人 B)

44



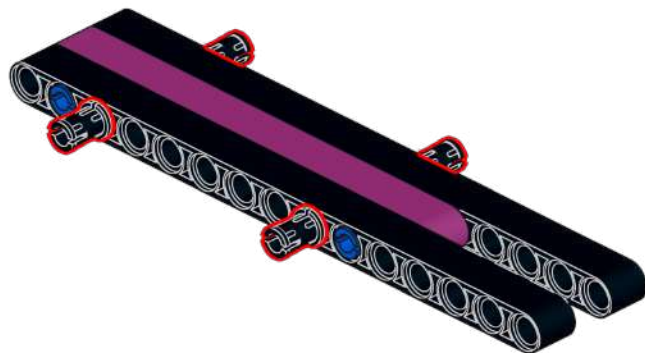
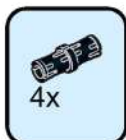
45



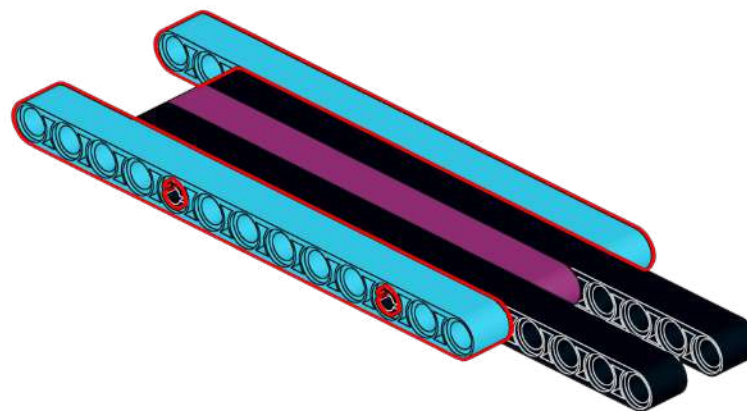
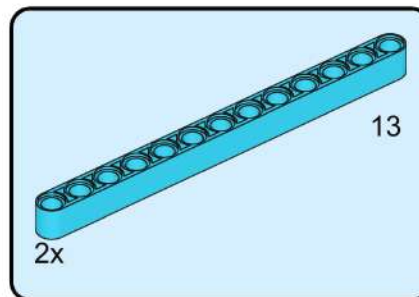
A. 競賽模型車製作 (機械人 B)



46



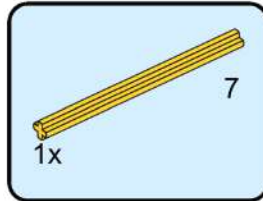
47



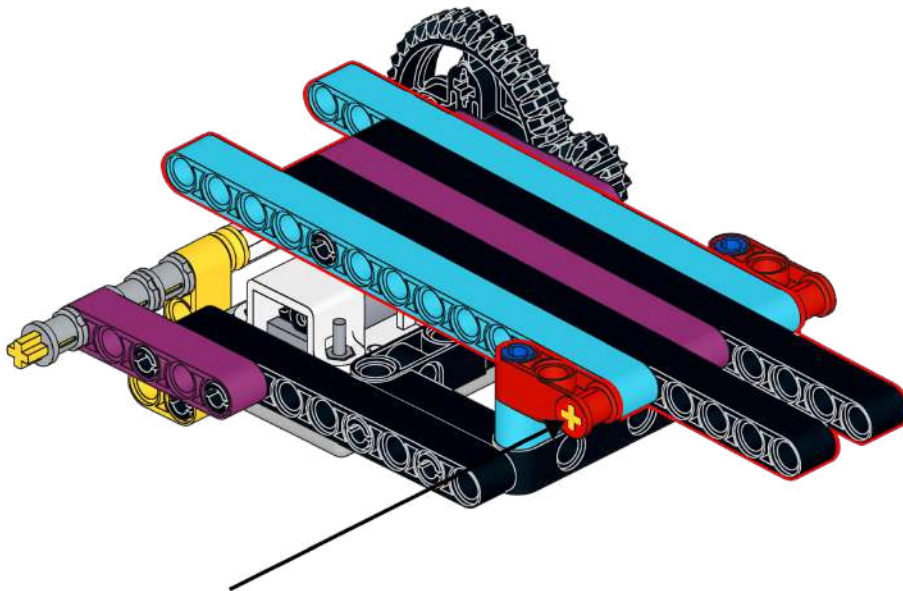
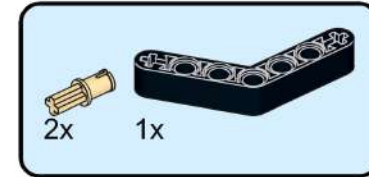


A. 競賽模型車製作 (機械人 B)

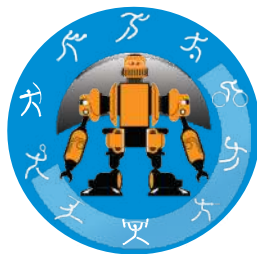
48



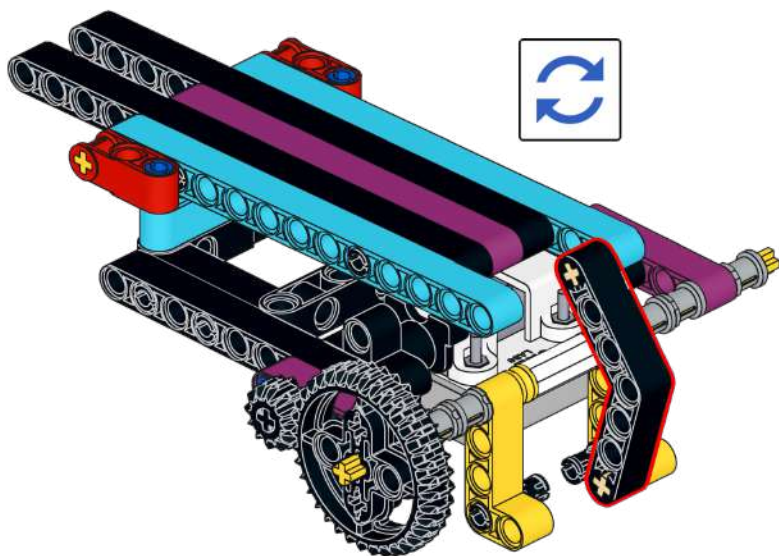
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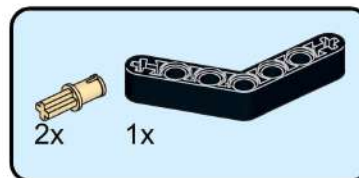
A. 競賽模型車製作 (機械人 B)



50



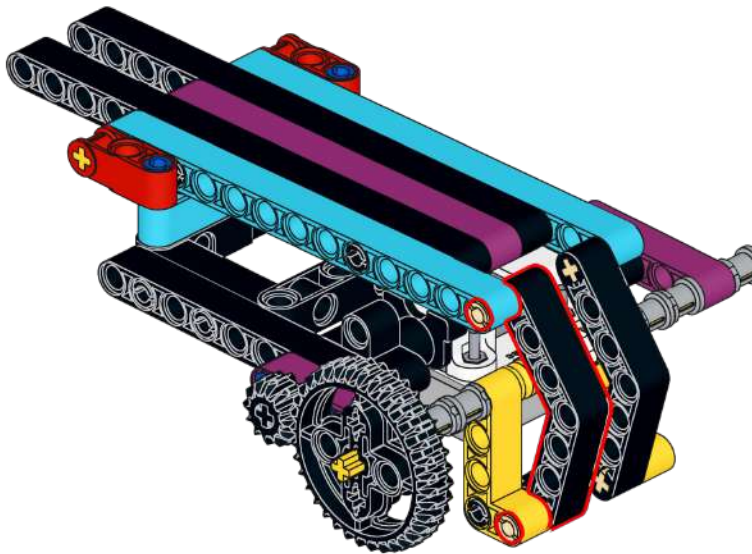
51



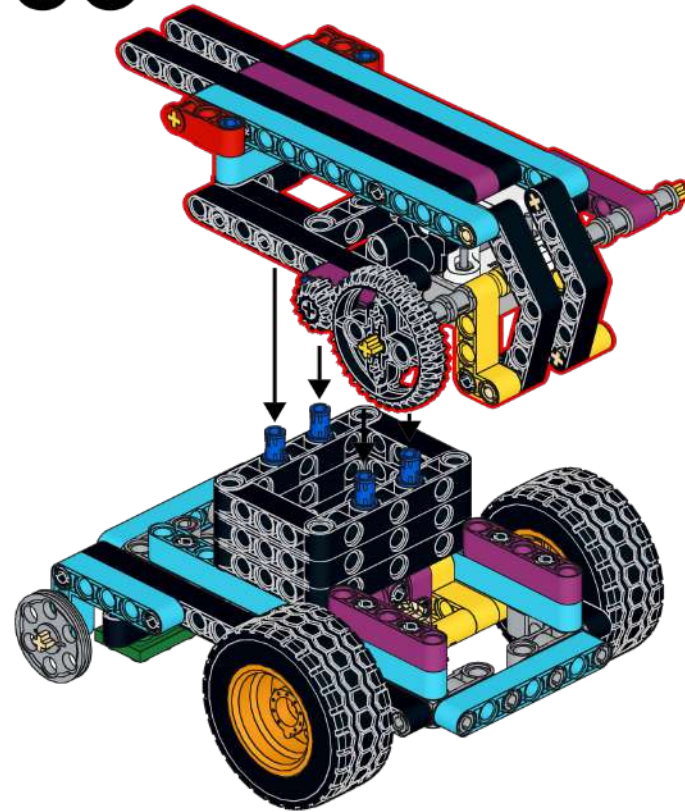


A. 競賽模型車製作 (機械人 B)

52



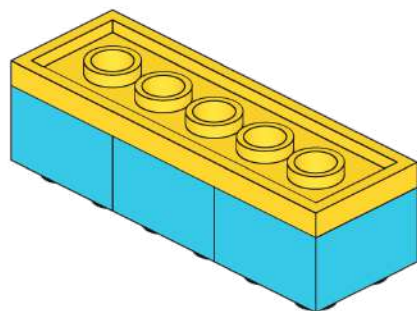
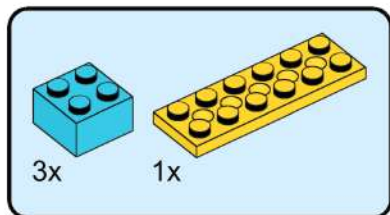
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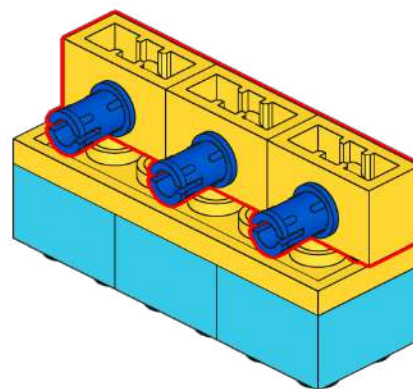
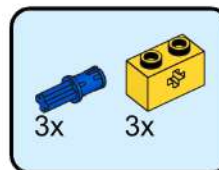
A. 競賽模型車製作 (機械人 B)

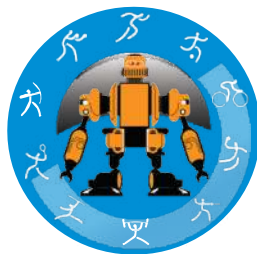


54



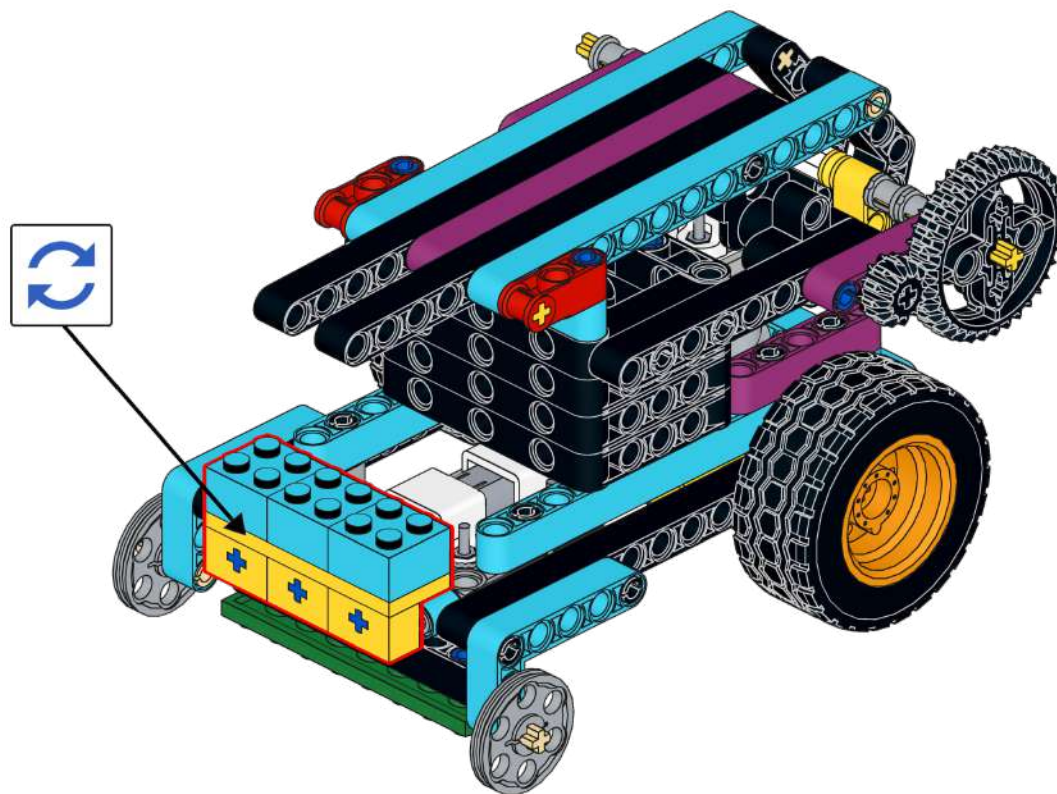
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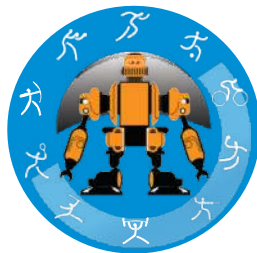




