



創客牆-軌道積木組

TRACK WALL

TEACHING AID

3+

#1404

175 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 Ball Track Run. 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. 藉由軌道的特殊設計，並搭配軌道圓球經由左右往復高低差的軌道落下，認識重力、斜面等…科學原理。
To understand scientific principles such as the effects of gravity and slopes, we can design tracks to show how a ball moves or falls.
2. 除了交通工具，還有可愛動物等，各式各樣豐富有趣的造型。
There are many fun and exciting shapes to make, like vehicles, cute animals, plants and underwater creatures.
3. 搭配生動活潑的主題，發揮孩子的創意，提升孩子的學習樂趣。
With vivid themes, children can develop their creativity and have fun while they learn.
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：小雞啄米

Theme: Chicken Pecking Rice P.6

- 1 直線軌道 Straight Track
- 2 雙層軌道 Double Track
- 3 蝸牛 Snail
- 4 籃子 Basket
- 5 小雞 Chicken

主題：沙灘

Theme: Beach P.12

- 1 三層軌道 Three-layer track
- 2 海草 Seaweed
- 3 蛤蜊 Clam
- 4 海龜 Turtle
- 5 螃蟹 Crab
- 6 透抽 Neritic Squid
- 7 珊瑚 Coral

主題：昆蟲

Theme: Insects P.20

- 1 花 Flower
- 2 豆娘 Damselfly
- 3 獨角仙 Rhinoceros Beetle
- 4 蝴蝶 Butterfly
- 5 升降軌道 Lifting Track
- 6 天牛 Longhorned Beetle
- 7 蜻蜓 Dragonfly

主題：交通

Theme: Traffic P.30

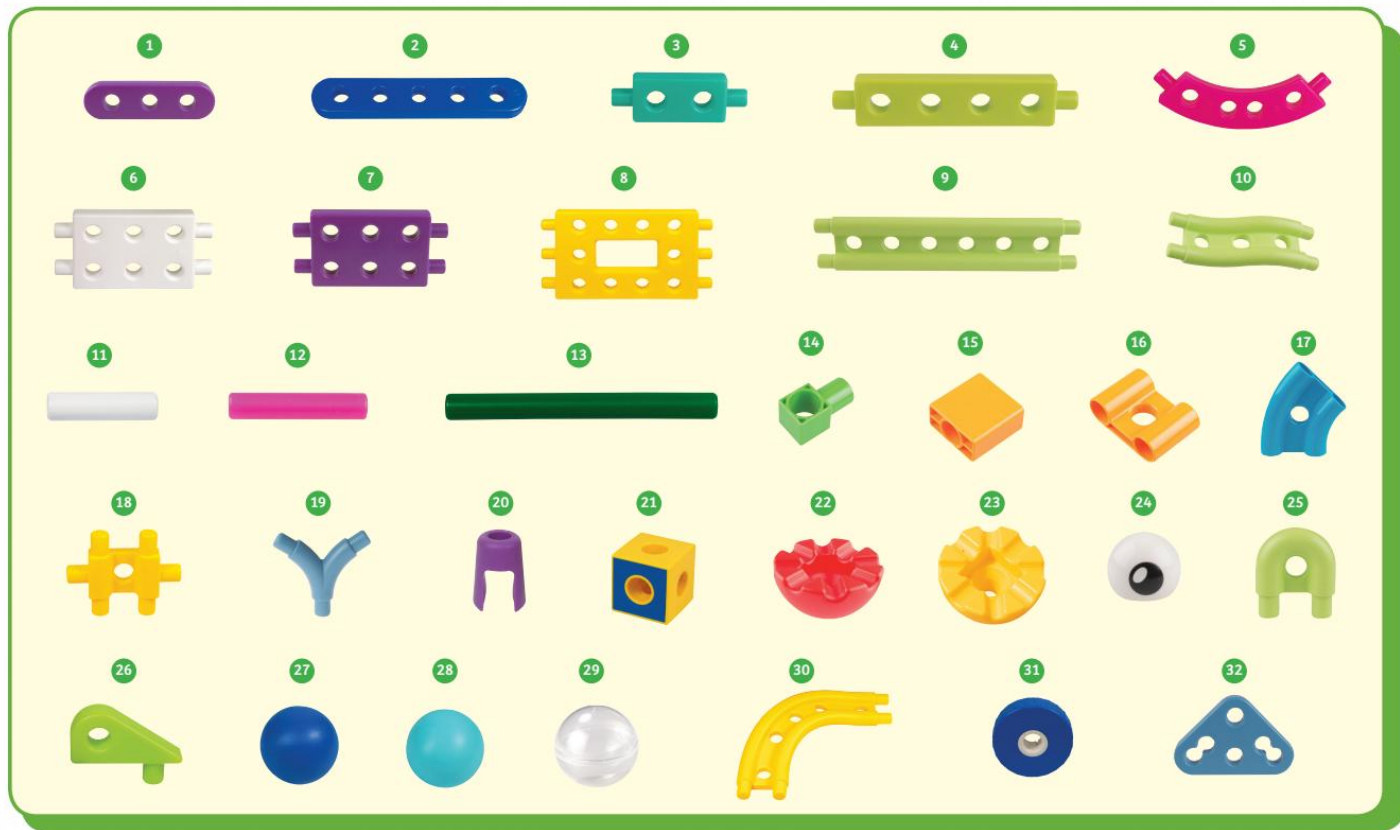
- 1 飛機 Aircraft
- 2 分球軌道 Bull Sorting Track
- 3 螺旋軌道 Spiral Track
- 4 汽車 Car
- 5 直升機 Helicopter

主題：海底世界

Theme: Underwater world P.36

- 1 魚 Fish
- 2 燈籠魚 Angler Fish
- 3 彎曲軌道 Curved Track
- 4 翹翹板 Seesaw
- 5 海馬 Seahorse
- 6 水母 Jellyfish

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	4	17	7331-W10-B1B	A-1/8 弧軌道結合器	A-CURVED TRACK CONNECTOR	4
2	7330-W11-D1B	A-5 孔圓長條	A-5 HOLE ROUND ROD	8	18	7330-W11-O1Y	A- 單孔固定軌道	A-1 HOLE TRACK	5
3	7330-W11-H1G	A-2 孔長條	A-2 HOLE ROD	8	19	7261-W11-D1B	A-Y 型結合器	A-Y SHAPE AXIS	2
4	7330-W11-I1G	A-4 孔長條	A-4 HOLE ROD	5	20	7261-W85-B	A- 結合器 (組合件)	A-CONNECTOR BASE	3
5	7330-W11-J1P	A-4 孔 1/4 弧長條	A-4 HOLE BENDED ROD	6	21	8036-W85-V1Y	A- 正方顆粒	A-CUBE	2
6	7330-W11-C1W	A-2×3 孔長方框	A-3X2 HOLE BASE	6	22	8060-W11-E1R	A- 半圓球體	A-HEMISPHERE	1
7	7330-W11-C1P	A-2×3 孔長方框	A-3X2 HOLE BASE	2	23	8060-W11-E1Y	A- 半圓球體	A-HEMISPHERE	1
8	8060-W11-F1Y	A-3×4 孔長方框	A-3X4 FRAME	4	24	7261-W85-A	A- 活動眼球	A-EYE	6
9	7330-W11-K1G	A-6 孔直線軌道	A-6 HOLE TRACK	4	25	7330-W11-P1G	A- 單孔單向軌道	A-TRACK END	4
10	7330-W11-N1G	A-3 孔斜坡軌道	A-SLIDE TRACK	8	26	7330-W11-U1G	A-1 凸單孔弧三角顆粒	A-ARC TRIANGLE FLAT PEG	6
11	7330-W11-X1W	A-60mm 圓棒	A-60mm CONNECTOR	15	27	7330-W11-M1B	A-40mm 圓球	A-40mm BALL	2
12	7330-W11-A1PK	A-80mm 圓棒	A-80mm CONNECTOR	10	28	7330-W11-Q1B	A-50mm 圓球	A-50mm BALL	1
13	7330-W11-B1G	A-160mm 圓棒	A-160mm CONNECTOR	10	29	7331-W85-G1	A-58mm 扭蛋球	A-CAPSULE BALL	1
14	7331-W10-M1G	A-90 度結合器	A-LATERAL PEG	20	30	7330-W11-L1Y	A-5 孔 90 度彎軌道	A-CURVED TRACK	2
15	7331-W10-E1O1	A- 單孔結合器	A-ROD CONNECTOR	6	31	8036-W85-I1B	A-OD70×20mm 塑膠輪	A-OD70 WHEEL	6
16	7331-W10-A1O1	A- 軌道結合器	A-TRACK CONNECTOR	10	32	7330-W11-W1B	A-6 孔三角框	A-TRIANGLE FRAME	3

1

主題模型 Theme Model

1
直線軌道
Straight Track



2
雙層軌道
Double Track



3
蝸牛
Snail



4
籃子
Basket



5
小雞
Chicken

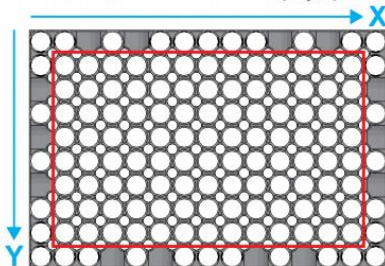


$a =$ 大底盤編號
JUMBO BASE GRID Coordinate

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 lower left hand corner of the red rectangle.

