



CREATIVE FLEXI-TUBE & MOTOR KIT STEAM 創意動能 彎管積木組

TEACHING AID

3+

#1280

202 PCS

做中玩、玩中學

LEARN THROUGH PLAY

40 MODELS
TO BUILD



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主題一：幾何遊戲 P.5 [Theme One] Geometry Games

- 1 形狀 Shape
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- 2 立體 Three-dimensional
帳篷 Tent、行李拖車 Luggage Trailer
- 3 組合 Combination
娃娃 Doll、鎖鏈 Chain、
水果籃 Fruit Basket

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- 1 果實 Fruit
香蕉 Banana
- 2 樹 Tree
灌木叢 Bush、椰子樹 Coconut Tree
- 3 花 Flowers
海芋 Calla Lily、向日葵 Sunflower、
雞蛋花 Frangipani
- 4 常見植物盆栽 Common
House Plants
鳳尾蕨 Spider Brake Fern、
空氣鳳梨 Tillandsia、盆栽 Potted Plant

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- 1 飛行 Flying
蛾 Moth、蚊子 Mosquito、螢火蟲 Firefly
- 2 爬行 Crawling
毛毛蟲 Caterpillar、具足蟲 Giant Isopod、
黃金龜 Dung Beetle
- 3 步行 Walking
南洋兜蟲 Atlas Beetle、鍬形蟲 Stag Beetle、
獨角仙 Rhinoceros Beetle
- 4 容易混淆成昆蟲的其他動物
Species Commonly Mistaken
for Insects
蚯蚓 Earthworm、蝸牛 Snail、
蜘蛛 Spider

主題四：生活科技 P.45 [Theme Four] Life Technology

- 1 機器 Machine
手臂機器人 Arm Robot、水管機器人 Tube
Robot、歪頭機器人 Head-Tilting Robot
- 2 娛樂 Entertainment
手拉壞機 Wheel-Throwing Machine、
刨冰機器人 Ice-Shaving Machine、電影
放映機 Film Projector
- 3 工具 Tool
學步車 Baby Walker、灑水車 Sprinkler
Car、巡邏機器人 Patrol Robot
- 4 便利 Convenience
電風扇 Electric Fan、打磨機 Grinder、
輸送帶 Conveyor Belt

特色：

- 全新設計的彎管，增加造型變化，促進孩子的想像力。
- 全新設計的馬達與鍊條，馬達可正轉、反轉，提供動力，讓小朋友體驗模型間傳動的魅力。
- 在遊戲中，認識不同的主題：幾何形狀、植物、昆蟲與生活科技，共有 40 款不同有趣的模型。
- 豐富的主題與由淺入深的模型設計，可搭配智高創意、學習實驗室系列及智高積木牆等一起使用。

Features:

- Brand new flexi-tube component opens up new avenues for design and play. Increase the variety of models you can make, and fuel your imagination!
- An all new motor-and-chain system can show clockwise and counter-clockwise rotation. The on/off switch lets children easily control the power, so children can uncover the secrets of gears and transmissions.
- Build models while learning about specific themes: geometry, plants, insects, and technology in daily life. There are total 40 models available to help you explore these themes.
- A rich variety of model designs, for a range of ability levels. Compatible with Gigo Creative Lab, Fun Lab, Learning Lab, and the Jumbo Base Grid Wall.



重要資訊 IMPORTANT INFORMATION

安全資訊

警告！本套組不適合 3 歲以下的幼童使用。
其中包含細小零件可能被幼童吞嚥或吸入，產生窒息危險。
因內含重要訊息，請將包裝盒與說明書妥善保存。

電池的安全建議

- » 為了操作模型，您需要兩個 AA 電池 (1.5 伏特，LR6 型)，因電池有其保存期限，故本套組包裝內不包含電池。
 - » 供電終端不得短路。短路會導致導線過熱並導致電池爆炸。
 - » 不同類型的電池（如可充電電池和標準電池）或新電池和舊電池不得混用。
 - » 請勿混用舊電池和新電池。
 - » 請勿混用鹼性，標準（碳鋅）或可充電（鎳鎘）電池。
 - » 電池將以正確的極性插入。輕輕地將它們按入電池盒。
 - » 請務必用蓋子關閉電池盒。
 - » 非充電電池不能被充電。若強行充電，可能會導致電池爆炸！
 - » 請在成人監督下，對充電電池進行充電。
 - » 在充電前，請將充電電池從電池盒取出。
 - » 請將耗盡的電池從電池盒中取出。
 - » 請按照環保規定處理廢舊電池，勿將廢舊電池丟入家庭的一般垃圾桶。
 - » 請勿將電池與硬幣，鑰匙或其他金屬物體接觸。
 - » 請避免電池變形。
- 由於部分的模型中都有使用電池，在孩童組裝模型時，請由成人檢查模型，確保孩童已正確的組裝。請全程在成人的陪同下操作模型。
- » 如果長時間不使用本套組的模型，請取出電池。