A. 競賽模型車製作 (機械人 B)

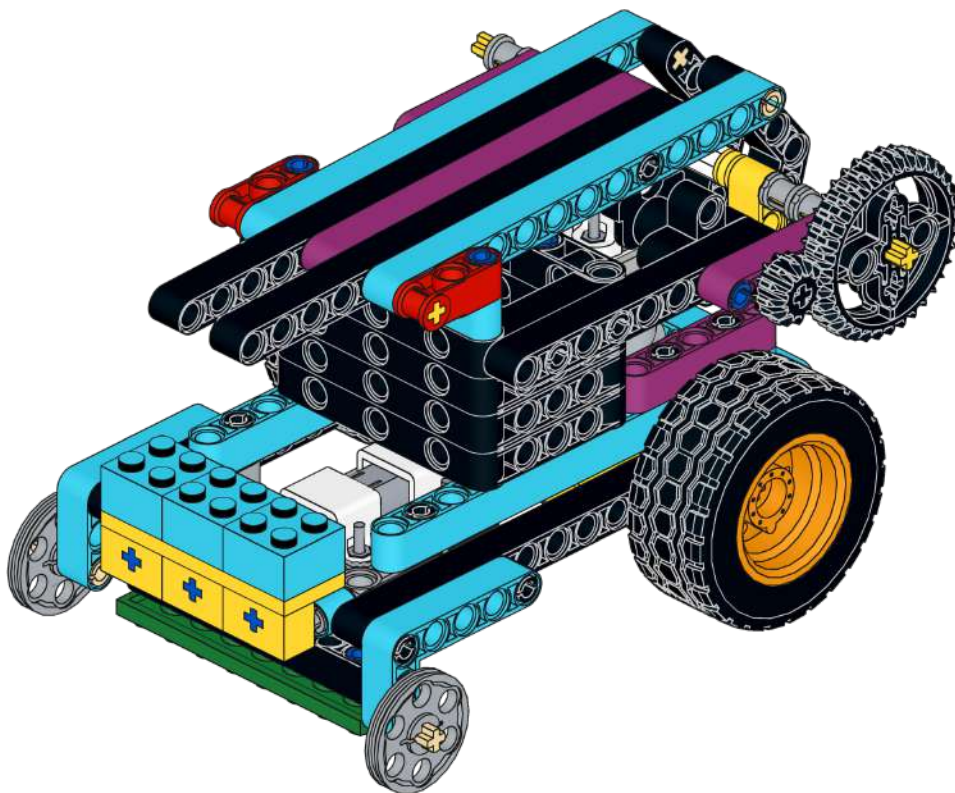
56

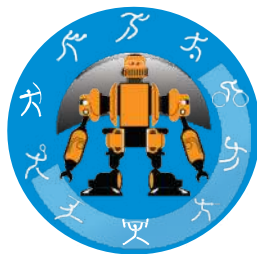




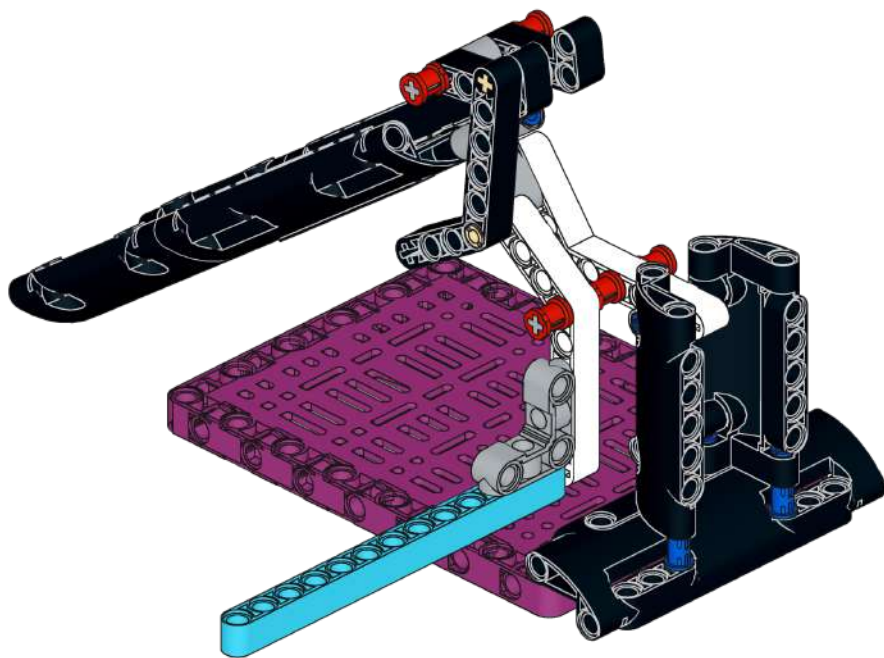
A. 競賽模型車製作 (機械人 B)

57

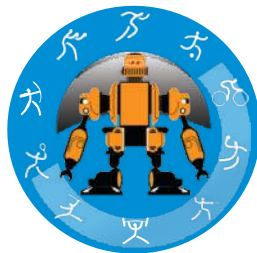




B. 場地設置製作

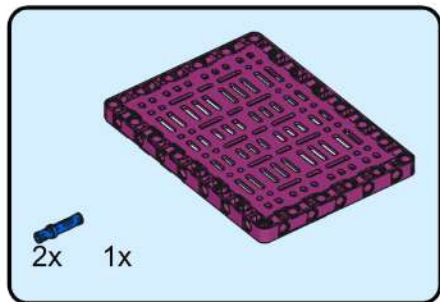


場地設置製作 (鋼架雪車設置)

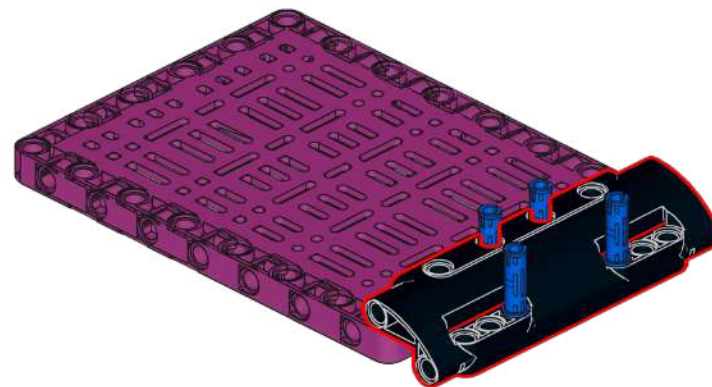
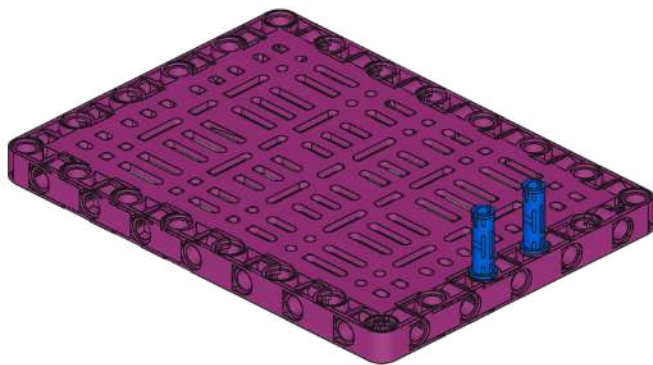
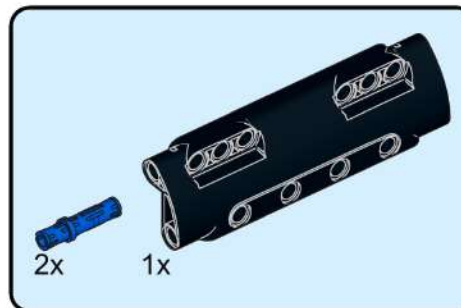


B. 場地設置製作

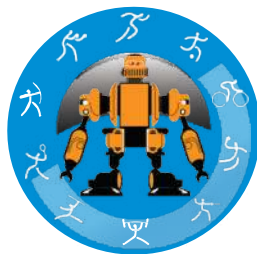
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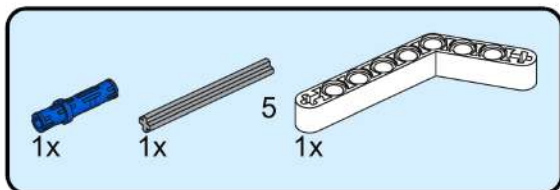
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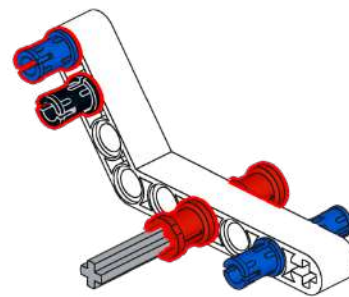
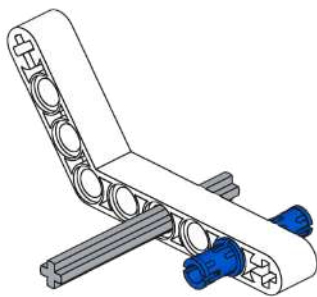
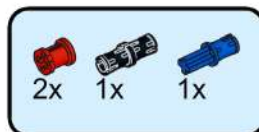
B. 場地設置製作



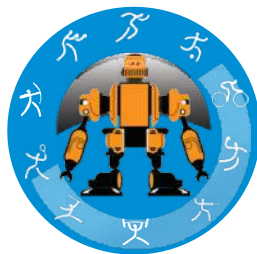
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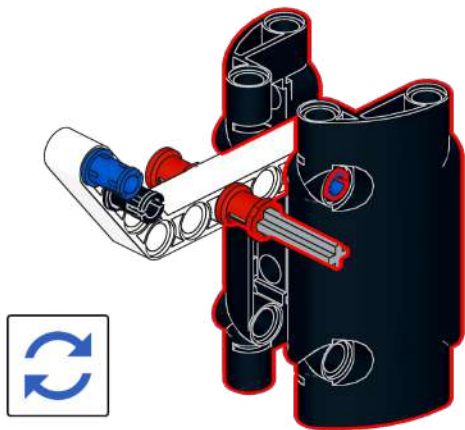
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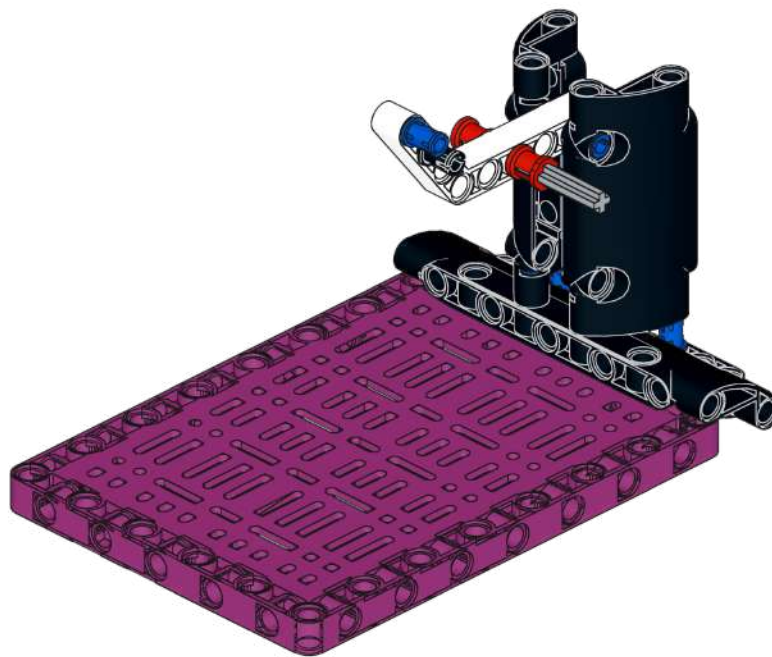
B. 場地設置製作



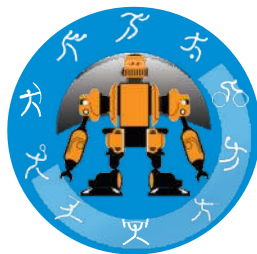
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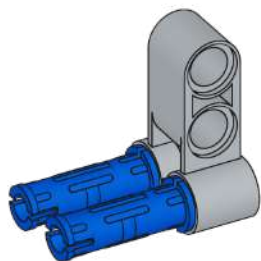
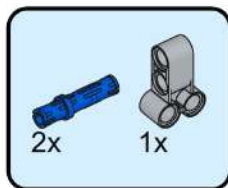
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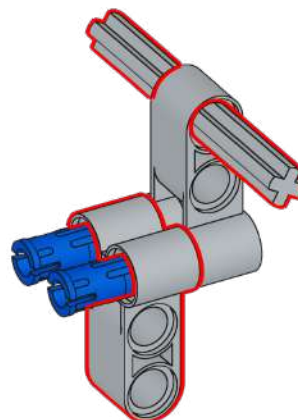
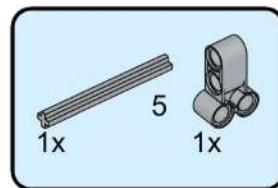
B. 場地設置製作



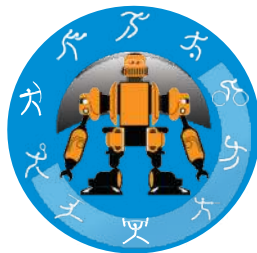
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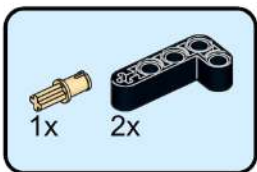
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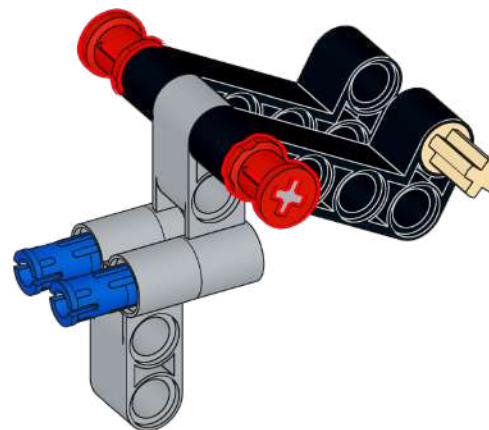
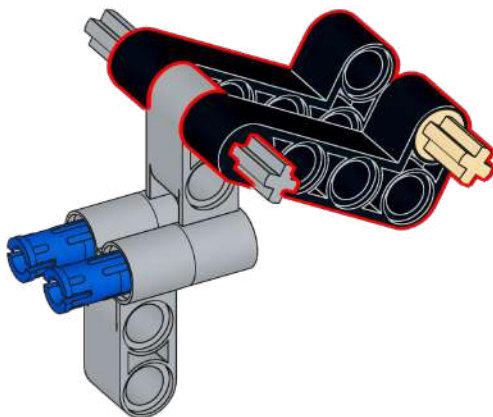
B. 場地設置製作

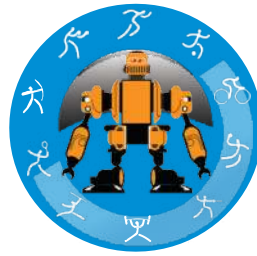


9



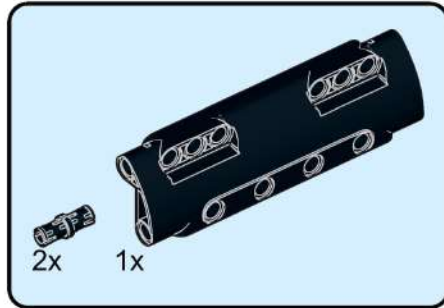
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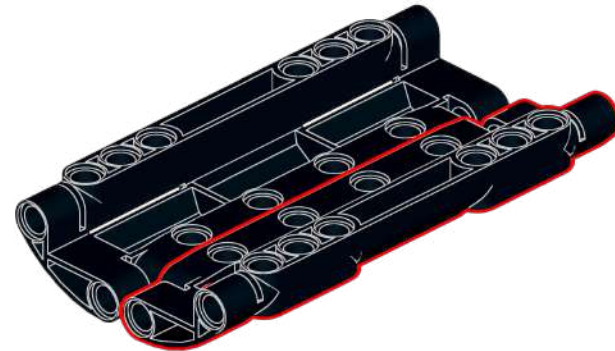
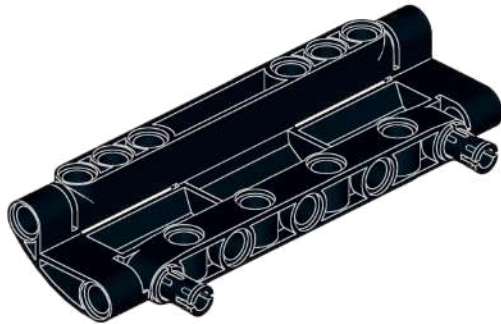
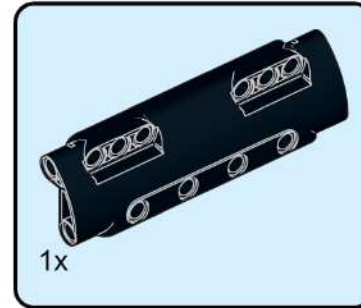