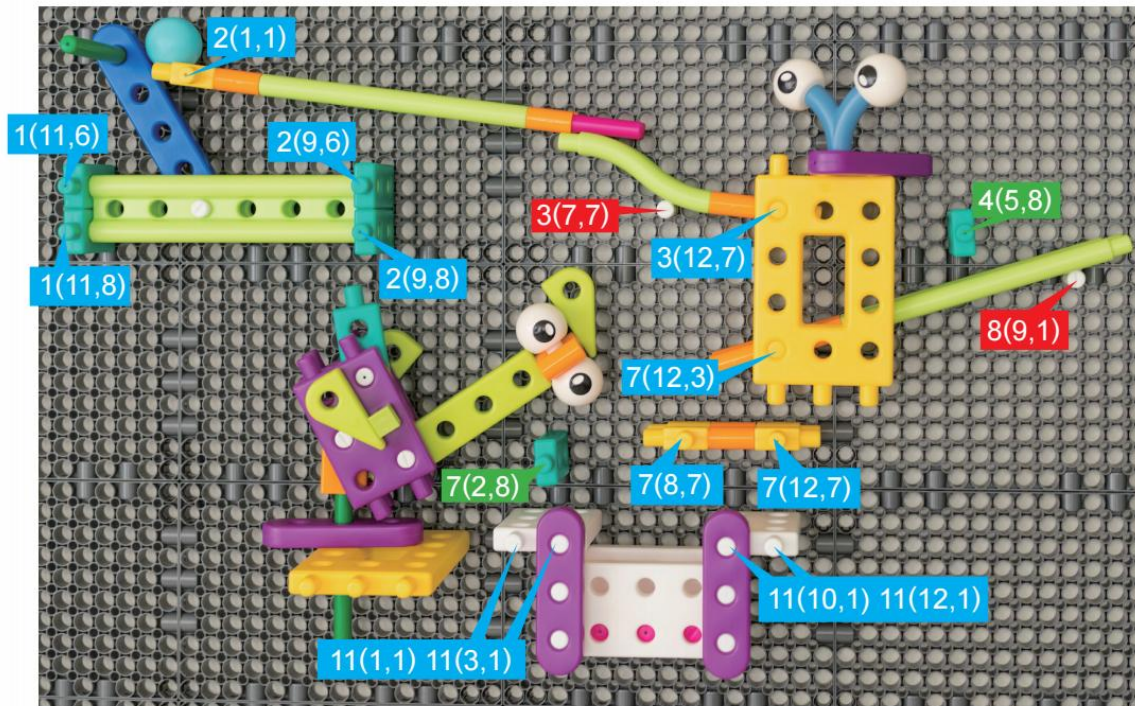
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1

主題製作：小雞啄米

Theme Making: Chicken Pecking Rice



貼心小提醒：
Note:



■紅色座標為支撐模型的零件。
The pegs in the red boxes support the tracks.



■綠色座標為檔版的零件。
The pieces in the green boxes deflect the ball and prevent it going too far in one direction.



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. You may need to tailor your own solution.

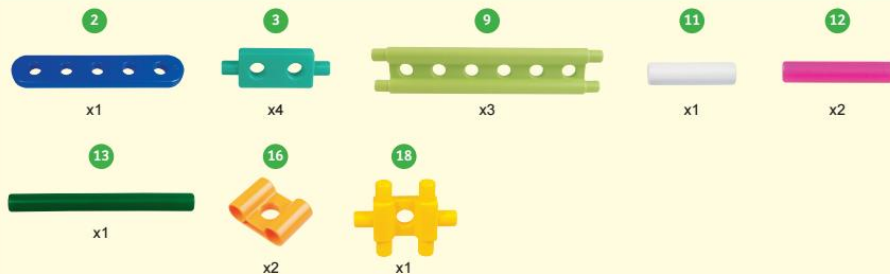
1

主題製作：小雞啄米 Theme Making: Chicken Pecking Rice

直線軌道 Straight Track



零件清單 Parts List



雙層軌道 Double Track



零件清單 Parts List

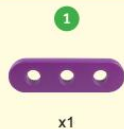


蝸牛

Snail



零件清單 Parts List

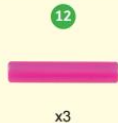
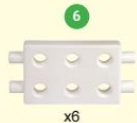
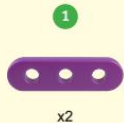


籃子

Basket



零件清單 Parts List



1













主題製作：小雞啄米

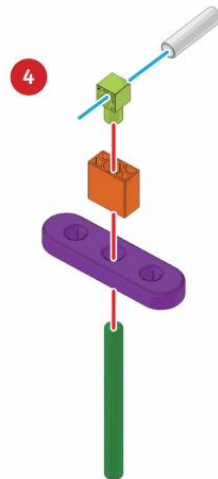
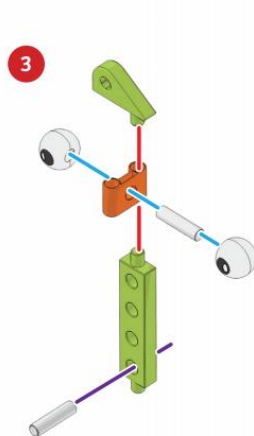
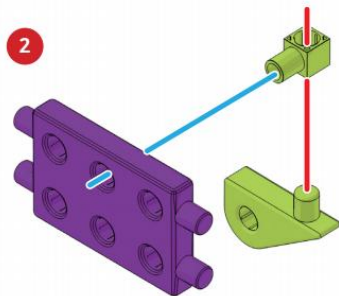
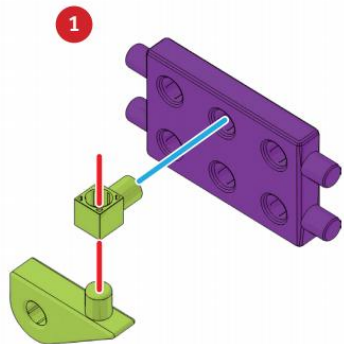
Theme Making: Chicken Pecking Rice

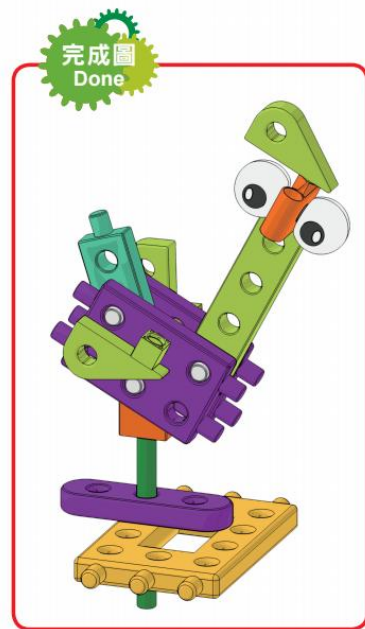
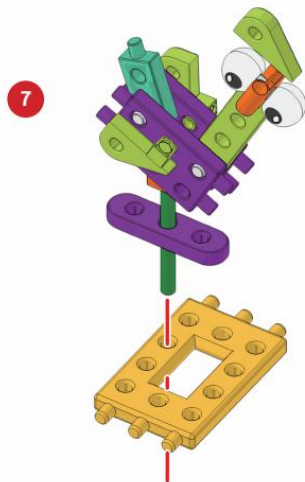
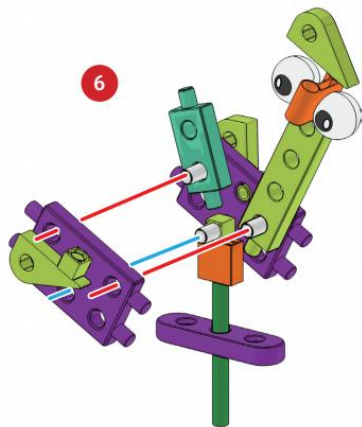
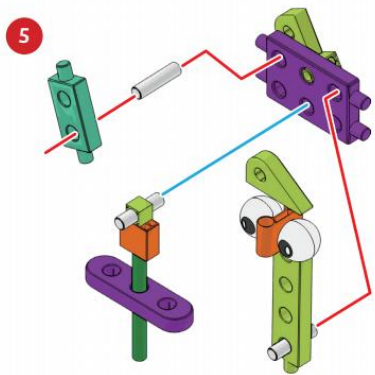
小雞 Chicken