電子及電氣設備廢棄物處理說明

該產品的電子設備屬於可回收利用的垃圾。為了環保，在電子設備壽命結束時，請不要把它們丟入家庭一般垃圾。必須將其交付給電子垃圾回收站，如右圖所示：請聯繫當地政府的相關處理場所。



Safety Information

Warning! Not suitable for children under 3 years. Choking hazard — small parts may be swallowed or inhaled.

Keep the packaging and the instructions as they contain important information.

Safety Advice for Batteries

- » To operate the models, you will need two AA batteries (1.5-volt, type AA/LR6), which could not be included in the kit due to their limited shelf life.
 - » Avoid a short circuit of the batteries. A short circuit can cause the wires to overheat and the batteries to explode.
 - » Different types of batteries or new and used batteries are not to be mixed.
 - » Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.
 - » Batteries are to be inserted with the correct polarity. Press them gently into the battery compartment.
 - » Always close battery compartments with the lid.
 - » Non-rechargeable batteries are not to be recharged. They could explode!
 - » Rechargeable batteries are only to be charged under adult supervision.
 - » Rechargeable batteries are to be removed from the toy before being charged.
 - » Exhausted batteries are to be removed from the toy.
 - » Dispose of used batteries in accordance with environmental provisions, not in the household trash.
 - » Be sure not to bring batteries into contact with coins, keys, or other metal objects.
 - » Avoid deforming the batteries.
- As some models use batteries, have an adult check the models before use to make sure they are assembled properly. Always operate the motorized models under adult supervision.
- » Please remove the batteries if the toy is likely to be unused for a long time.

Notes on Disposal of Electrical and Electronic Components

The electronic components of this product are recyclable. For the sake of the environment, do not throw them into the household trash at the end of their lifespan. They must be delivered to a collection location for electronic waste, as indicated by the following symbol:

Please contact your local authorities for the appropriate disposal location.





重要資訊 IMPORTANT INFORMATION

親愛的家長：

在這學習套組中包含故事引導、提問練習還有組裝說明，提供學齡前的幼兒認識生活周遭的世界與學習簡單的工程概念。

在組裝模型時，孩子們的小手可以輕易地抓取大尺寸積木，組裝出各種不同的模型。

組裝模型是以搭建的方式一個步驟接著一個步驟地進行，這需要一點的練習及耐心。

當孩子需要您的幫忙時請協助他，但同時也讓他們自己試著去組裝出模型。您的孩子會很樂意有您的幫忙，特別是在遇到某些困難點時。

我們希望您及您的孩子都可以獲得組裝、探索及學習的樂趣！

如何正確使用伸縮圓管

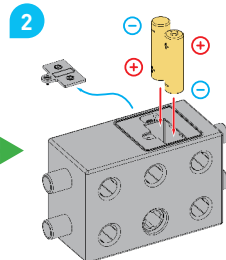
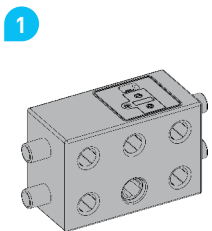
How to use the FLEXI-TUBE properly



1. 請溫柔地彎折圓管。避免過度用力擠壓圓管，擠壓變形後雖然可恢復，但會改變彈性。
 2. 避免讓液體流入圓管，因圓管皺褶較多，水分不易揮發。
1. Gently bend the tube without over-squeezing, as excessive deformation can affect its elasticity, even if it's recoverable.
2. Keep liquids out of the tube to prevent moisture retention due to its wrinkles.