B. 場地設置製作

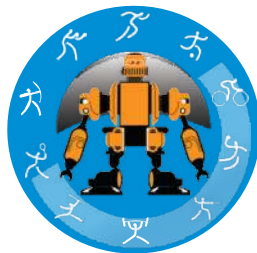
11



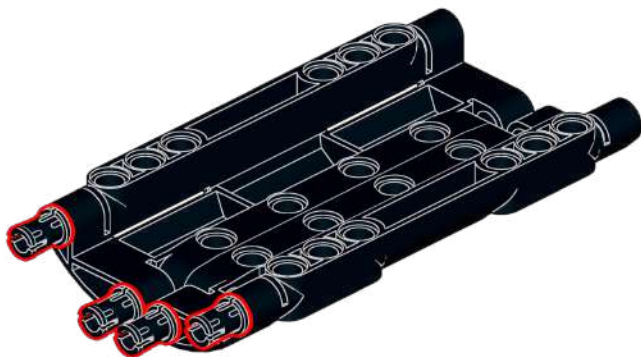
12



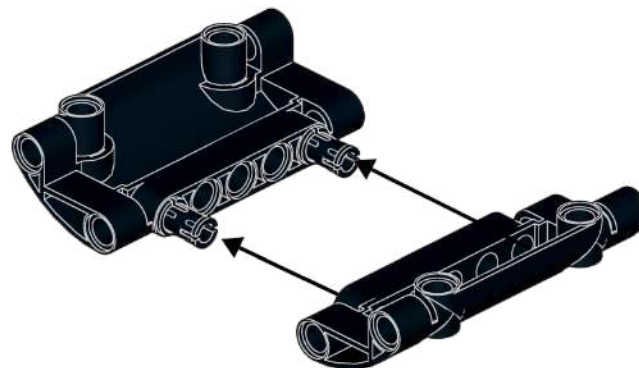
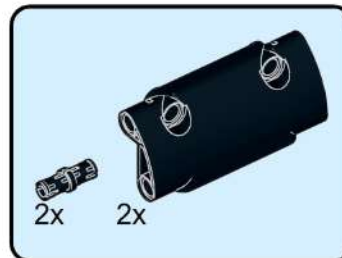
B. 場地設置製作



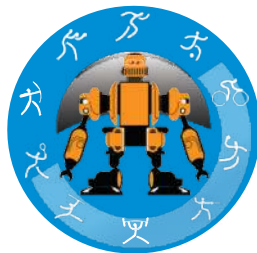
13



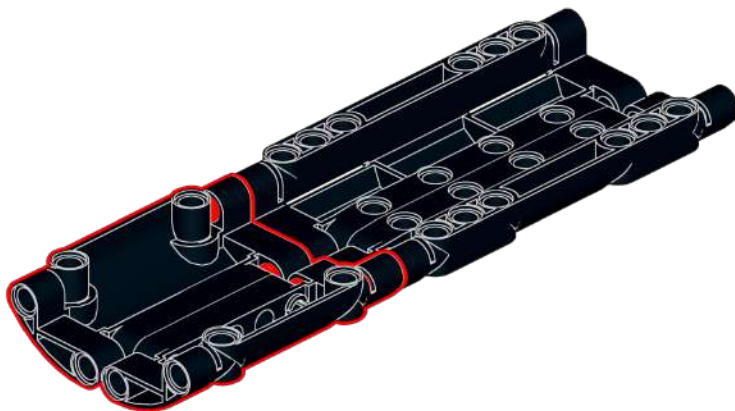
14



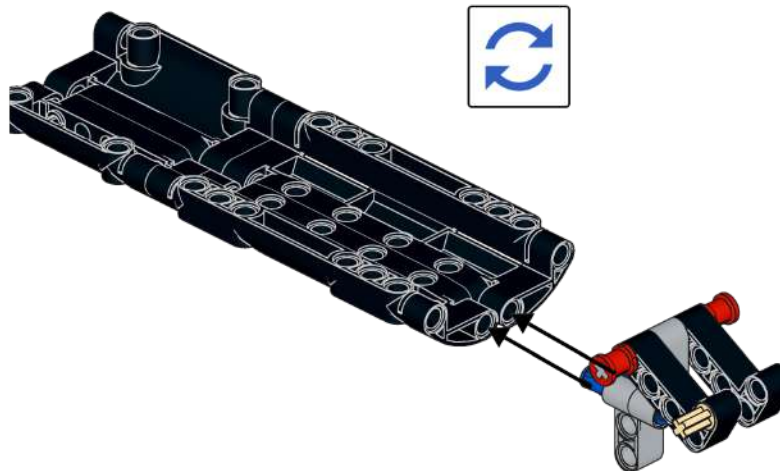
B. 場地設置製作

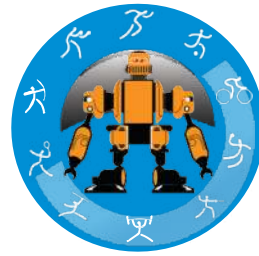


15



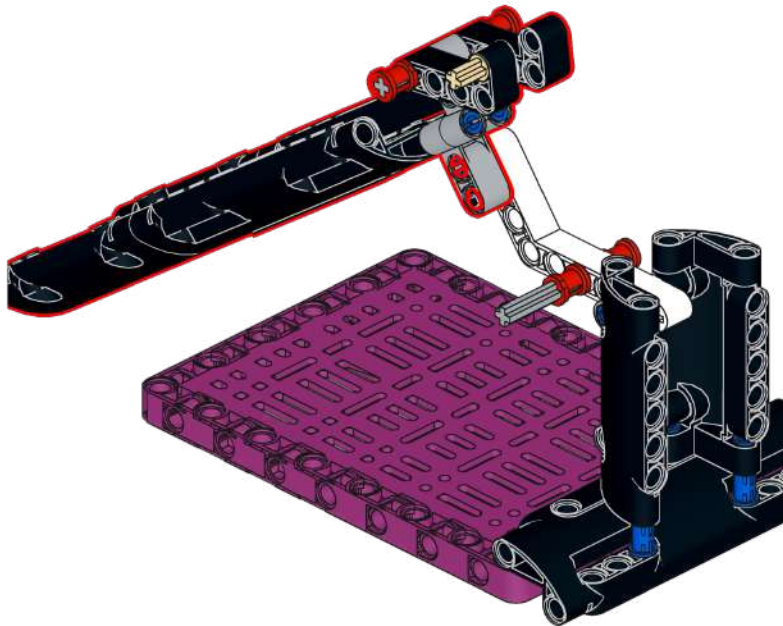
16



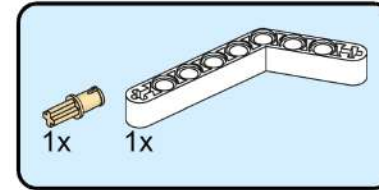


B. 場地設置製作

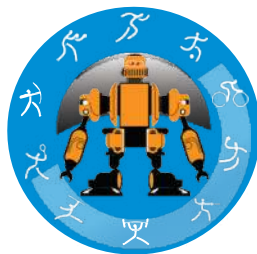
17



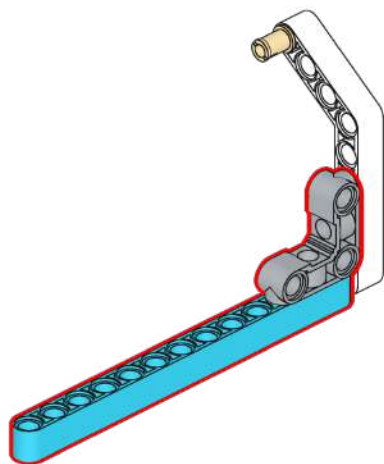
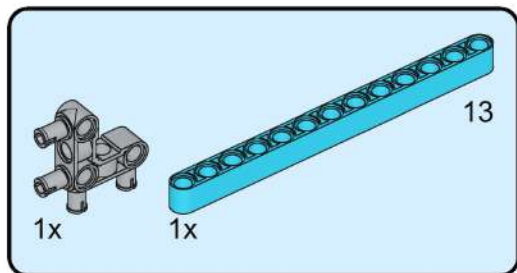
18



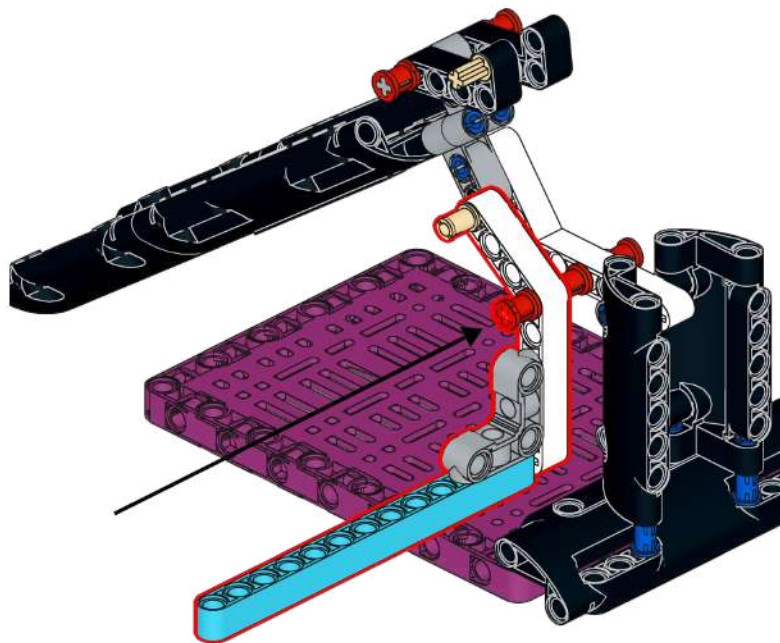
B. 場地設置製作

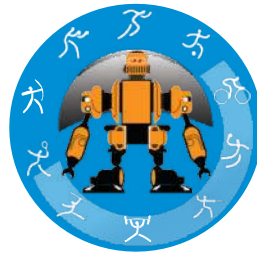


19



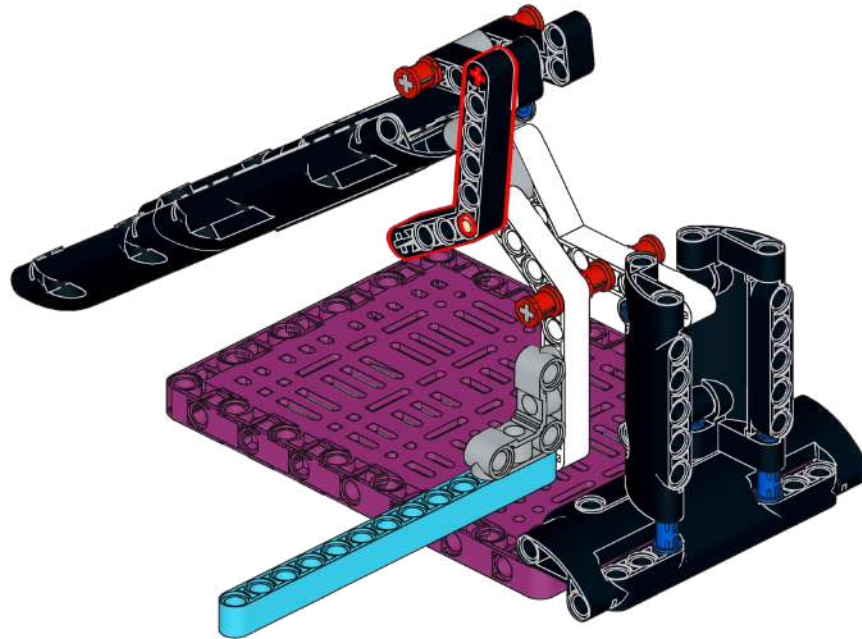
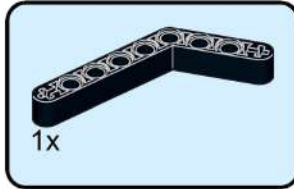
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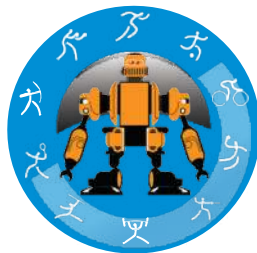




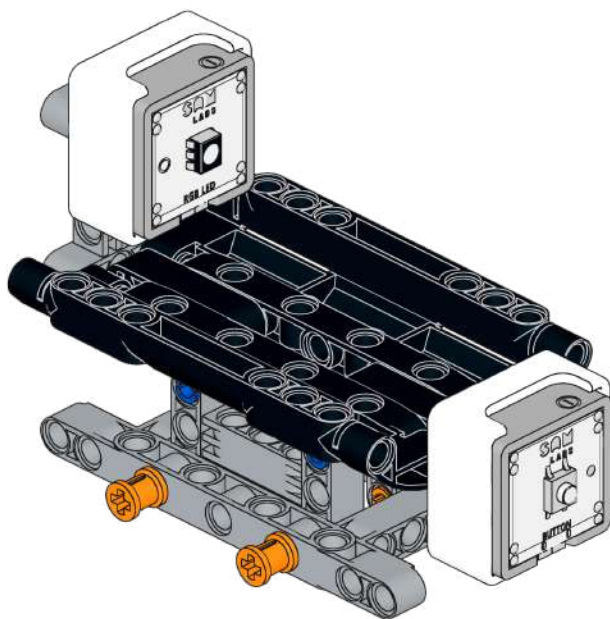
B. 場地設置製作

21



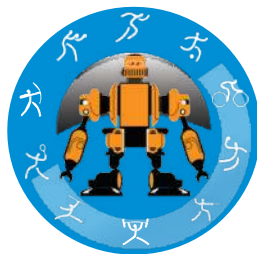


B. 場地設置製作

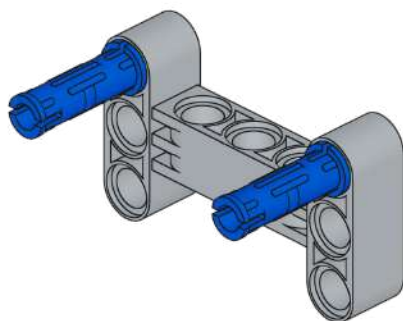
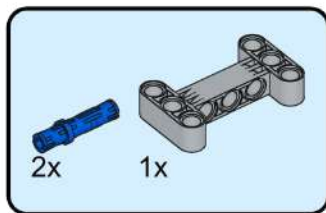


場地設置製作 (跳台滑雪設置)

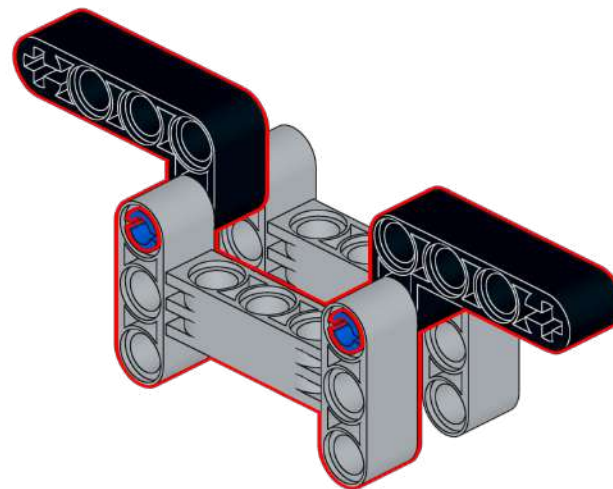
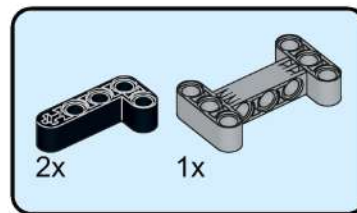
B. 場地設置製作