零件清單 Parts List

						
x1	x1	x1	x2	x1		
						
x4	x1	x3	x1	x1	x2	x3





2

主題模型 Theme Model

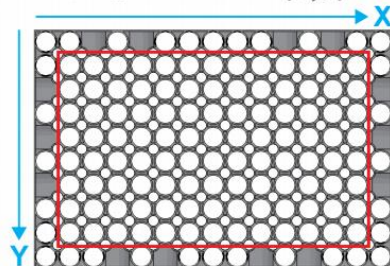


a = 大底盤編號
JUMBO BASE GRID Coordinate

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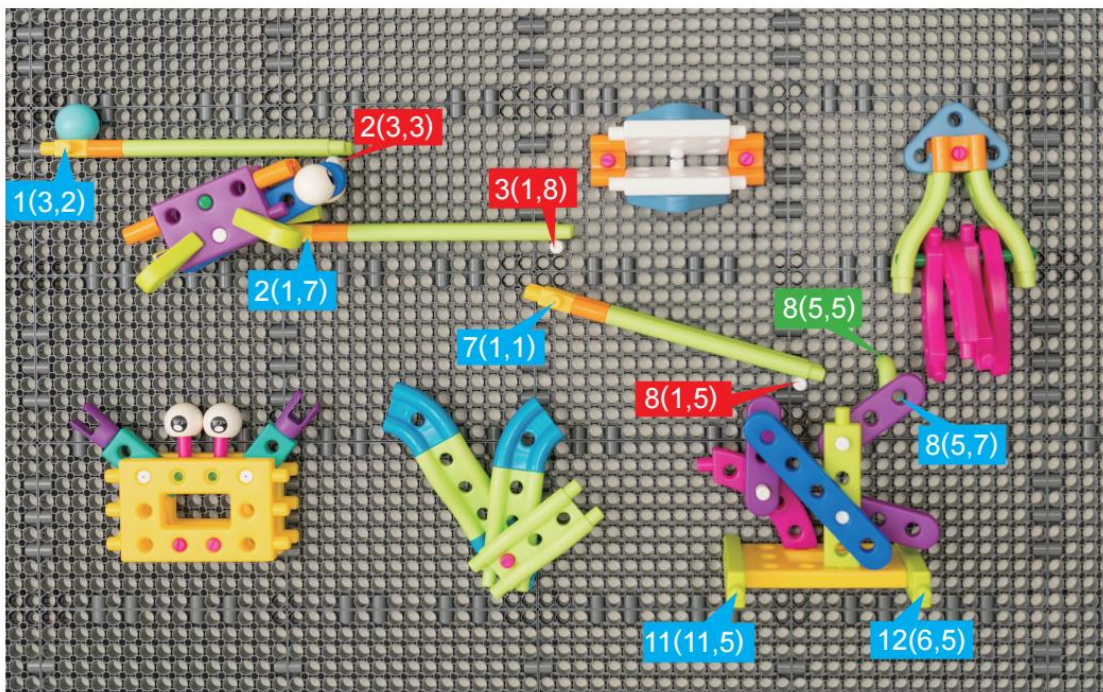
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Count hole spaces carefully, starting from the lower left hand corner of the the red rectangle.

座標 Coordinate : a=(X,Y)



2

主題製作：沙灘 Theme Making: Beach



貼心小提醒：
Note:

 ×3

■紅色座標為支撐模型的零件。
The pegs in the red boxes support the tracks.



■綠色座標為檔版的零件。
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模型操作影片

Model Operation Video

座標僅供參考，依實際組裝為主。

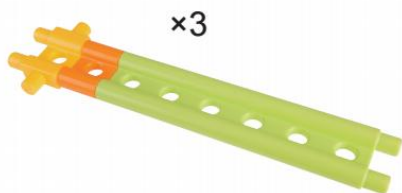
The coordinates given are only an approximation. You may need to tailor your own solution.

2

主題製作：沙灘 Theme Making: Beach

三層軌道

Three-layer track



零件清單 Parts List

9



x3

16



x3

18



x3

海草

Seaweed



零件清單 Parts List

10



x3

12



x1

17



x3

蛤蜊 Clam



零件清單 Parts List

6



x2

11



x2

12



x2

16



x2

32



x2

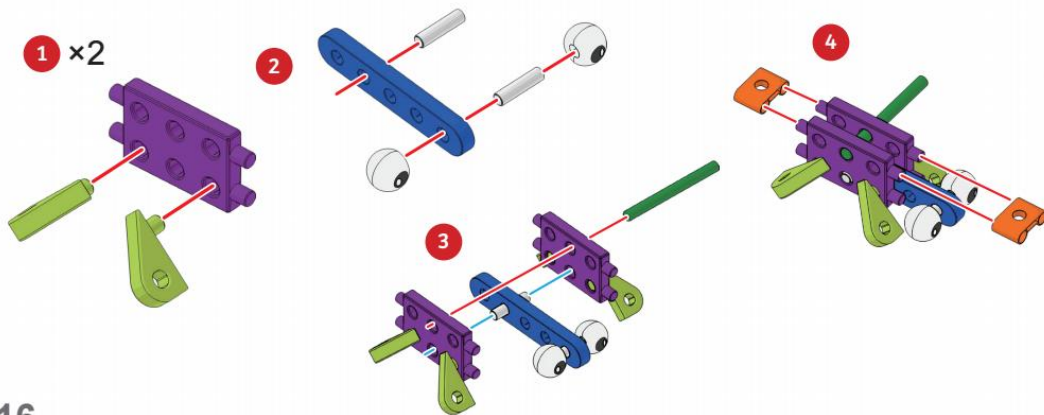
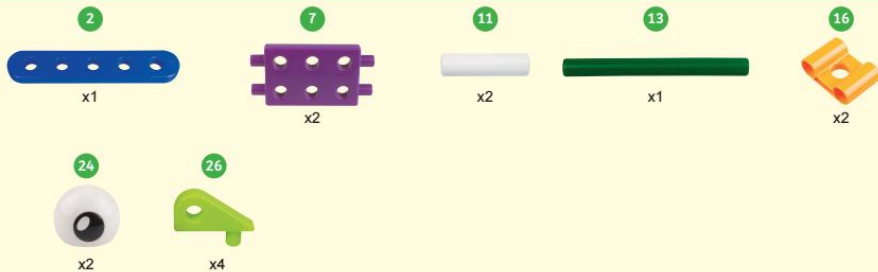
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主題製作：沙灘 Theme Making: Beach

海龜 Turtle



零件清單 Parts List

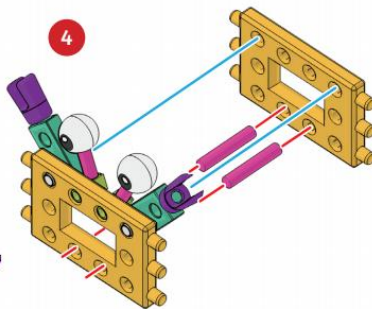
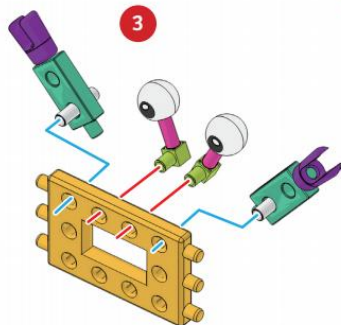
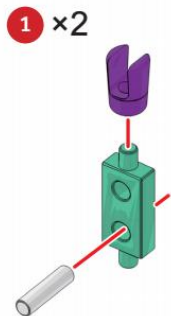


螃蟹 Crab



零件清單 Parts List

x2	x2	x2	x4	x2	x2	x2



2







主題製作：沙灘 Theme Making: Beach

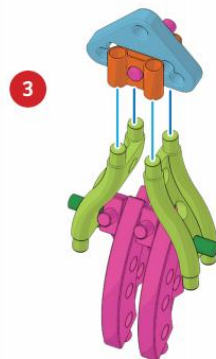
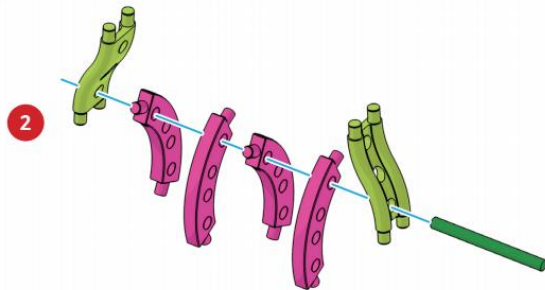
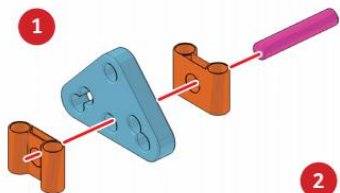
透抽