如何放入和取出電池

How to insert and remove the batteries



使用 3.5mm 螺絲起子來轉開蓋子，才能打開電池盒。放入兩顆 AA 電池。確保按照指示的方向，符合正確極性，將正極和負極端裝入電池盒，然後關上蓋子。需先裝上電池，再進行模型組裝。當需要更換電池時，請取出舊電池並以正確的極性放入新電池。

Open the battery compartment with 3.5mm screwdriver. Insert two AA batteries. Make sure you fit the positive and negative ends into the compartment in the direction indicated (with the correct polarity). Then close the compartment. The batteries need to be inserted first, and then we can assemble the models. When it is time to replace the batteries, remove the old batteries and insert the new ones with the correct polarity.

Dear Parents,

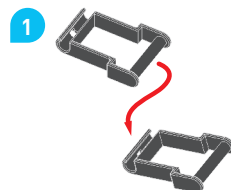
In this learning set, you will find story guides, questioning exercises, and assembly instructions designed to help preschoolers know about the world around them and introduce simple engineering concepts.

As assembling the models, children can easily grasp parts and make different models. The assembly process is conducted step by step, similar to construction. It may require some practice and patience. We encourage you to assist your kids when needed, while also allowing them to try assembling the models on their own. Your kids will enjoy having your support, especially during more challenging parts.

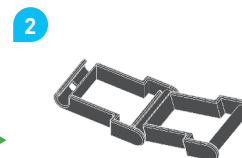
Our goal is for you and your kids to have fun while building, discovering, and learning!

如何連接鏈條

How to connect the chains



將棒頭的其中一面插入棒孔。
Insert one side of the tabs into the slots.

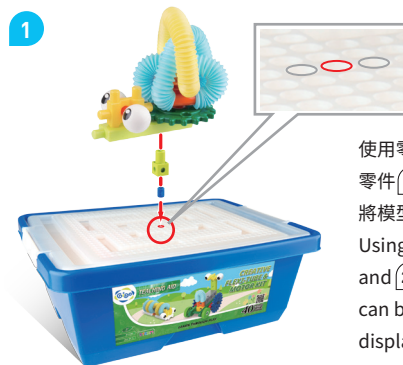


將棒頭的第二面插入棒孔。
Insert the second side of the tabs into the slots.



如何將模型固定在收納箱上

How to fix the model onto the lid of storage box



使用零件 (27) 多向轉接器和零件 (28) 短結合鍵，可如圖示將模型固定於桶蓋上陳列展示。

Using parts (27) 2cm CUBE PEG and (28) SHORT PEG, the model can be fixed onto the lid for display as shown.



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.
○ 1	7330-W11-E1R	A-3孔圓長條	A-3 HOLE ROUND ROD	4
○ 2	7330-W11-D1G	A-5孔圓長條	A-5 HOLE ROUND ROD	4
○ 3	7330-W11-H1G	A-2孔長條	A-2 HOLE ROD	2
○ 4	7330-W11-I1G	A-4孔長條	A-4 HOLE ROD	3
○ 5	7330-W11-J1P	A-4孔1/4弧長條	A-4 HOLE BENDED ROD	2
○ 6	7330-W11-C1W	A-2×3孔長方框	A-2×3 HOLE BASE	2
○ 7	7330-W11-X1W	A-60mm圓棒	A-60mm CONNECTOR	8
○ 8	7330-W11-A1R	A-80mm圓棒	A-80mm CONNECTOR	2
○ 9	7330-W11-B1G	A-160mm圓棒	A-160mm CONNECTOR	2
○ 10	8060-W11-G1D	A-60mm III軸	A-60mm AXLE III	2
○ 11	8060-W11-H1D	A-180mm III軸	A-180mm AXLE III	2
○ 12	7331-W10-A1O	A-軌道結合器	A-TRACK CONNECTOR	4
○ 13	7331-W10-B1O	A-1/8弧軌道結合器	A-CURVED TRACK CONNECTOR	2
○ 14	7331-W10-E1O	A-單孔結合器	A-ROD CONNECTOR	10
○ 15	7330-W11-O1Y	A-單孔固定軌道	A-1 HOLE TRACK	3
○ 16	8036-W85-I1G	A-OD70×20mm塑膠輪	A-OD70 WHEEL	4
○ 17	8060-W85-A1G	A-18T自轉齒輪	A-18T GEAR WITH ADAPTER	2
○ 18	8060-W10-A2B	A-18T齒輪	A-18T GEAR	2
○ 19	7331-W85-L1P	A-6T自轉齒輪	A-6T GEAR WITH ADAPTER	2
○ 20	7331-W10-L2R	A-6T齒輪	A-6T GEAR	2
○ 21	1280-W11-A1Y	A-伸縮圓管	A-FLEXI-TUBE	6
○ 22	1280-W11-A1B	A-伸縮圓管	A-FLEXI-TUBE	6
○ 23	6001-W85-A	A-50倍開關馬達盒	A-MOTOR	1
○ 24	7261-W85-A	A-活動眼球	A-EYE	2
○ 25	E41#6001	A-鍊條	A-CHAIN	100
○ 26	7331-W10-M1G	A-90度結合器	A-LATERAL PEG	6
○ 27	7331-W10-D3G	A-多向轉接器	A-2cm CUBE PEG	8
○ 28	7344-W10-C2R	B-短結合鍵	B-SHORT PEG	8
○ 29	7061-W10-B1Y	B-扳手	B-PEG REMOVER	1