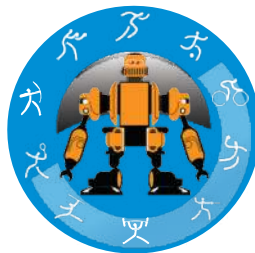
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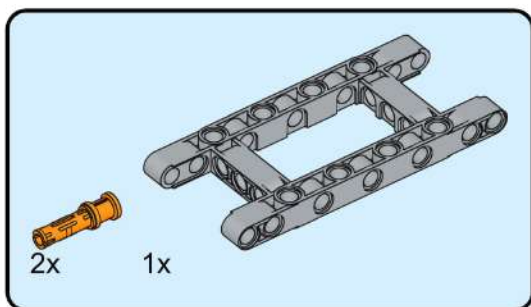
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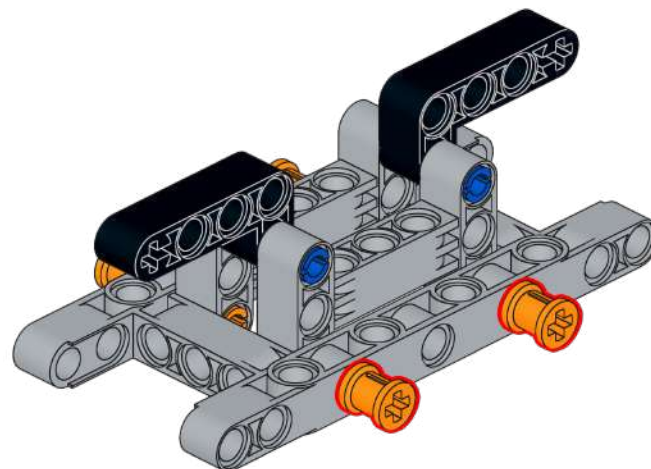
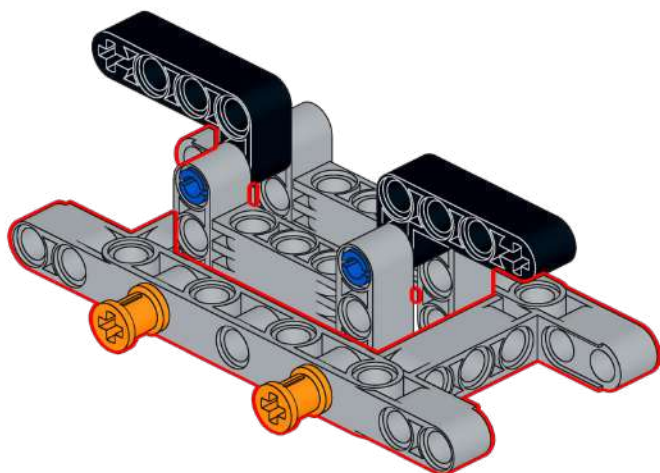
B. 場地設置製作



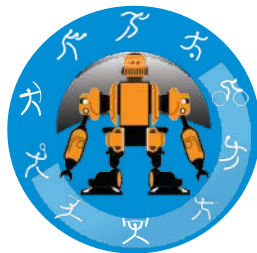
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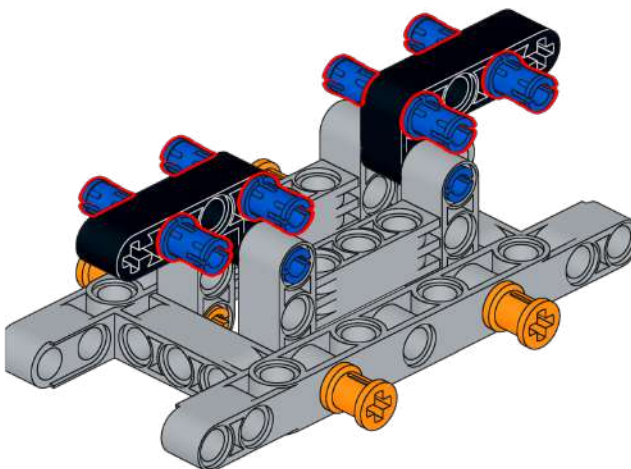
4



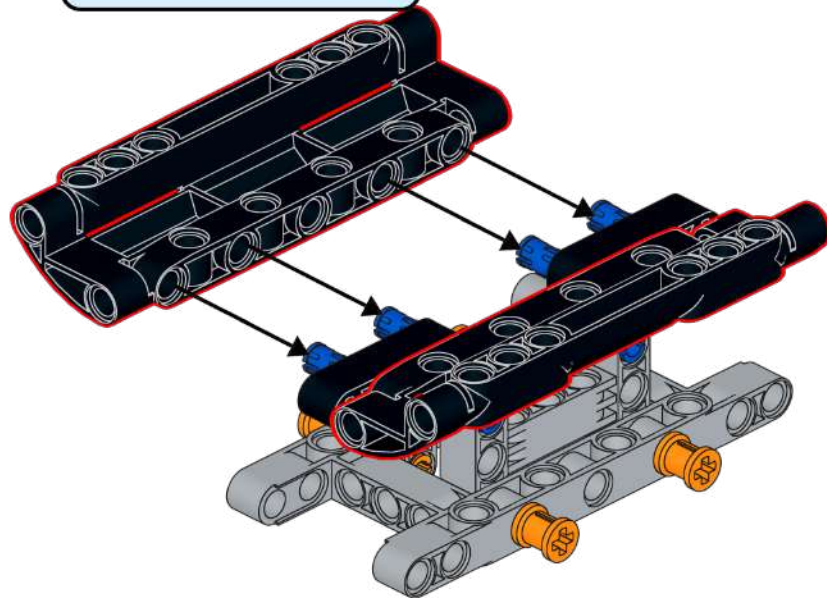
B. 場地設置製作



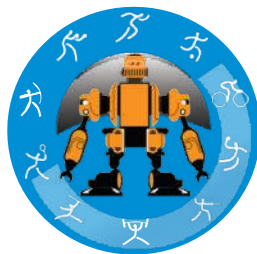
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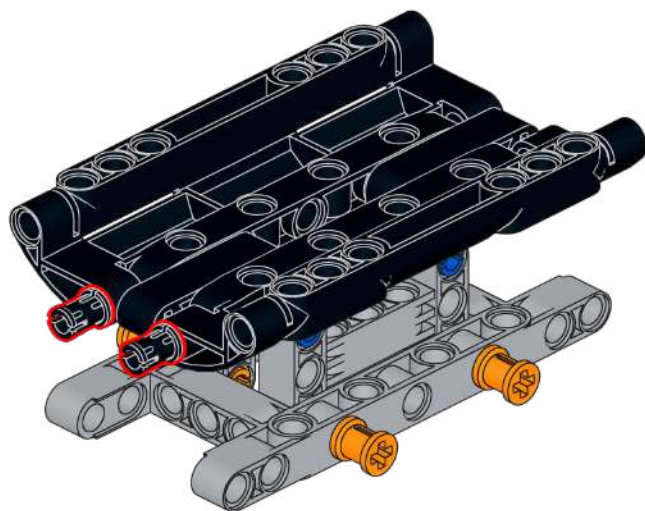
6



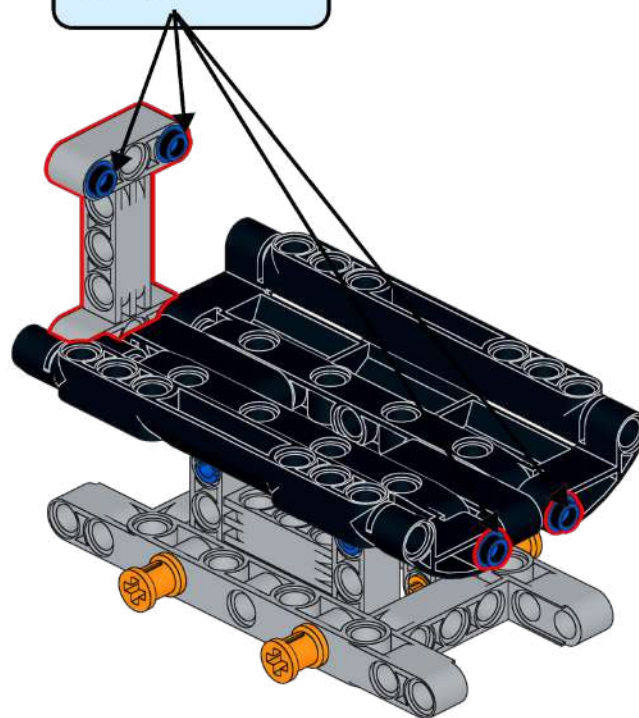
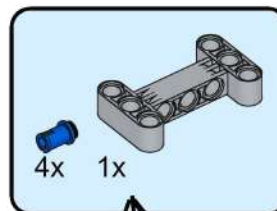
B. 場地設置製作

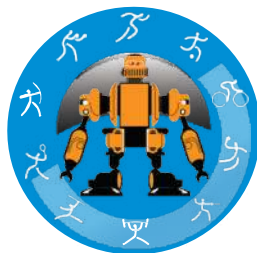


7



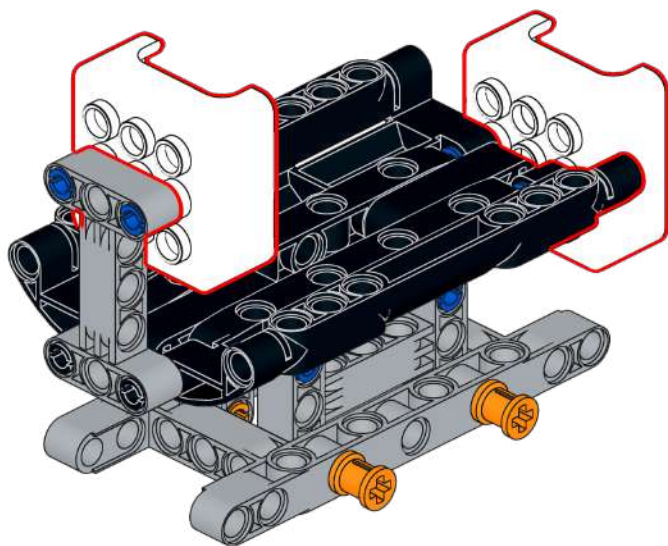
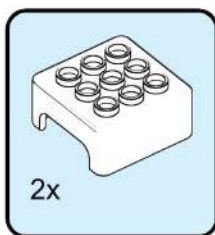
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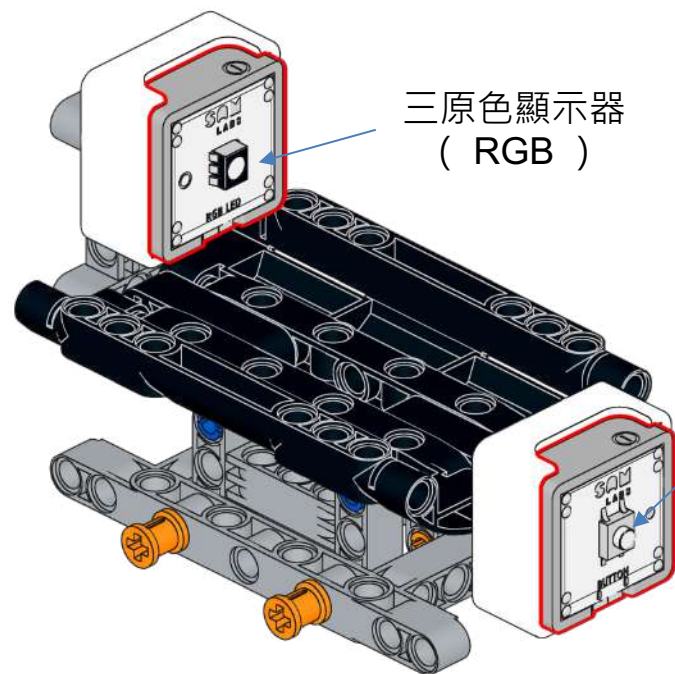
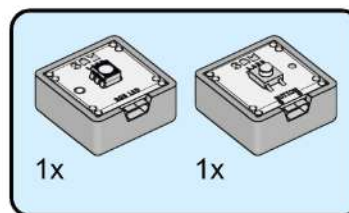


B. 場地設置製作

9

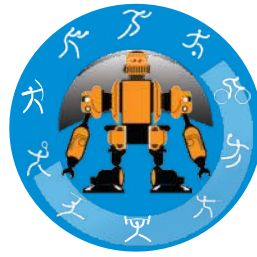


10

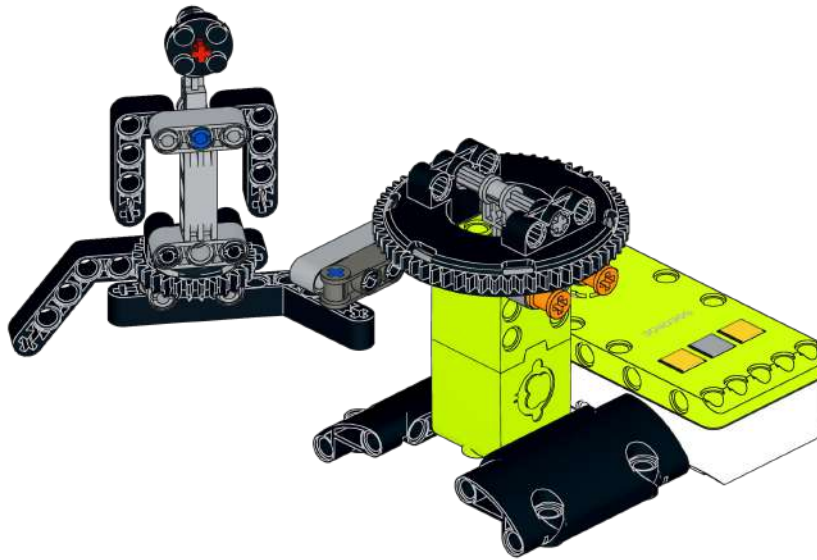


三原色顯示器
(RGB)

觸碰感應器
(BUTTON)

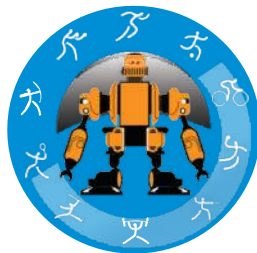


B. 場地設置製作

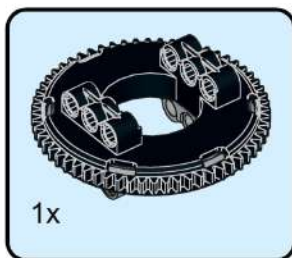


場地設置製作 (花式溜冰設置)

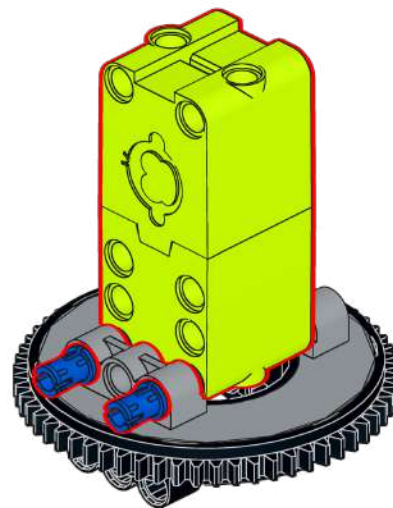
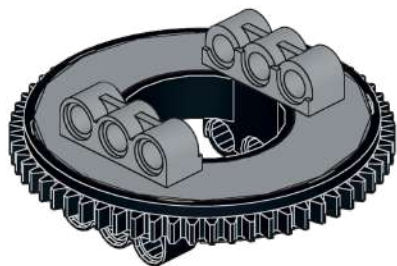
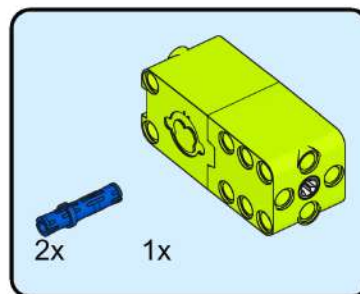
B. 場地設置製作