Neritic Squid



零件清單 Parts List

 5 x4	 10 x2	 12 x1	 13 x1	 16 x2
 32 x1				









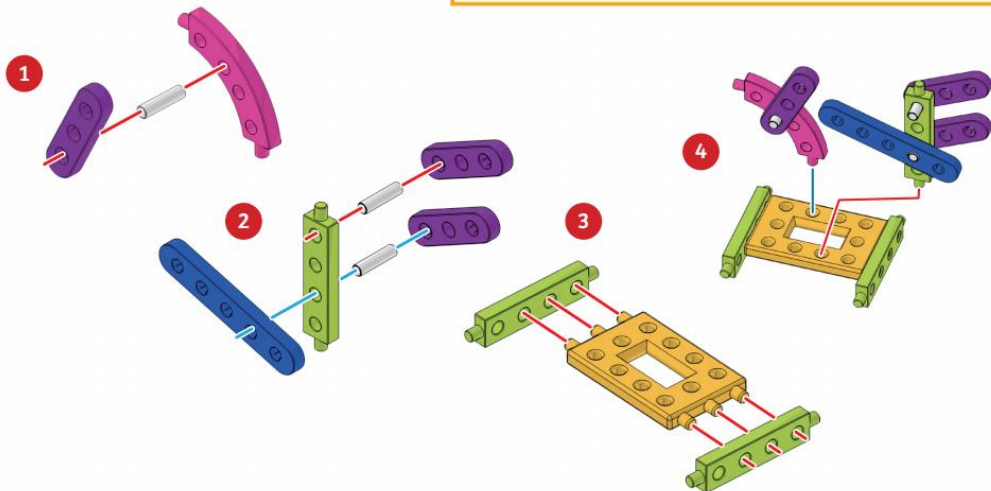
珊瑚

Coral



零件清單 Parts List

				
x3	x1	x3	x1	x1
				
x3				



3

主題模型 Theme Model

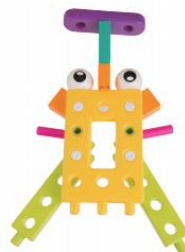
1
花
Flower



2
豆娘
Damselfly



3
獨角仙
Rhinosceros Beetle



4
蝴蝶
Butterfly



6
天牛
Longhorned Beetle



7
蜻蜓
Dragonfly



5
升降軌道
Lifting Track

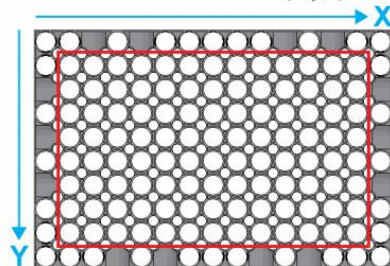


$a =$ 大底盤編號
JUMBO BASE GRID Coordinate

1	2	3	4
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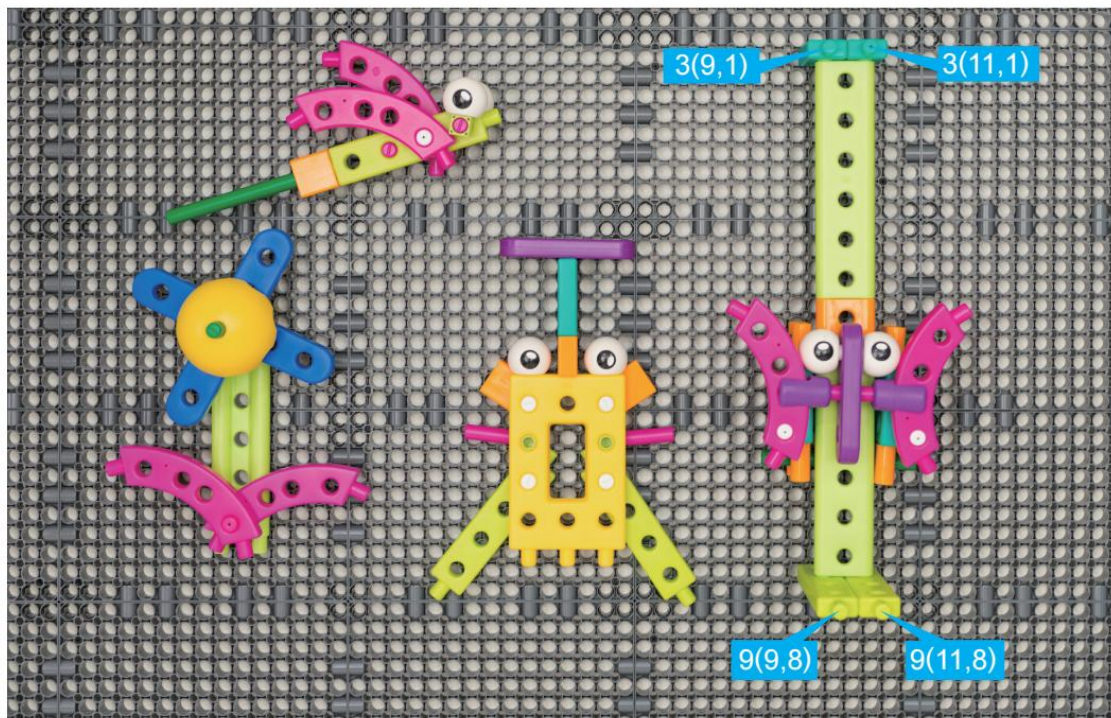
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Count hole spaces carefully, starting from the lower left hand corner of the the red rectangle.

座標 Coordinate : $a=(X,Y)$



3

主題製作：昆蟲 Theme Making: Insects



座標僅供參考，依實際組裝為主。

The coordinates given are only an approximation. You may need to tailor your own solution.



模型操作影片

Model Operation Video

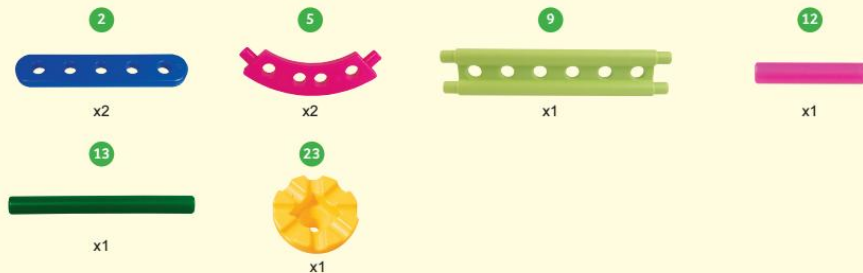
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主題製作：昆蟲 Theme Making: Insects