1 幾何遊戲 GEOMETRY GAMES

主題 Theme

在第一個「幾何遊戲」的主題中，孩子可以透過組裝模型與遊戲，認識各種不同的形狀，包括平面和立體的形狀，以及幾何的概念。同時，引導孩子自由地創造出不同的物品，進而培養他們的創造力和想像力。

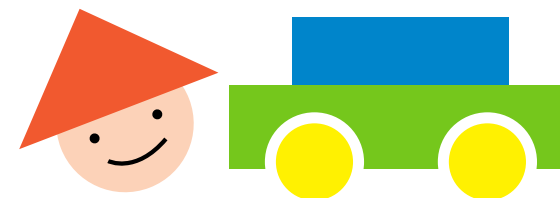
In the first theme, kids get to identify different shapes, both 2D and 3D, and geometric concepts, by playing with models and games. This theme also helps them freely combine and create new things in a fun way, while boosting their creativity and imagination.



故事 Story

你知道嗎？世界上所有的東西，都可以簡化成基本的「幾何圖形」喔！長方形可以是盒子可以是車子、三角形可以是高山也可以是衣架、圓形可以是輪子也可以是飛盤。三角形加圓形，就變成一個戴著帽子的人囉！

Did you know that everything in the world can be simplified into basic geometric shapes? A rectangle can represent a box or a car, a triangle can be a mountain or a hanger, and a circle can be a wheel or a Frisbee. When you combine a triangle and a circle, it can even resemble a person's head with a hat on top.



想想看，日常生活還有哪些東西會看到曲線？曲線與長方形能有什麼組合呢？

Think about it! Where else in your daily life do you encounter curved shapes? And what interesting combinations can you come up with using both curves and rectangles?

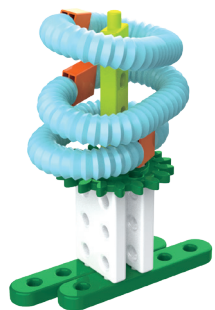
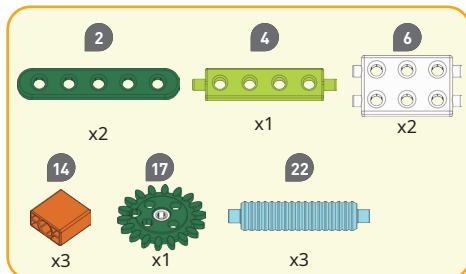


1 主題模型 THEME MODEL

小挑戰！這裡有一些簡單的模型，你可以直接看圖就組裝出來嗎？

Let's give it a try! Here are a few simple models for you to assemble. Take a look at the pictures and see if you can put them together.

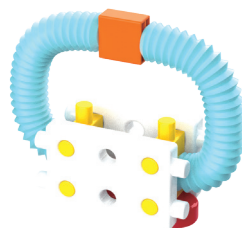
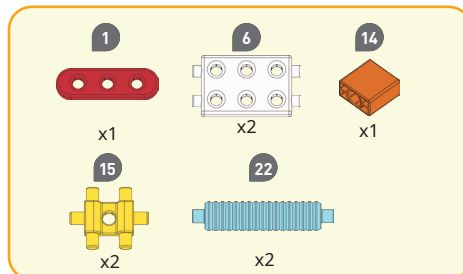
套圈圈 Ring Toss