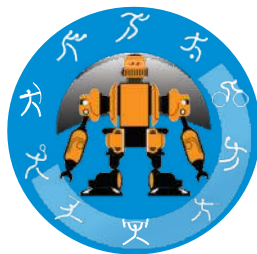
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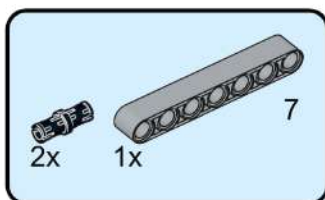
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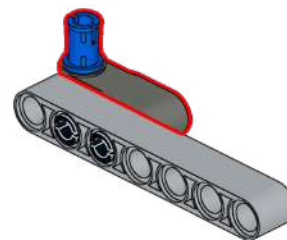
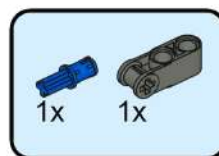
B. 場地設置製作



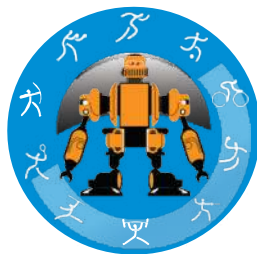
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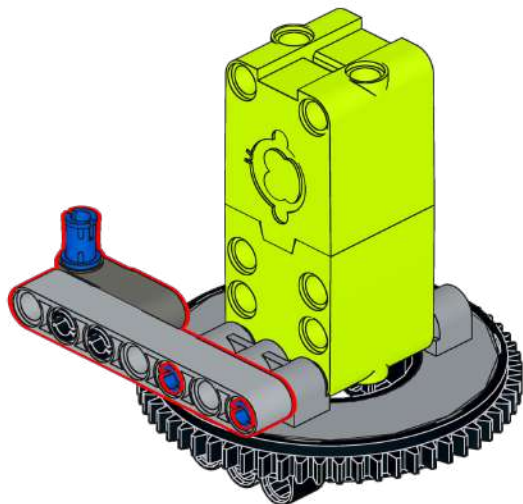
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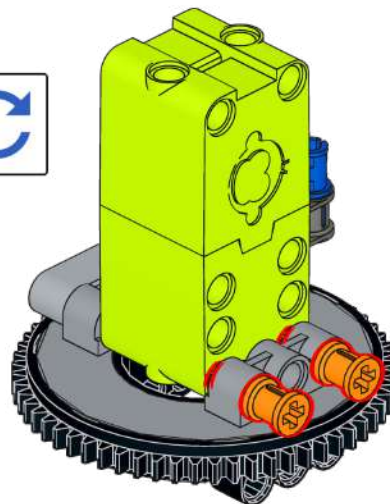
B. 場地設置製作



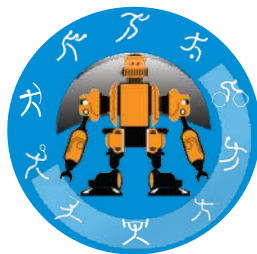
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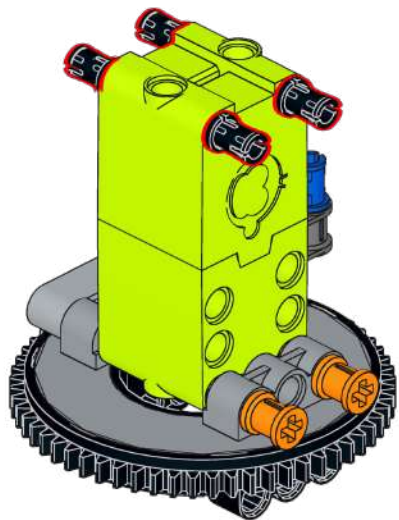
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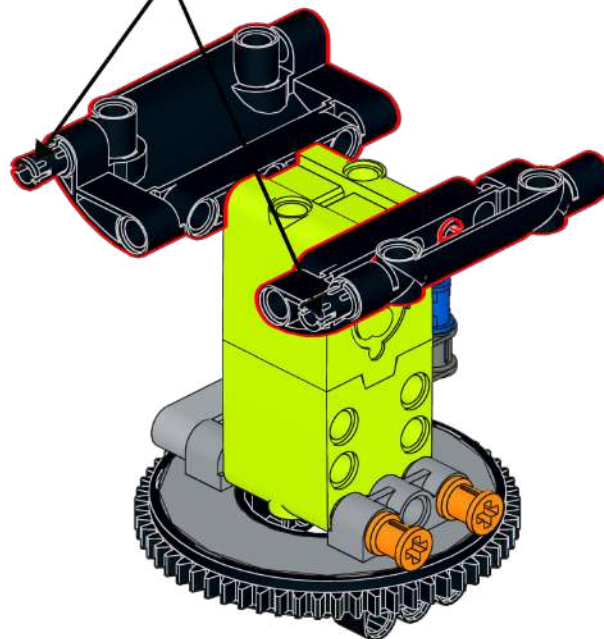
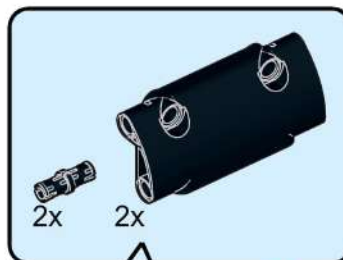
B. 場地設置製作

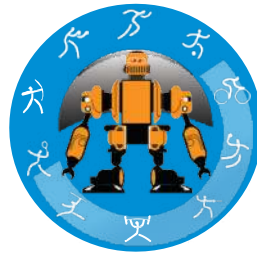


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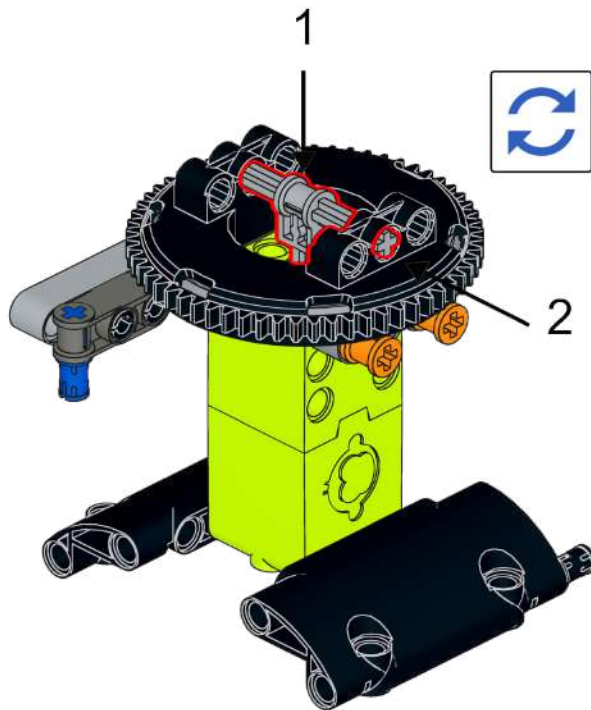
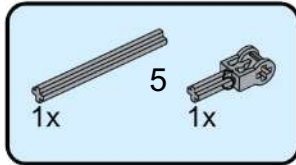
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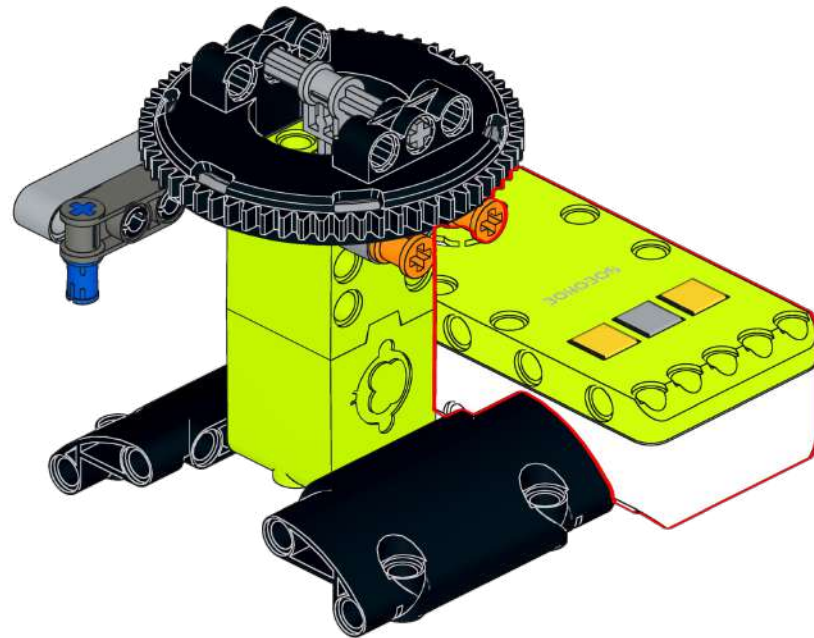
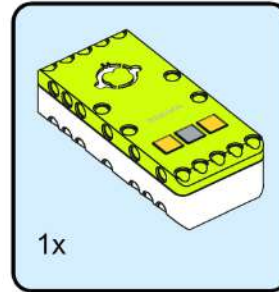


B. 場地設置製作

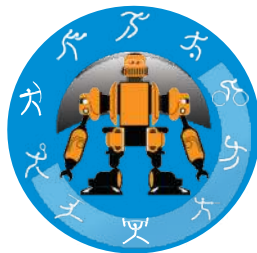
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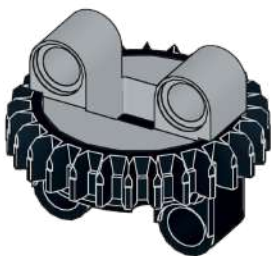
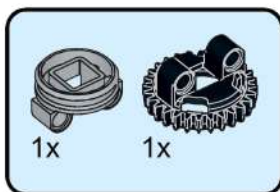
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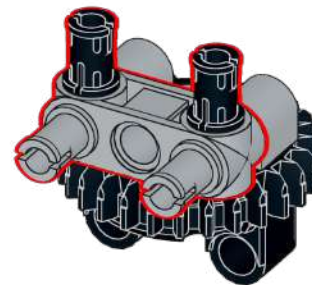
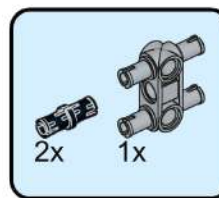
B. 場地設置製作



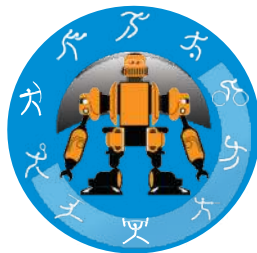
11



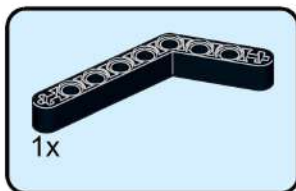
12



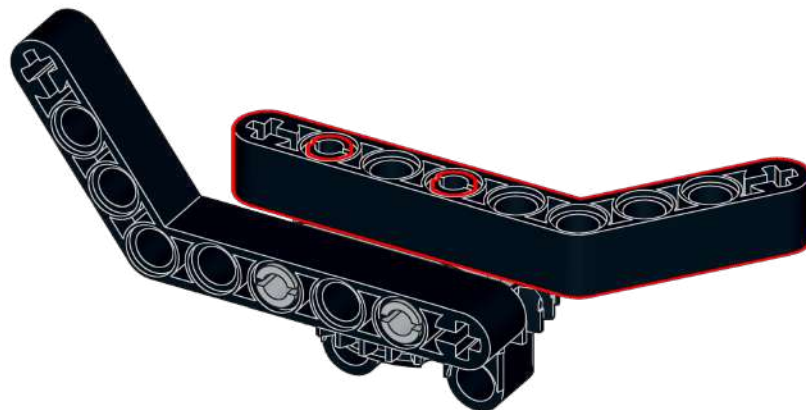
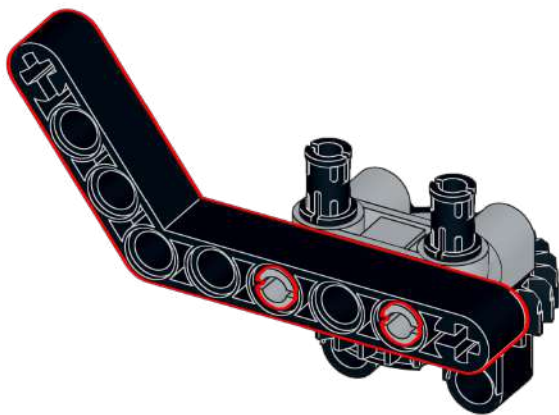
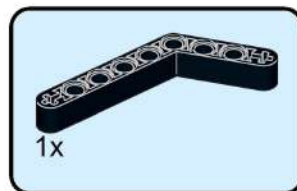
B. 場地設置製作



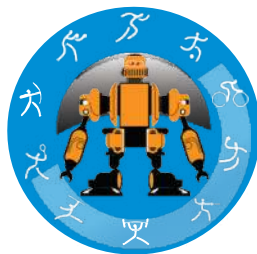
13



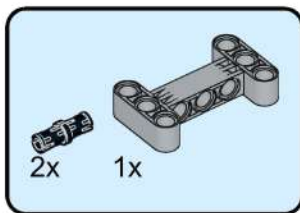
14



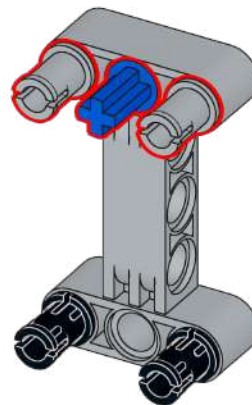
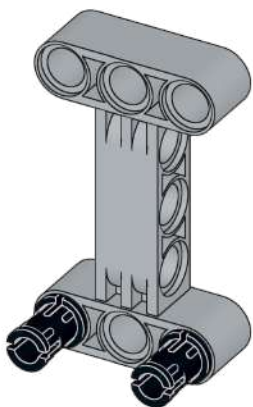
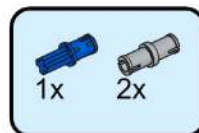
B. 場地設置製作



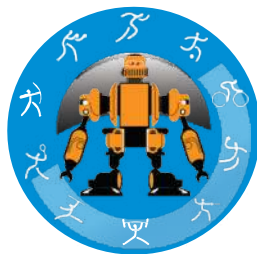
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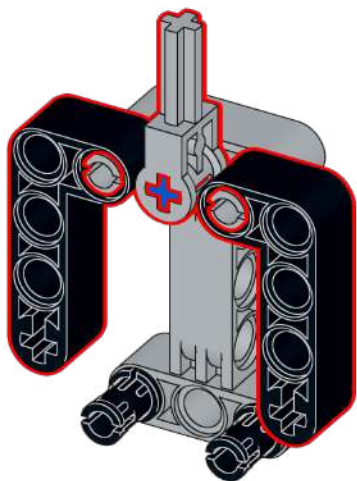
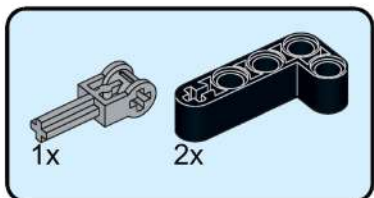
16



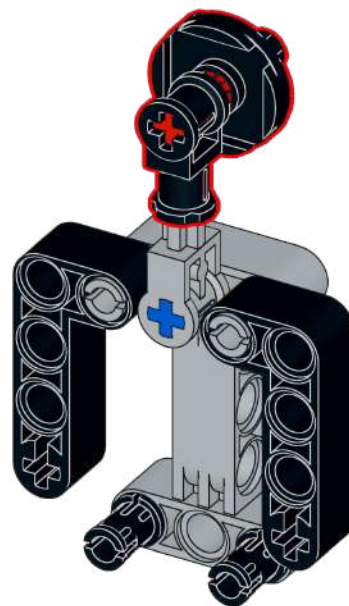
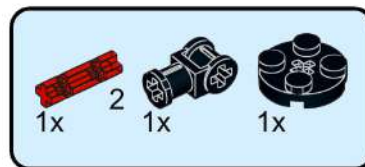
B. 場地設置製作