花 Flower



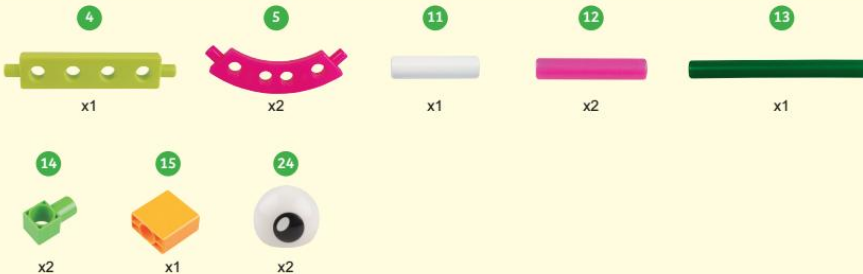
零件清單 Parts List



豆娘 Damselfly

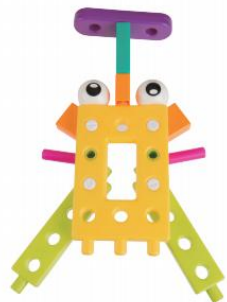


零件清單 Parts List

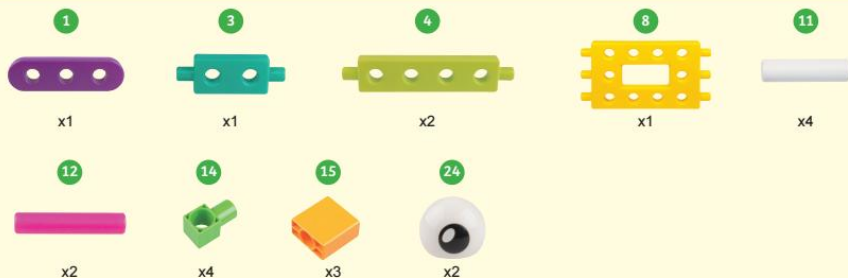


獨角仙

Rhinoceros Beetle



零件清單 Parts List



蝴蝶

Butterfly



零件清單 Parts List



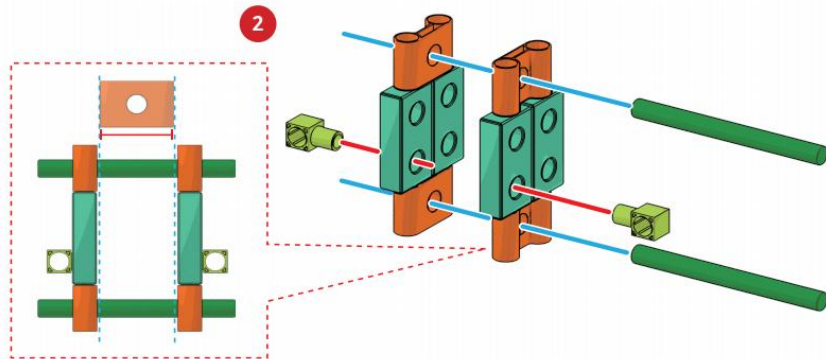
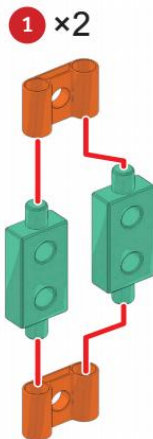
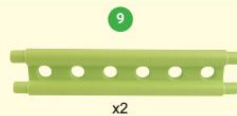
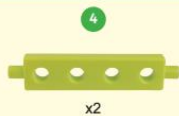
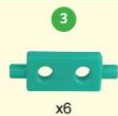
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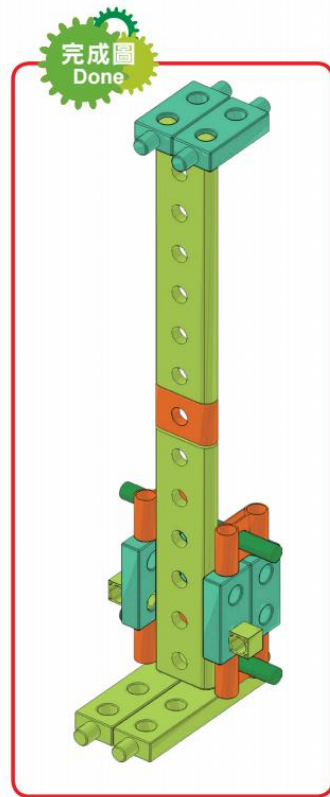
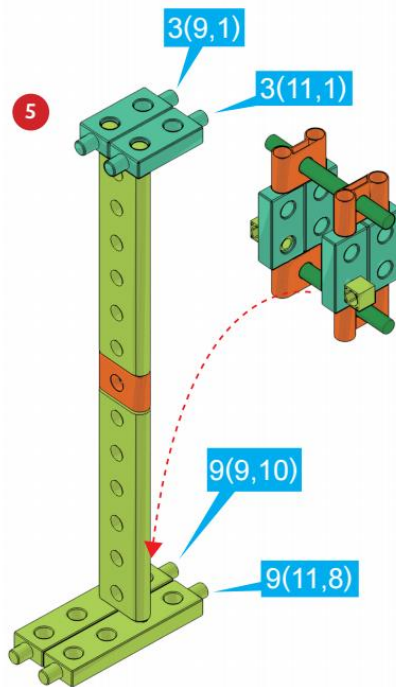
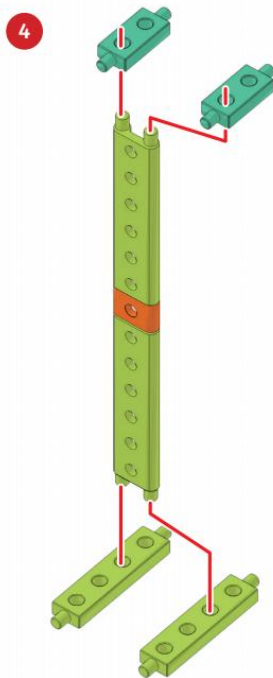
主題製作：昆蟲 Theme Making: Insects

升降軌道 Lifting Track



零件清單 Parts List





3

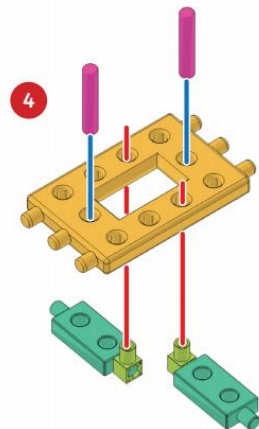
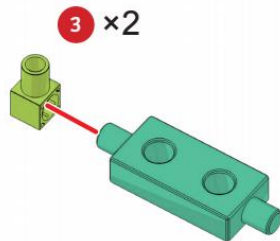
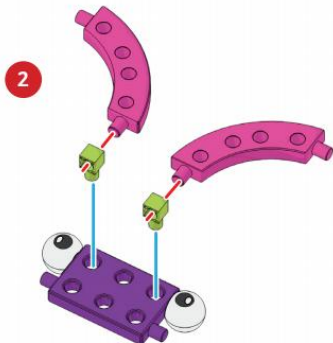
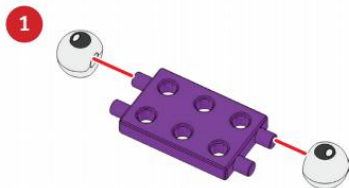
主題製作：昆蟲 Theme Making: Insects

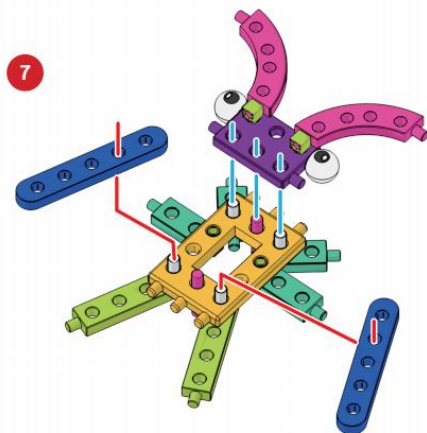
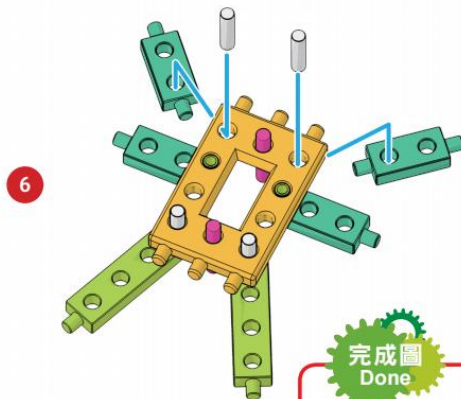
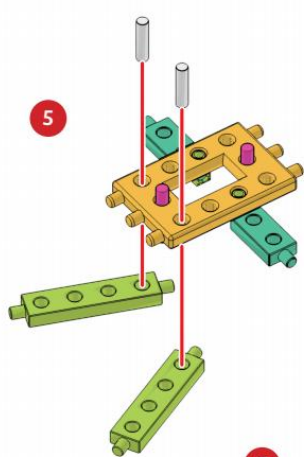
天牛 Longhorned Beetle