娃娃 Doll



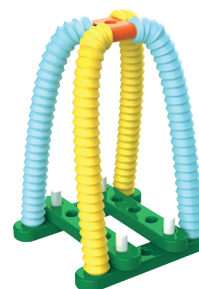
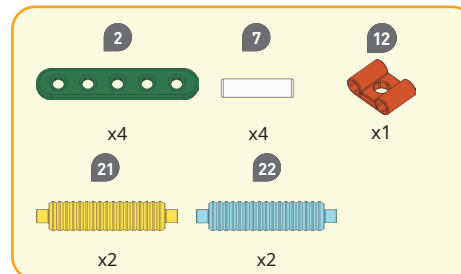
手提包 Handbag



鎖鏈 Chain



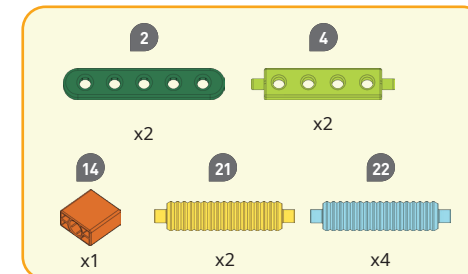
帳篷 Tent



行李拖車 Luggage Trailer



水果籃 Fruit Basket

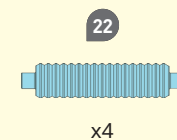
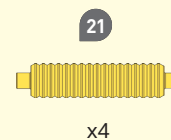
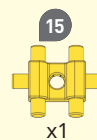
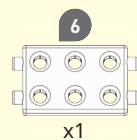
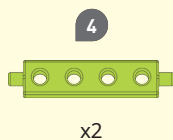


1 幾何遊戲 GEOMETRY GAMES

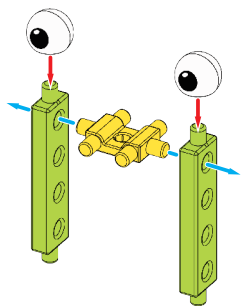
娃娃
Doll



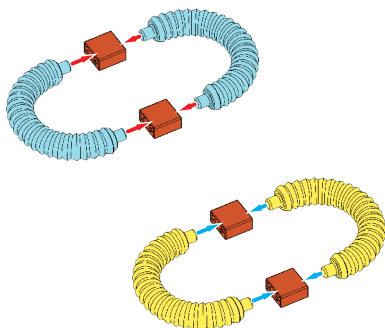
零件清單 Parts List



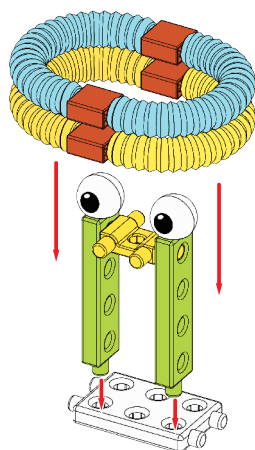
1



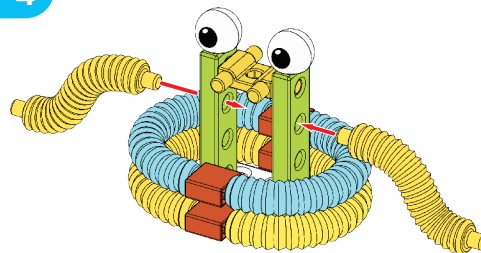
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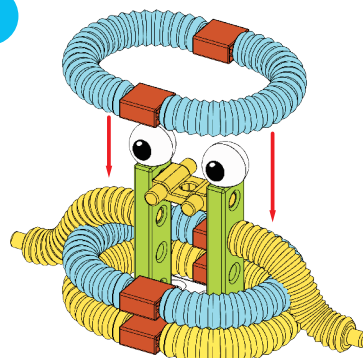
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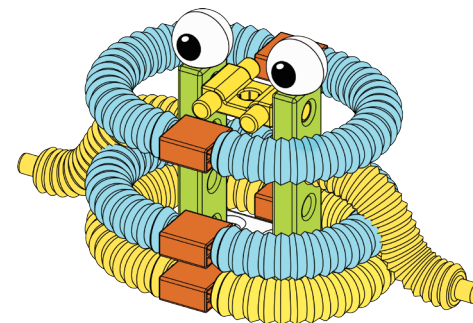
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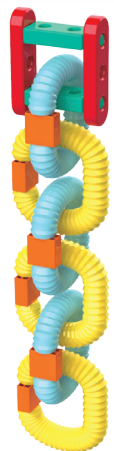
5