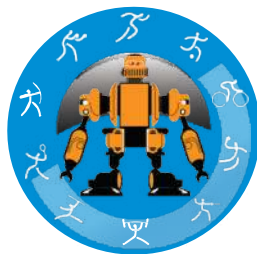
17



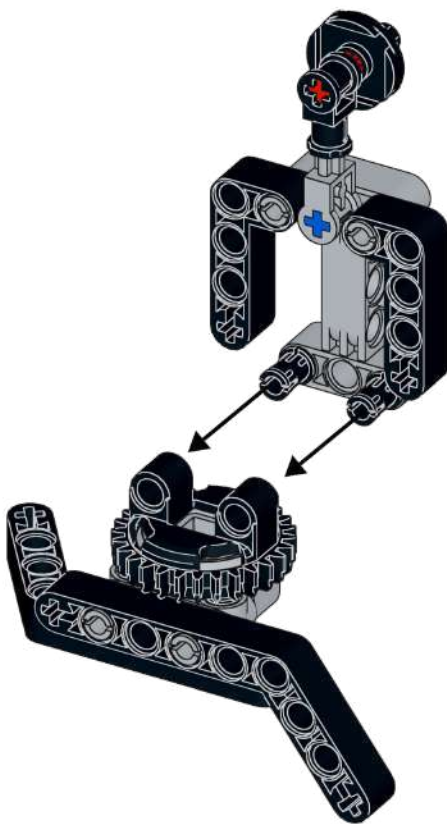
18



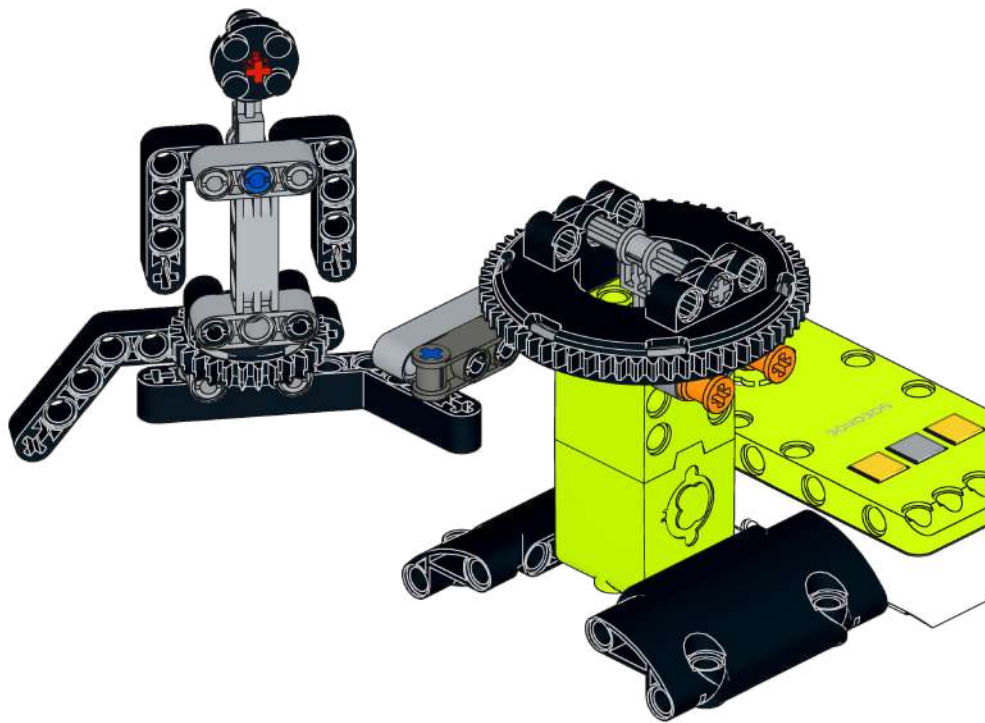
B. 場地設置製作

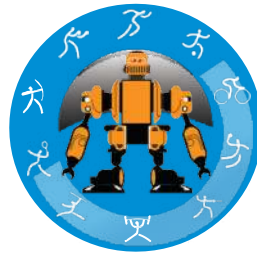


19

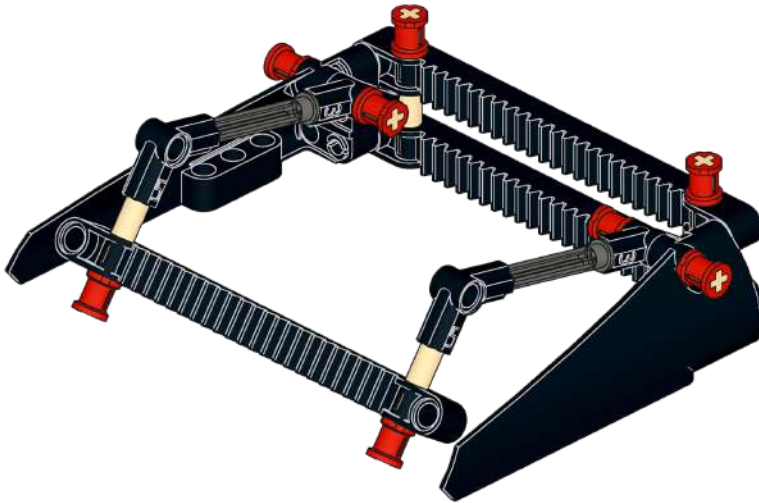


20

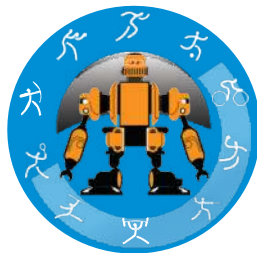




B. 場地設置製作

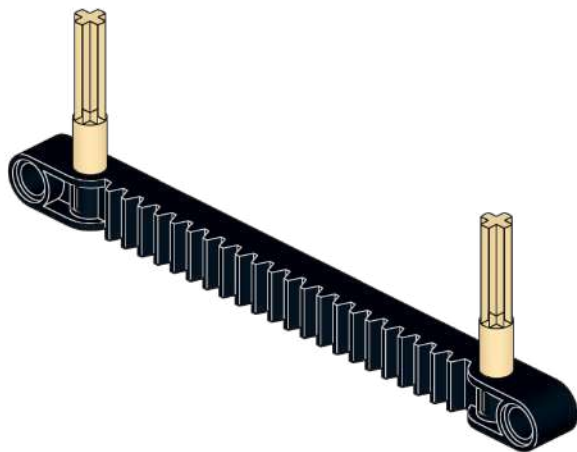
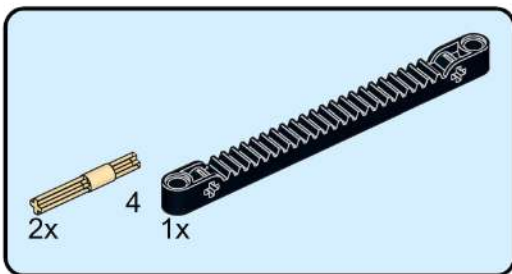


場地設置製作 (子彈倉庫區設置)

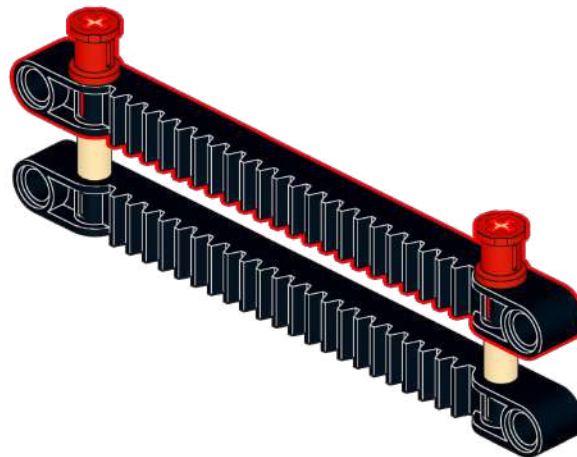
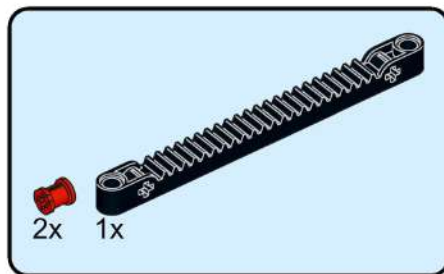


B. 場地設置製作

1



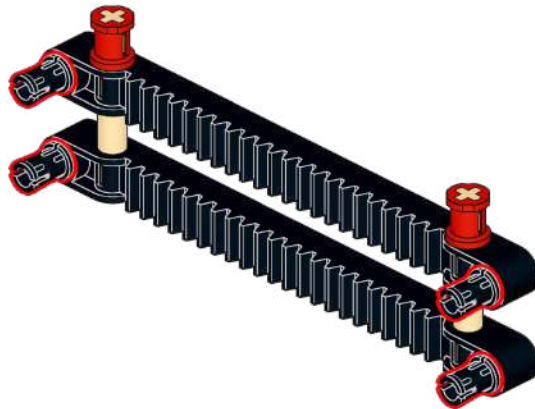
2



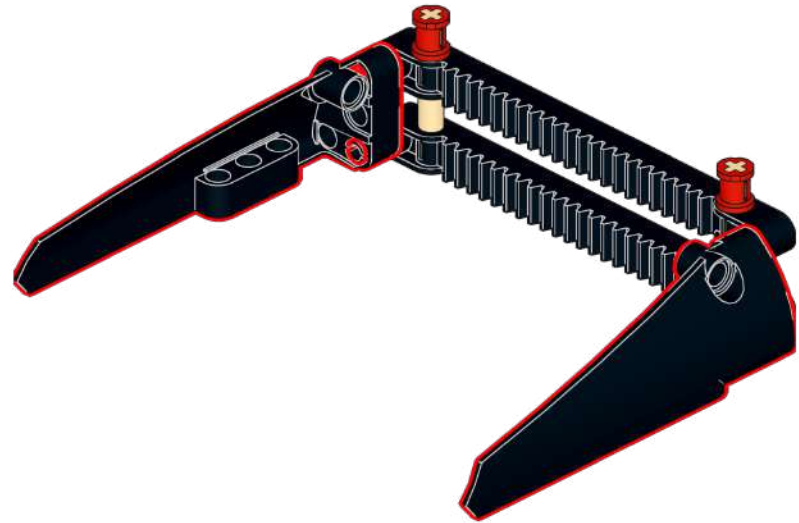
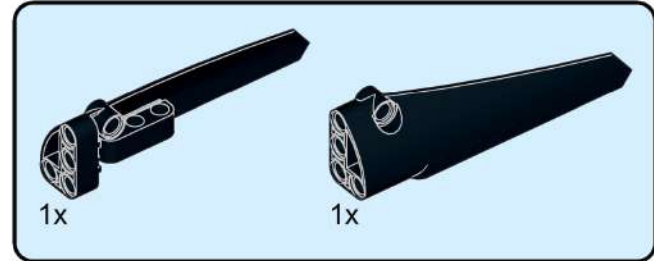


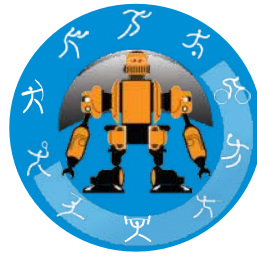
B. 場地設置製作

3



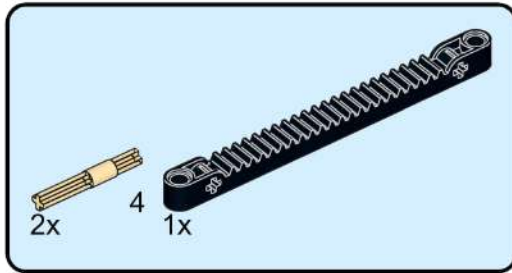
4



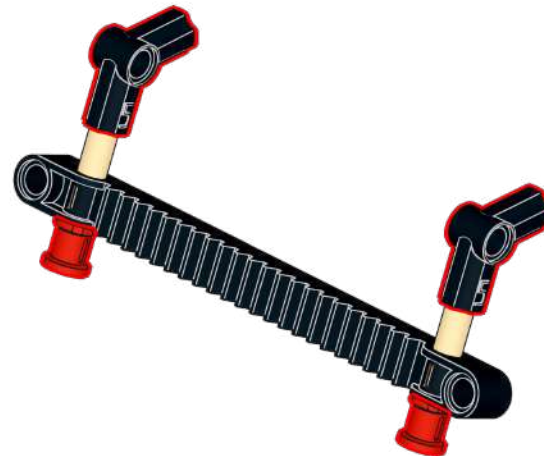
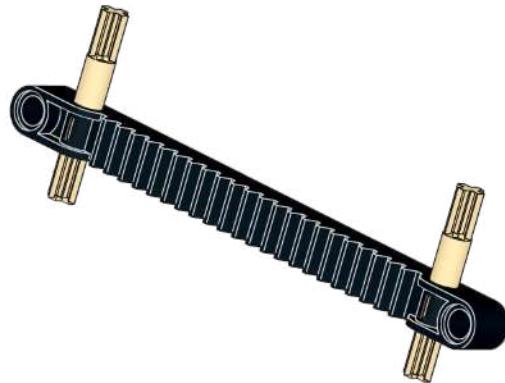


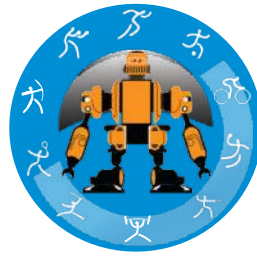
B. 場地設置製作

5



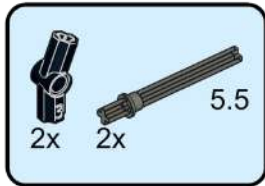
6



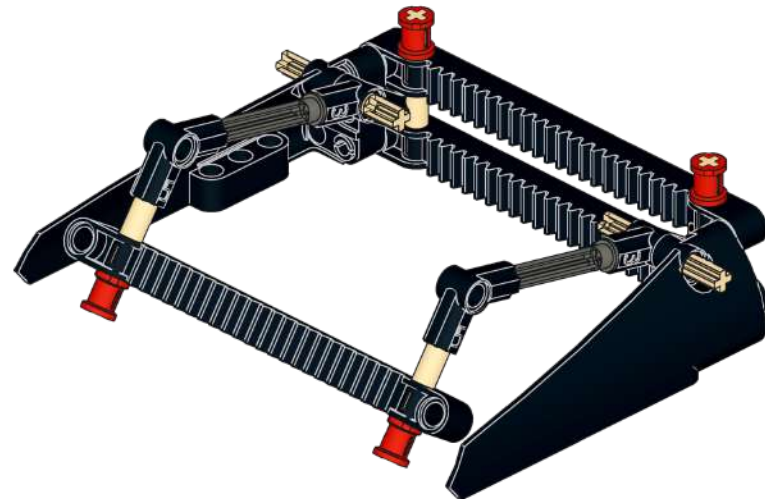
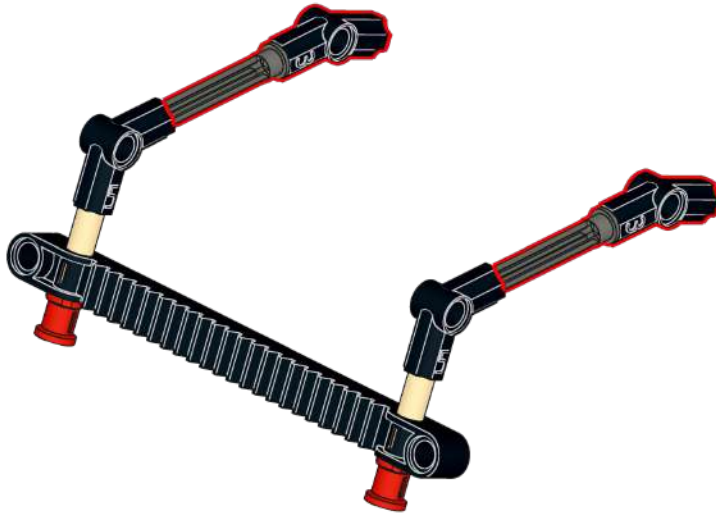
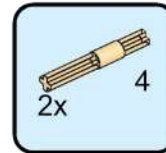