零件清單 Parts List

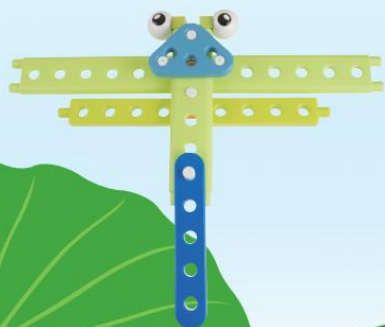
x2	x4	x2	x2	x1
x1	x4	x2	x4	x2





蜻蜓

Dragonfly



零件清單 Parts List

2



x1

4



x2

9



x3

11



x5

14



x2

24



x2

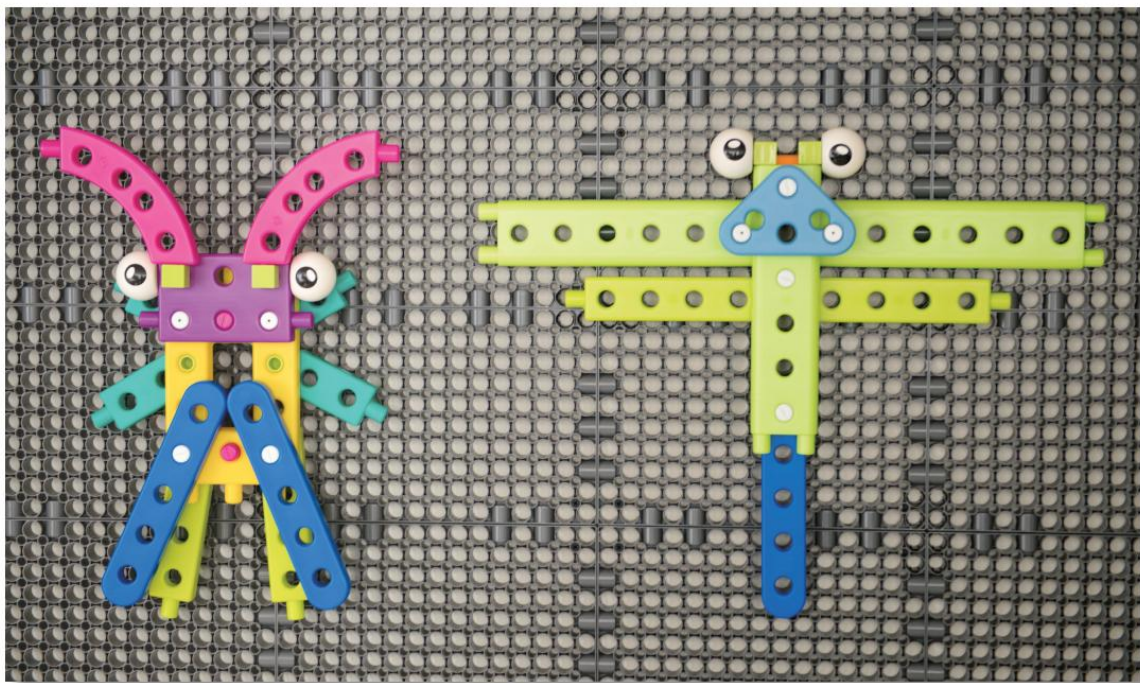
32



x1

3

主題製作：昆蟲 Theme Making: Insects



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

4

主題模型 Theme Model

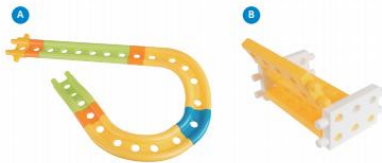
1
飛機
Aircraft



2
分球軌道
Ball Sorting Track



3
螺旋軌道
Spiral Track



4
汽車
Car



5
直升機
Helicopter

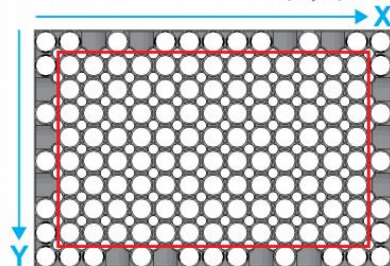


$a =$ 大底盤編號
JUMBO BASE GRID Coordinate

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

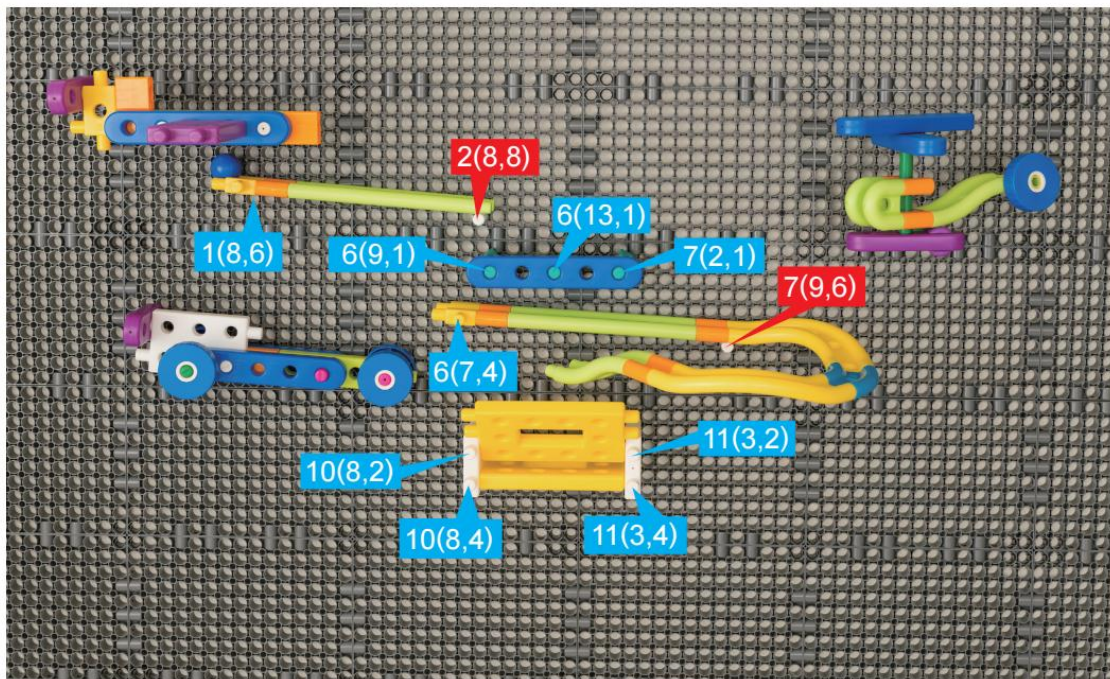
請由紅框內的孔位開始計算位置
Count hole spaces carefully, starting from the lower left hand corner of the the red rectangle.

座標 Coordinate : $a=(X,Y)$



4

主題製作：交通 Theme Making: Traffic



貼心小提醒：
Note:



▪紅色座標為支撐模型的零件。
The pegs in the red boxes support the tracks.



模型操作影片

Model Operation Video

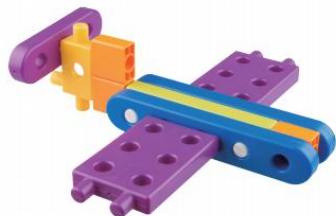
座標僅供參考，依實際組裝為主。

The coordinates given are only an approximation. You may need to tailor your own solution.








4

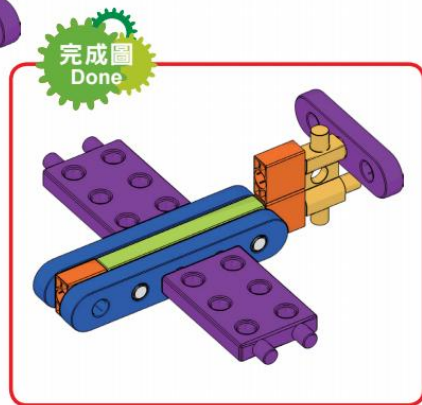
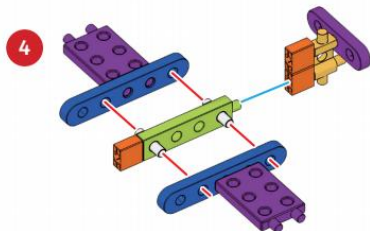
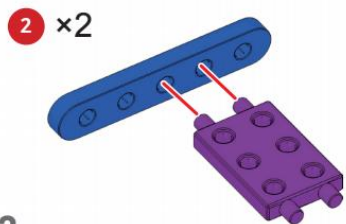
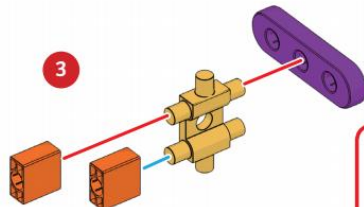
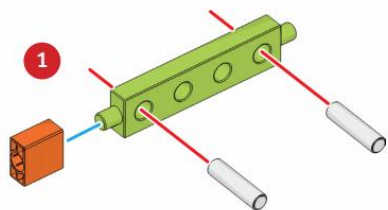
主題製作：交通 Theme Making: Traffic

飛機 Aircraft



零件清單 Parts List

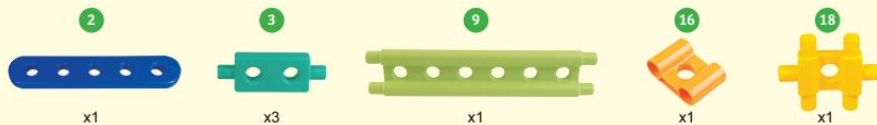
				
x1	x2	x1	x2	x2
				
x3	x1			



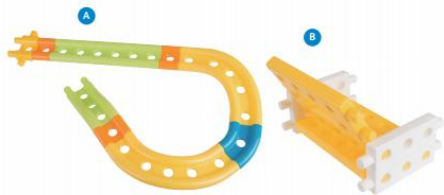
分球軌道 Bull Sorting Track



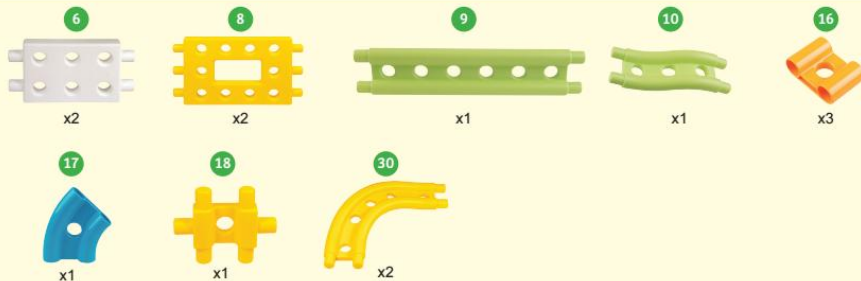
零件清單 Parts List



螺旋軌道 Spiral Track



零件清單 Parts List












4

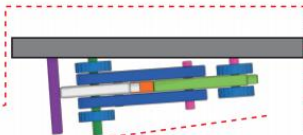
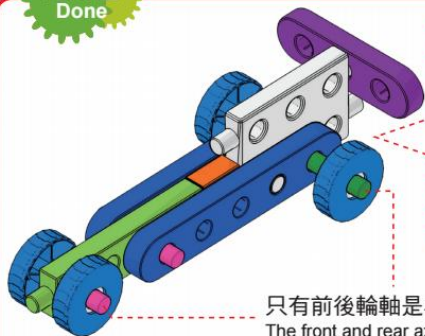
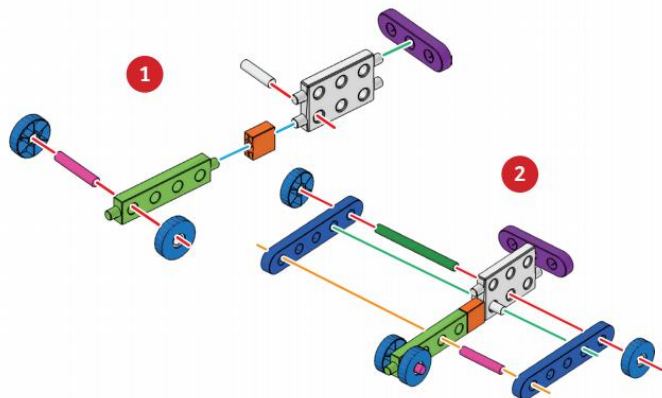
主題製作：交通 Theme Making: Traffic