完成圖
Done

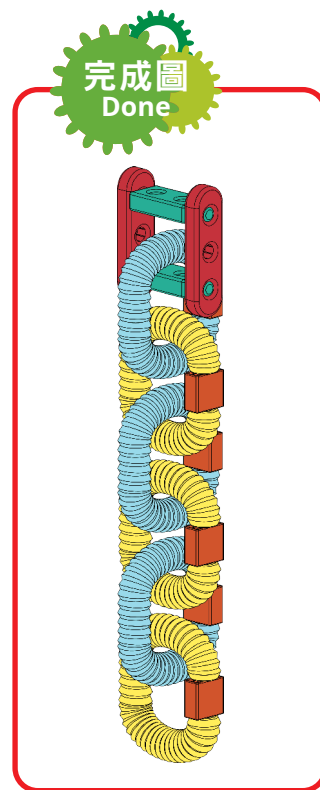
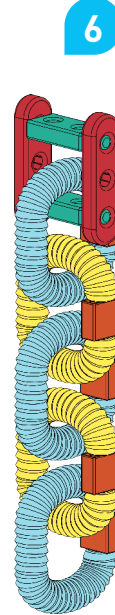
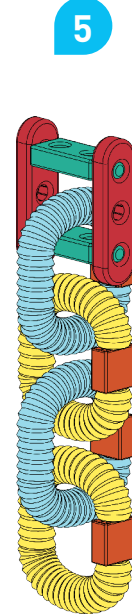
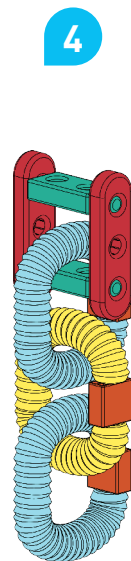
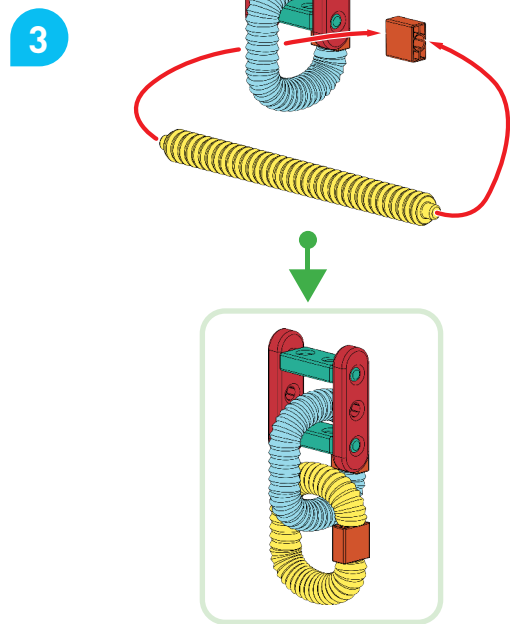
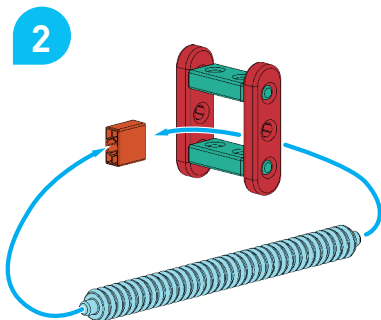
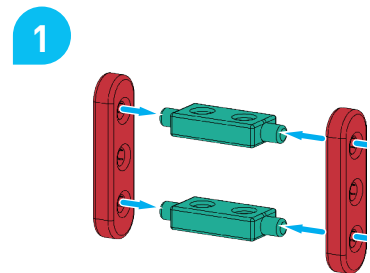