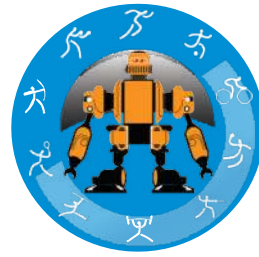
B. 場地設置製作

7



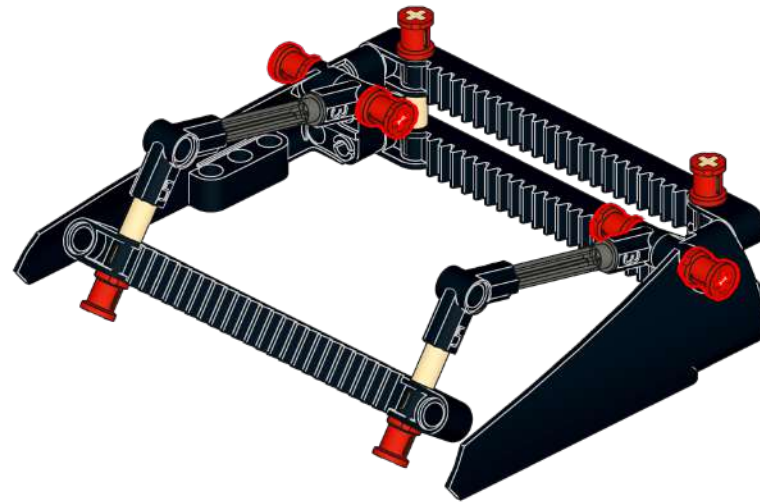
8

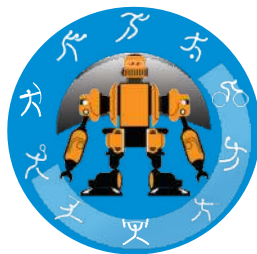




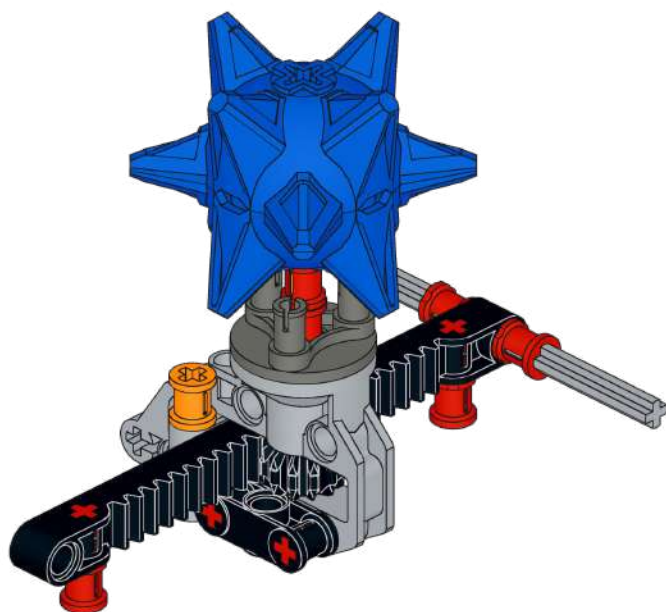
B. 場地設置製作

9



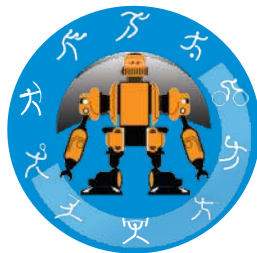


B. 場地設置製作

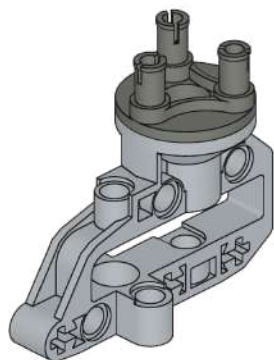
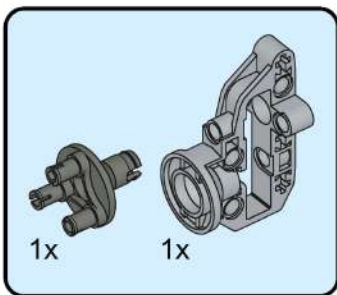


場地設置製作 (速度滑冰設置)

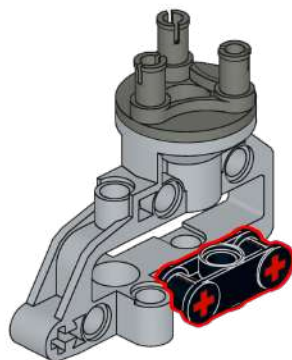
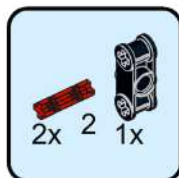
B. 場地設置製作



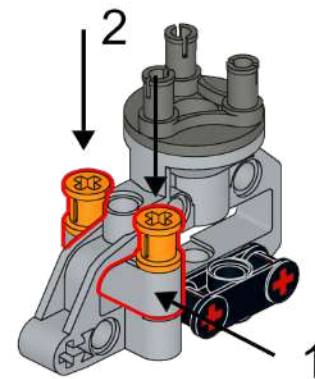
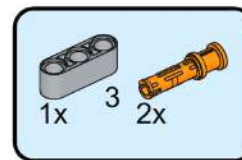
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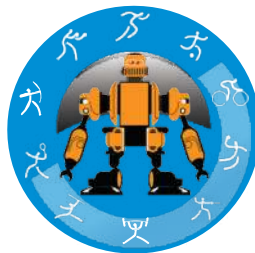


2



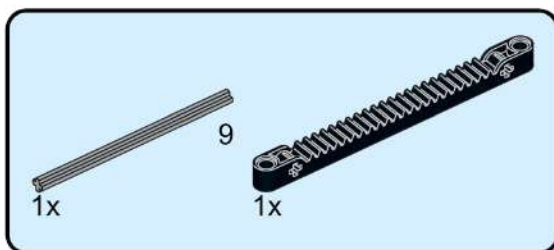
3



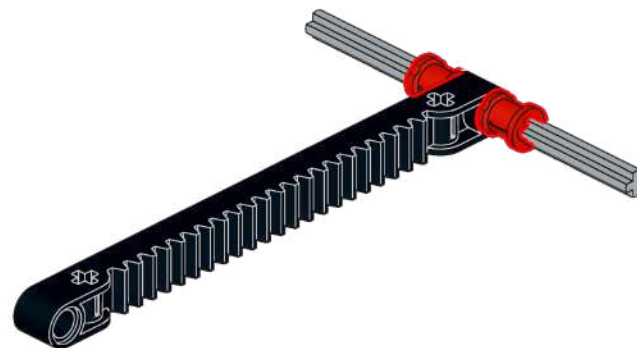


B. 場地設置製作

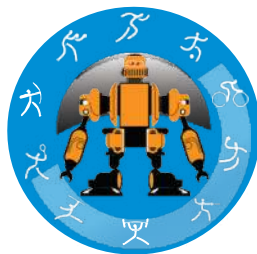
4



5

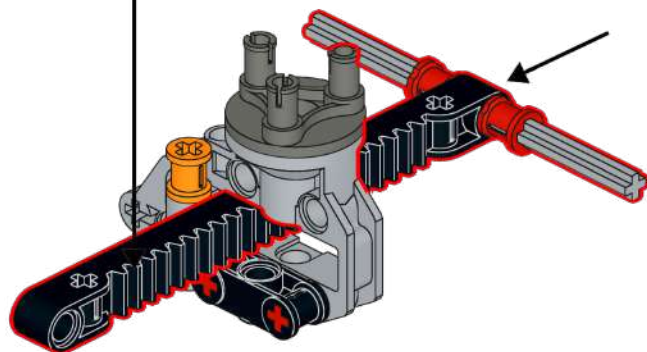


B. 場地設置製作

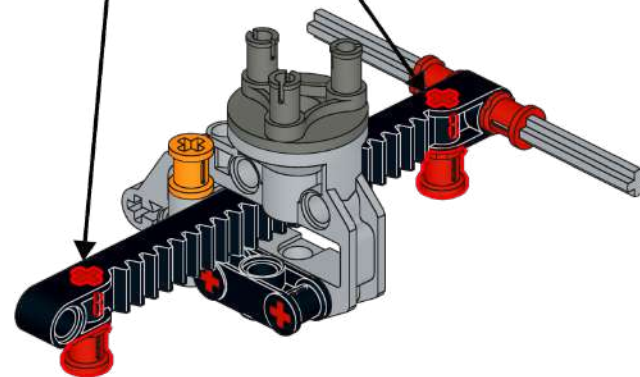
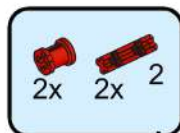


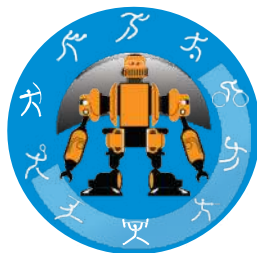
6

注意擺放方向



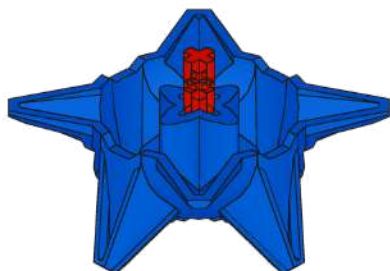
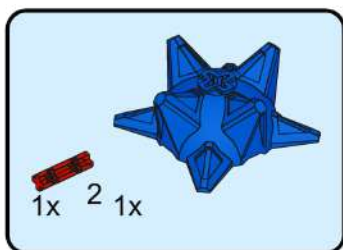
7



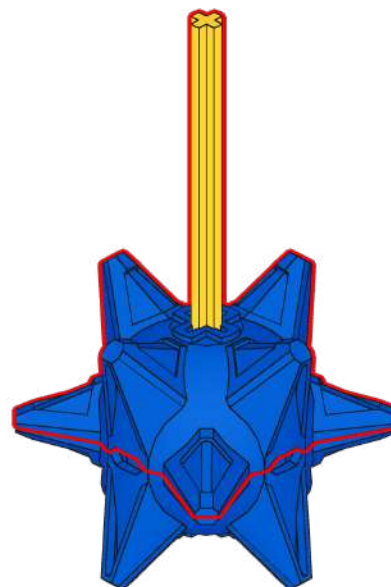
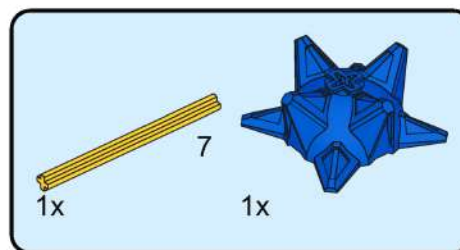


B. 場地設置製作

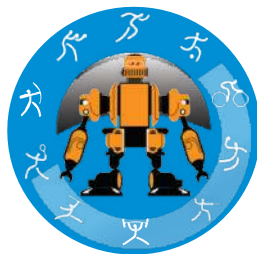
8



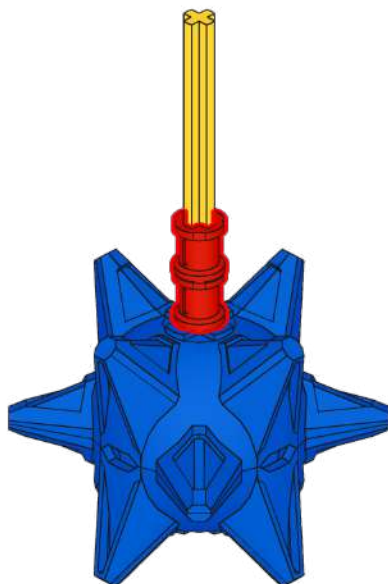
9



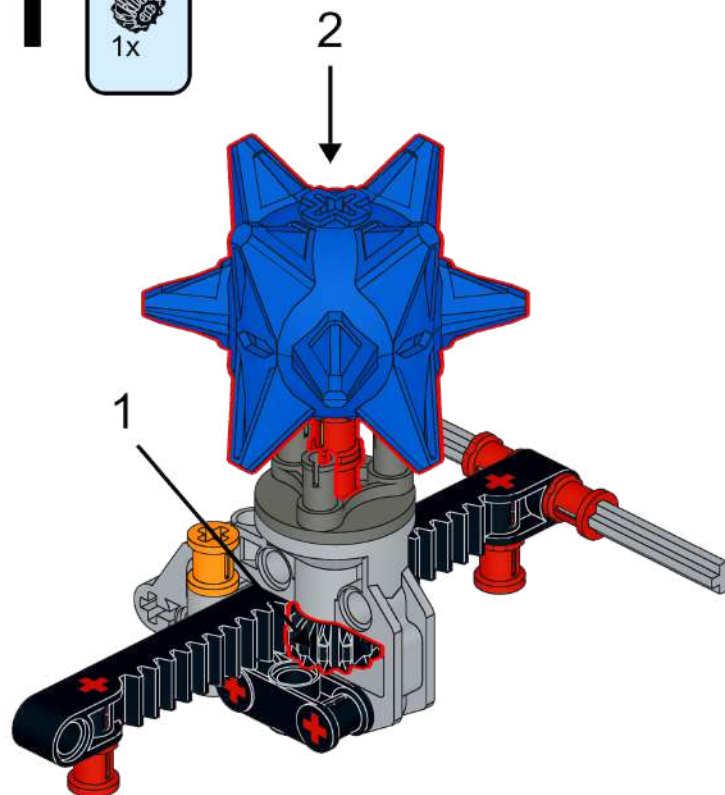
B. 場地設置製作

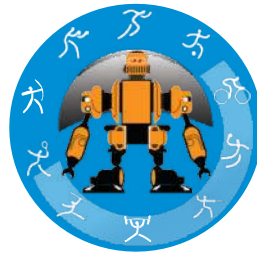


10

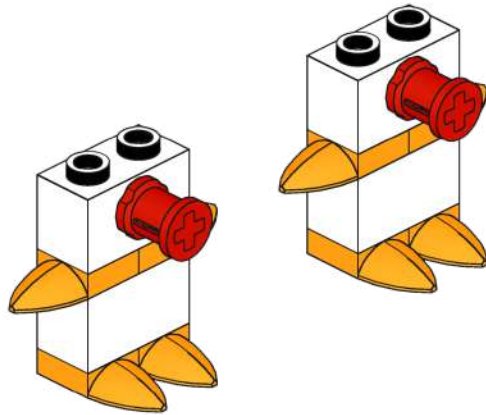


11



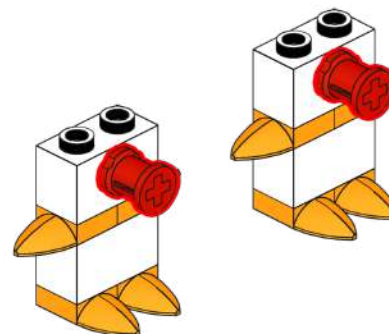
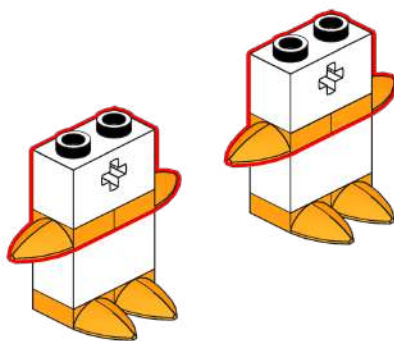
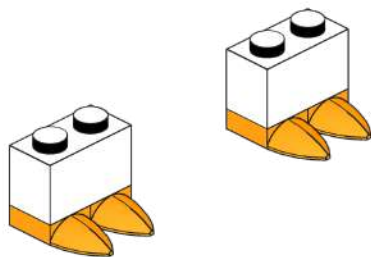
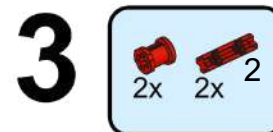
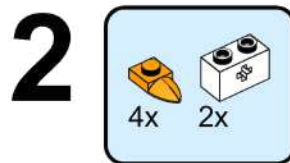
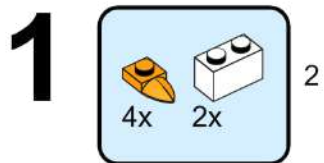
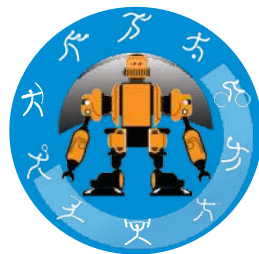