汽車 Car



零件清單 Parts List

			
x1	x2	x1	x1
			
x2	x2	x1	x1
			
			x4



與大底盤結合時是傾斜的
The car body is tilted when
connected to the jumbo base grid.

只有前後輪軸是與大底盤的接點
The front and rear axle is the only contact
point with the jumbo base grid.

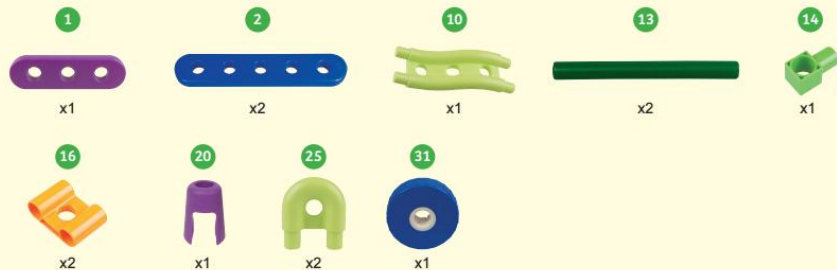
直升機 Helicopter

正面圖
FROM VIEW



背面圖
BACK VIEW

零件清單 Parts List



5

主題模型 Theme Model

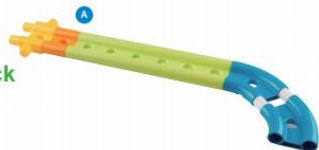
1
魚
Fish



2
燈籠魚
Angler Fish



3
彎曲軌道
Curved Track



4
翹翹板
Seesaw



5
海馬
Seahorse



6
水母
Jellyfish

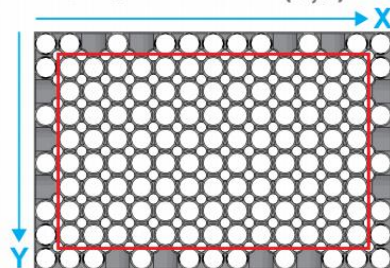


$a =$ 大底盤編號
JUMBO BASE GRID Coordinate

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

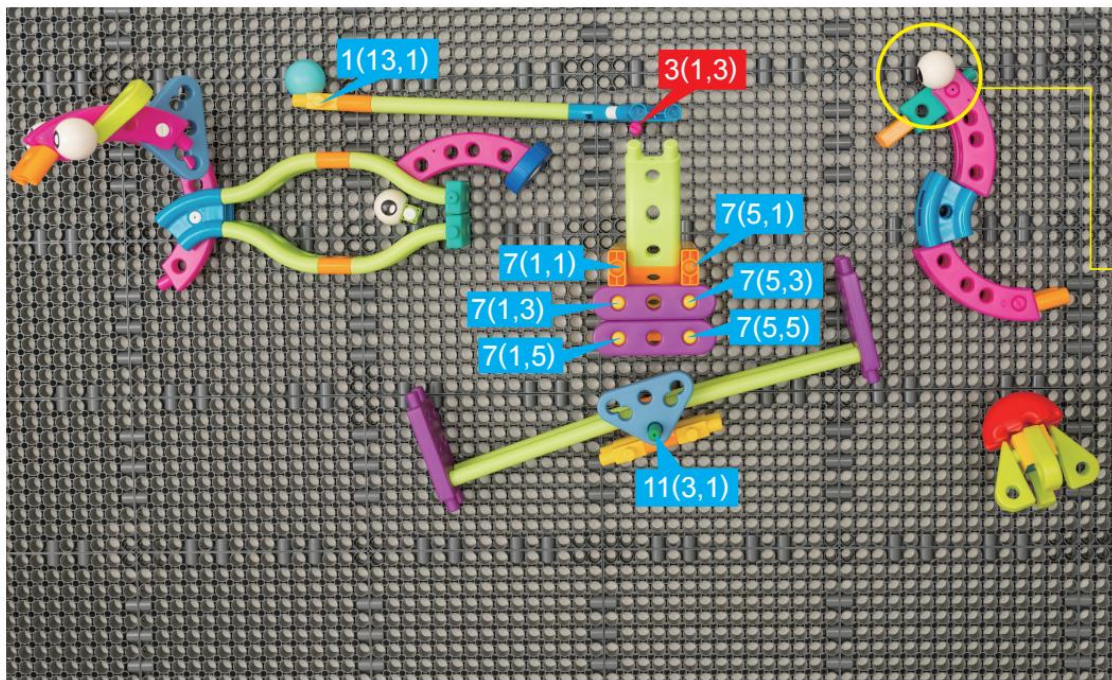
請由紅框內的孔位開始計算位置
Count hole spaces carefully, starting from the lower left hand corner of the the red rectangle.

座標 Coordinate : $a=(X,Y)$



5

主題製作：海底世界 Theme Making: Underwater World



貼心小提醒：
Note:

■紅色座標為支撐模型的零件。
The pegs in the red boxes support the tracks.



■海馬與底盤結合時，僅需一側的眼睛。
While installing the seahorse on the jumbo grid wall, only one side of eye is necessary.



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. You may need to tailor your own solution.