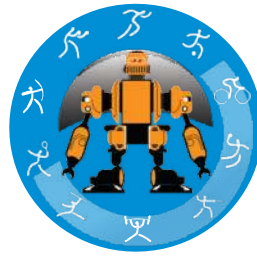
B. 場地設置製作



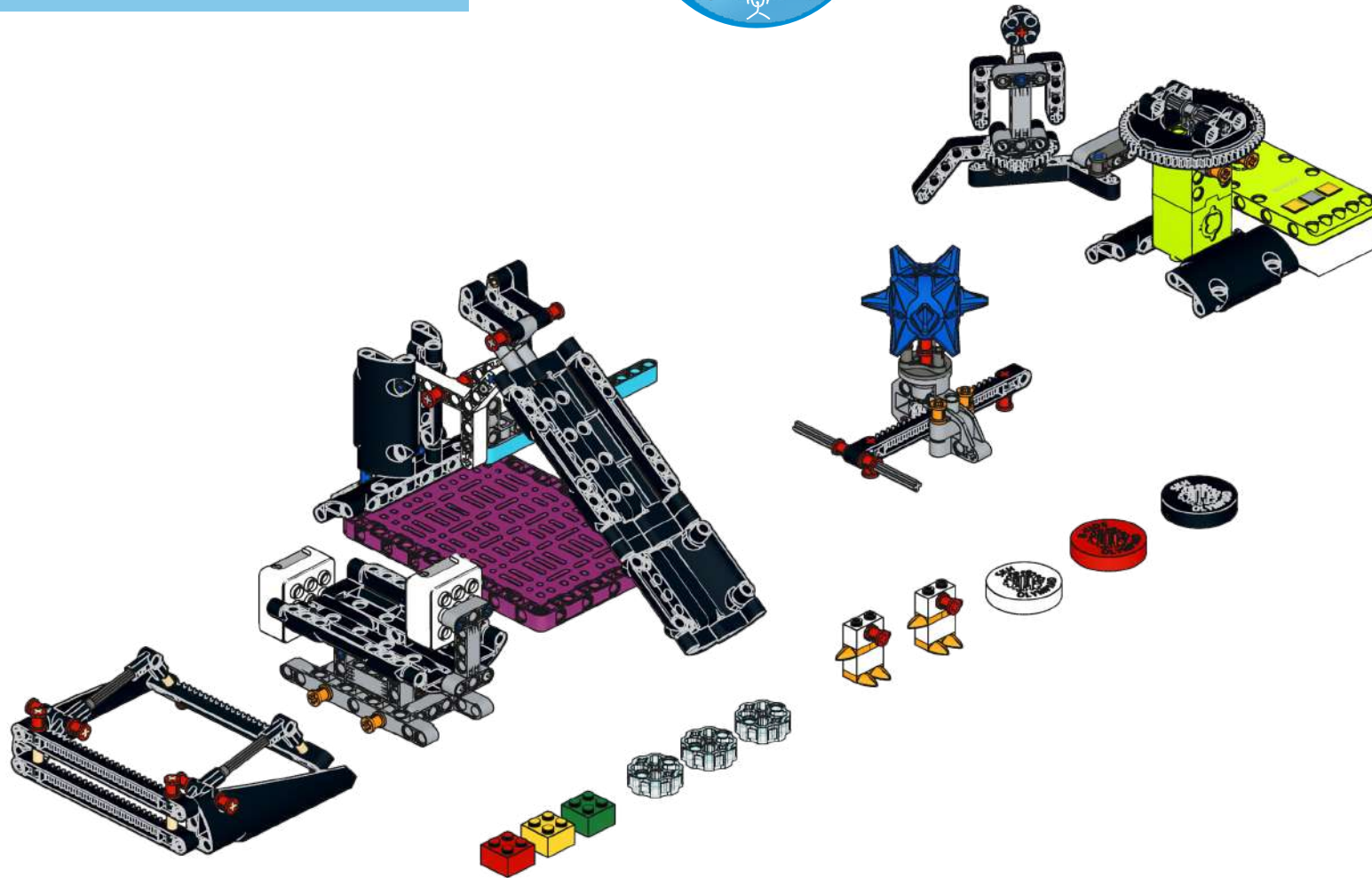
場地設置製作 (參賽者)

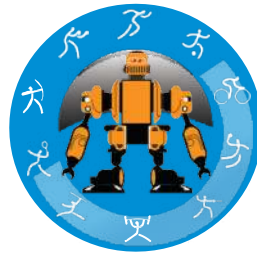
B. 場地設置製作





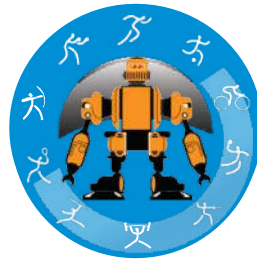
B. 場地設置製作





C. 程式編寫指南

程式編寫指南



C. 程式編寫指南

1. 連接應用

1.1 開啟 APP STORE，輸入並下載 SAM Studio。

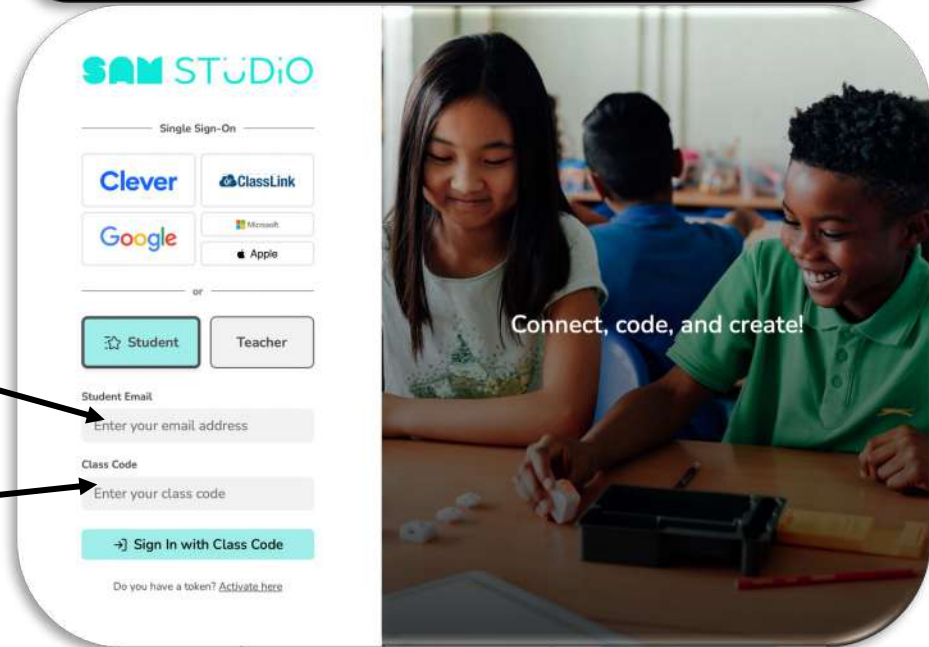
1.2 輸入電郵地址：samlabsskh@gmail.com

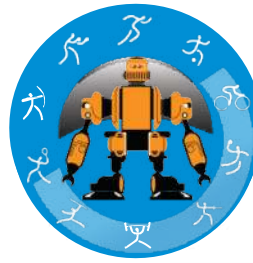
輸入課程代碼：7G5QS3



電郵地址

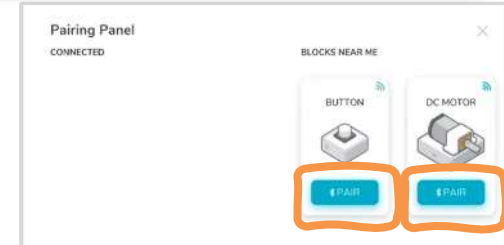
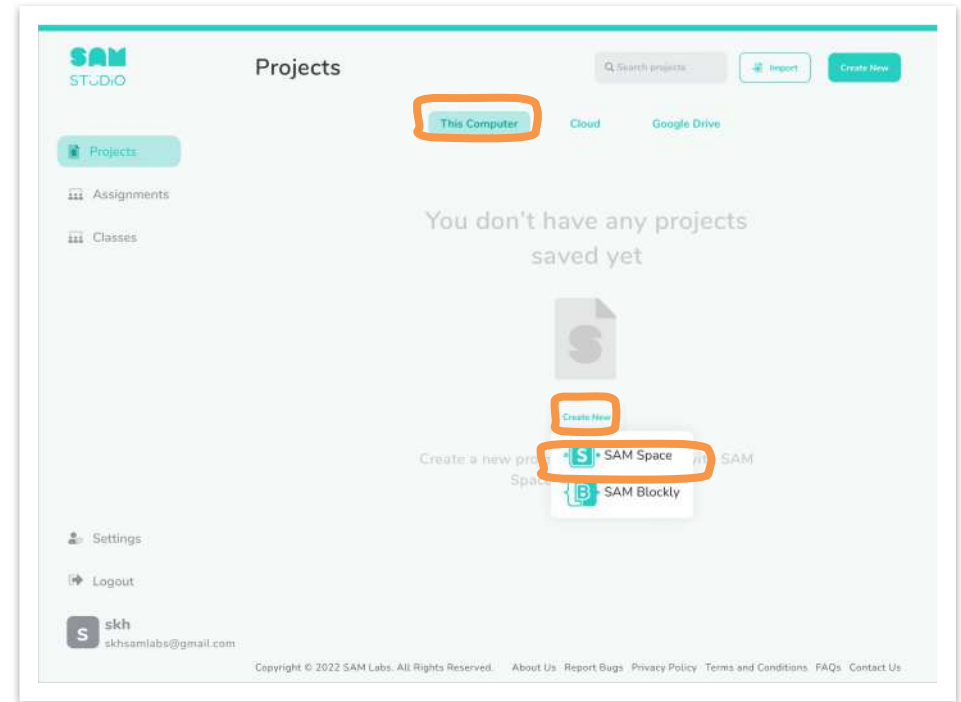
課程代碼

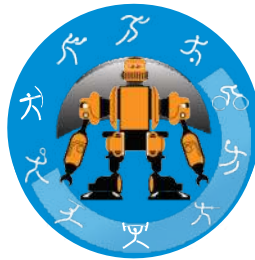




C. 程式編寫指南

- 1.3 選擇 “This Computer” 及 “Create New”。
 - 1.4 再按 “SAM Space” 便可進入編程界面。
 - 1.5 開啟 IPAD 的藍牙。
 - 1.6 長按DC MOTOR / BUTTON 的開關，直到發出燈光為止。
 - 1.7 按下編程畫面中的 “Connect”。
 - 1.8 按下想要配對的 DC MOTOR / BUTTON，便完成配對。
- **如同一時間有多個 DC MOTOR / BUTTON 需要配對時，
可留意它們與 IPAD 顯示的顏色或閃燈頻率是否一樣。**

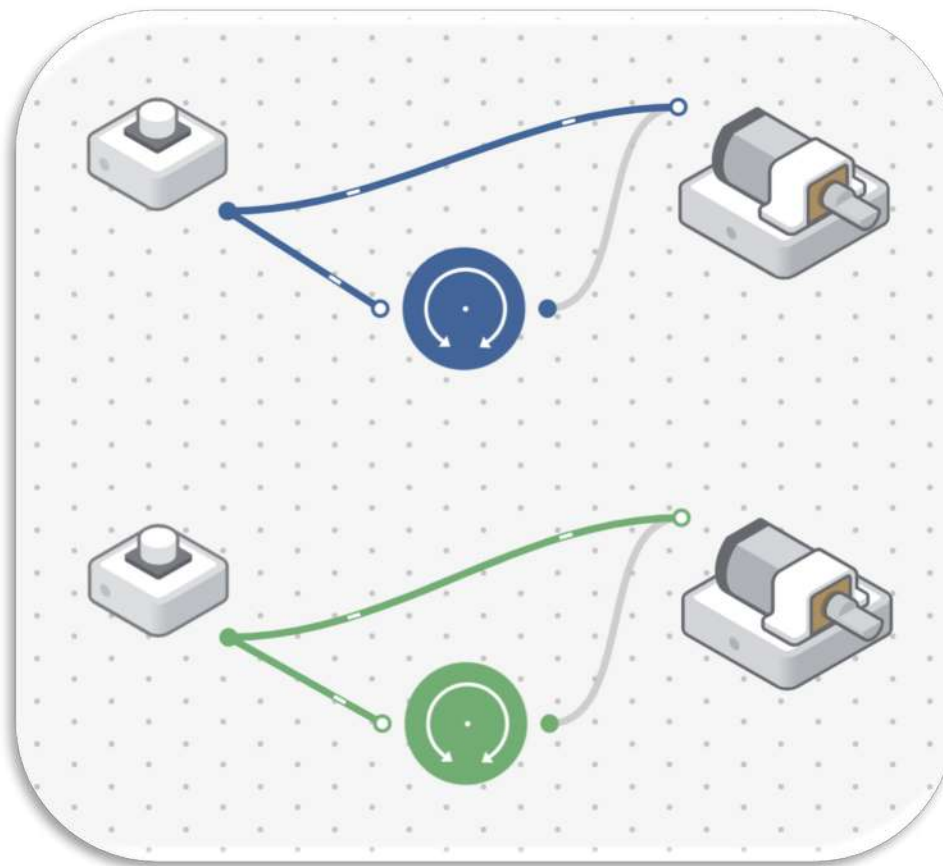


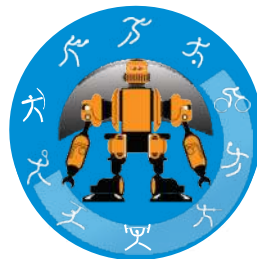


C. 程式編寫指南

2. 程式示範 (機械人 A 或 B)

- 2.1 按照右圖，編寫 2 組程式指令。
- 2.2 可隨意變更 DC MOTOR 的轉動速度。





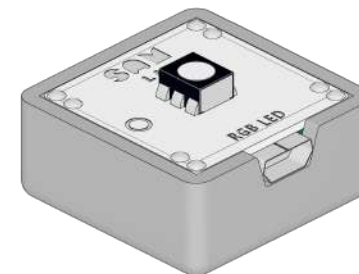
C. 程式編寫指南

3. 程式示範 (跳台滑雪設置)

3.1 按照右圖，編寫程式指令。

3.2 按下 BUTTON 時，RGB 就會發光。

(比賽當日在跳台滑雪設置上的 BUTTON、RGB 及其驅動程式會由大會提供)



RGB