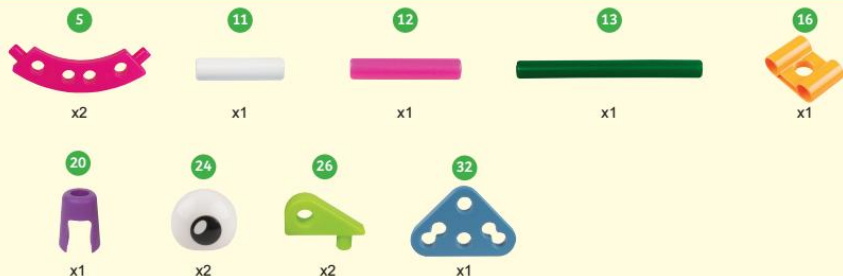
5

主題製作：海底世界 Theme Making: Underwater World

魚 Fish



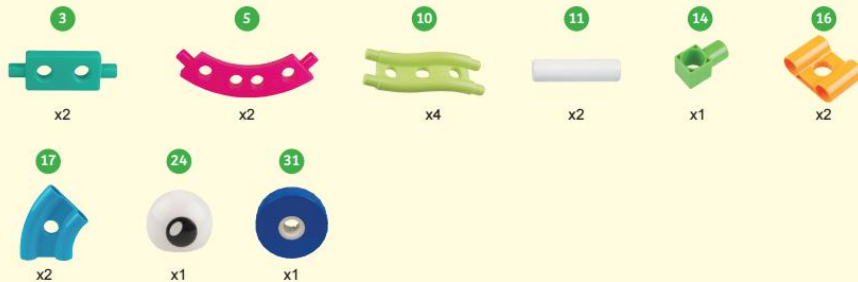
零件清單 Parts List



燈籠魚 Angler Fish

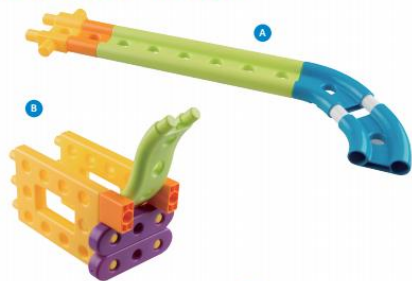


零件清單 Parts List












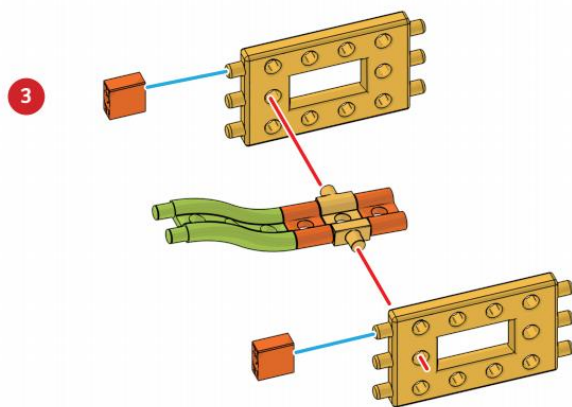
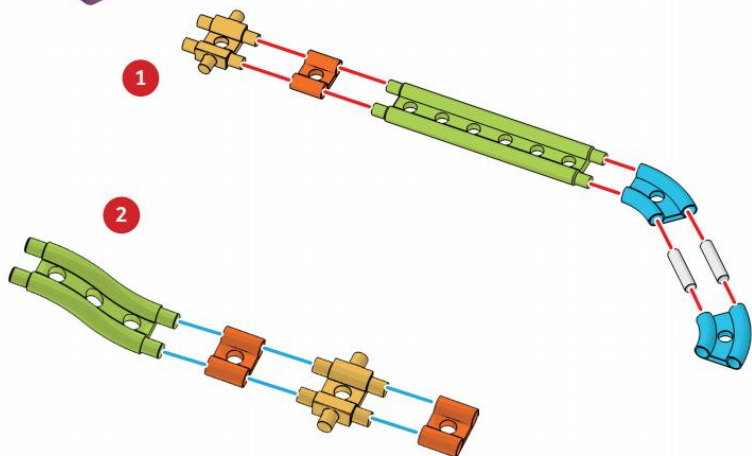
彎曲軌道

Curved Track



零件清單 Parts List

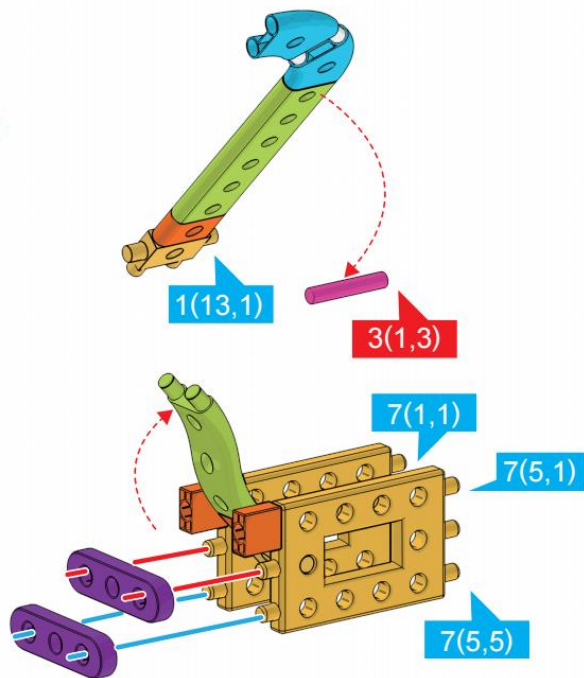
1  x2	8  x2	9  x1	10  x1	11  x2
15  x2	16  x3	17  x2	18  x2	



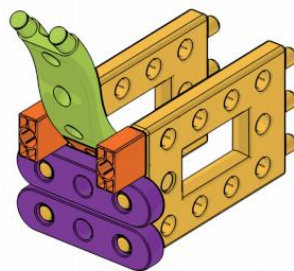
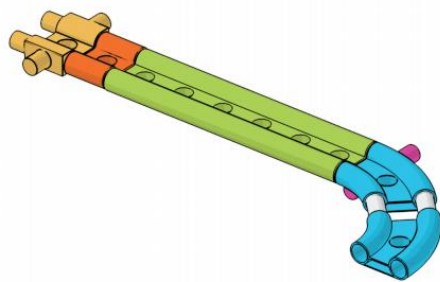
彎曲軌道

Curved Track

4



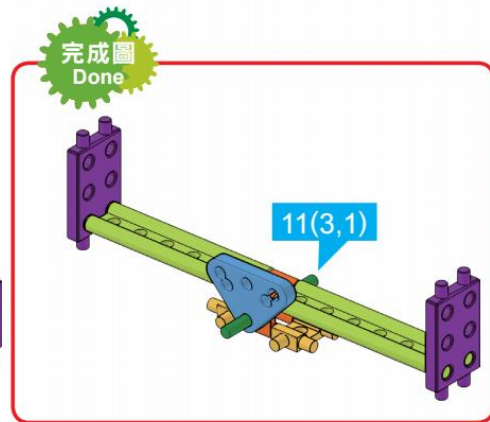
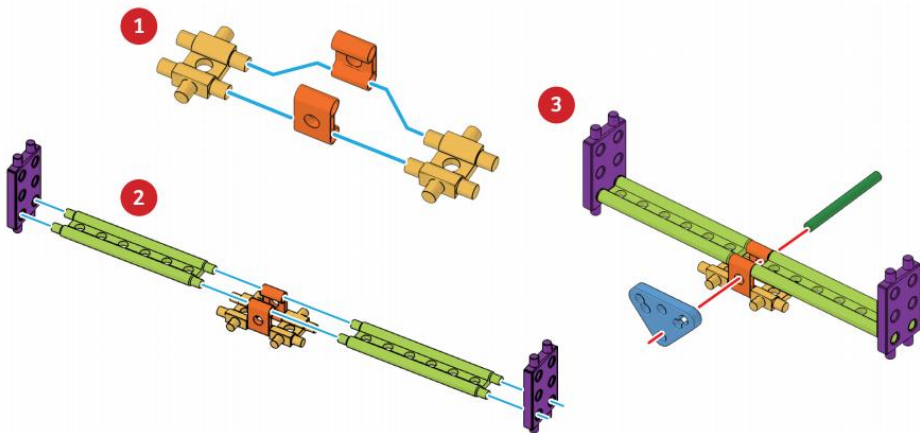
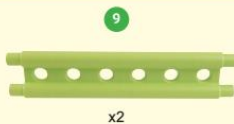
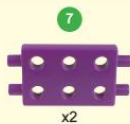
完成圖
Done



翹翹板 Seesaw



零件清單 Parts List



5

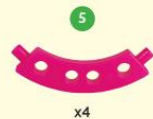
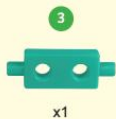
主題製作：海底世界 Theme Making: Underwater World

海馬

Seahorse



零件清單 Parts List



水母

Jellyfish

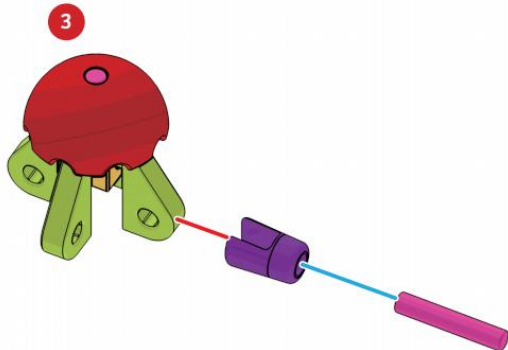
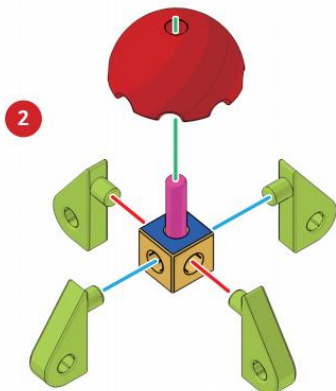
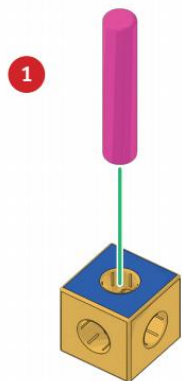


零件清單 Parts List



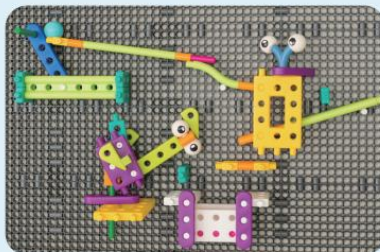
水母

Jellyfish





#1403
創客牆-方塊積木組 MAKER WALL
80組模型 80 Models



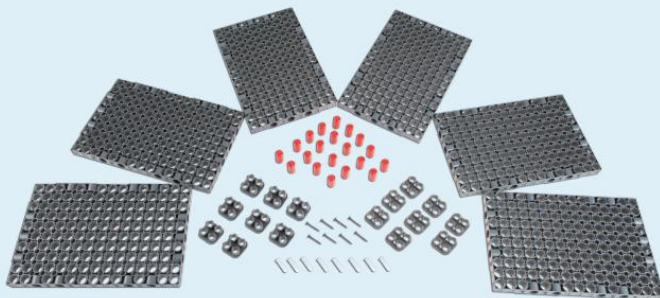
#1404
創客牆-軌道積木組 TRACK WALL
30組模型 30 Models



#1405
創客牆-齒輪積木組 GEAR UP WALL
30組模型 30 Models

創意大底盤組 Jumbo Base Grid

#T036R | 58PCS



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