鎖鏈 Chain



零件清單 Parts List

1	3	14	21	22
x2	x2	x6	x3	x3




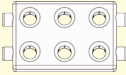



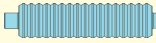


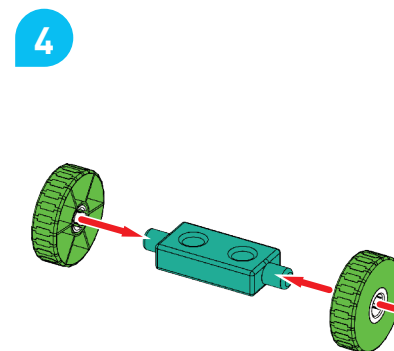
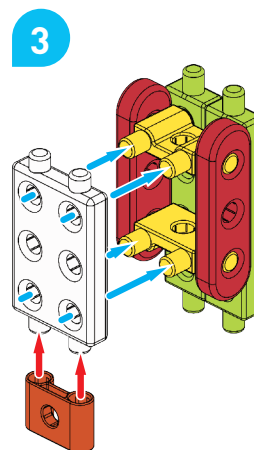
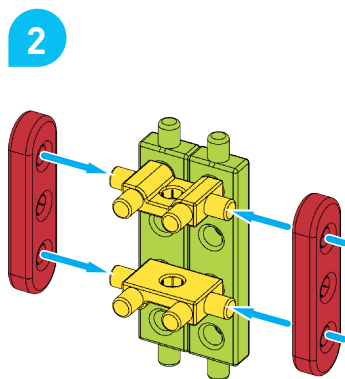
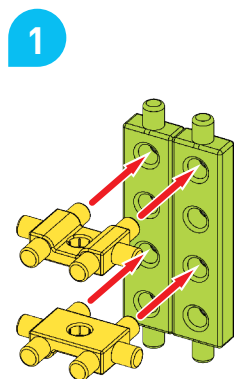
1 幾何遊戲 GEOMETRY GAMES

行李拖車 Luggage Trailer

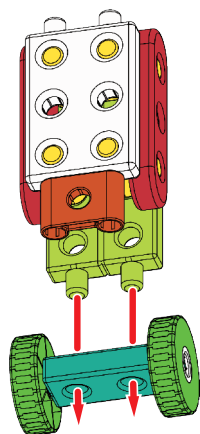


零件清單 Parts List

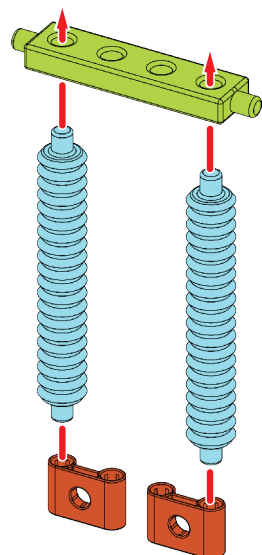
1	3	4	6	12	15	16	22
							
x2	x1	x3	x1	x3	x2	x2	x2



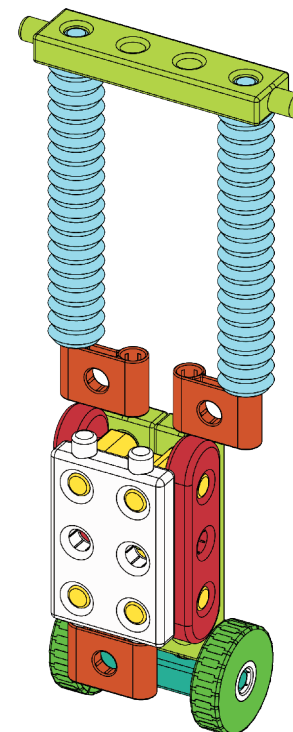
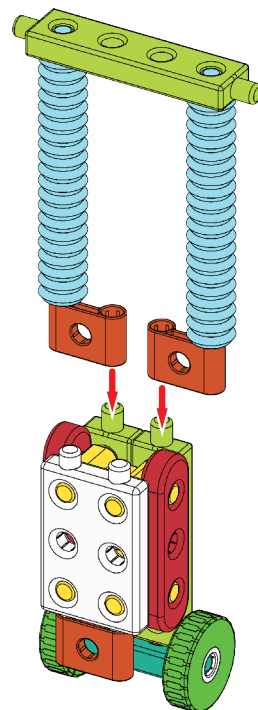
5



6



7



2 植物觀測 PLANT OBSERVATION

主題 Theme

在第二個「植物觀測」的主題中，孩子可以透過組裝模型與遊戲，認識各種不同的植物，包括植物的常見構造和一些容易照顧的蕨類與盆栽。同時，引導孩子探索植物適合的環境與生態知識。透過這個主題，孩子可以在遊戲中認識到植物的美與環境保護的議題，也能夠培養孩子的觀察力與責任感。

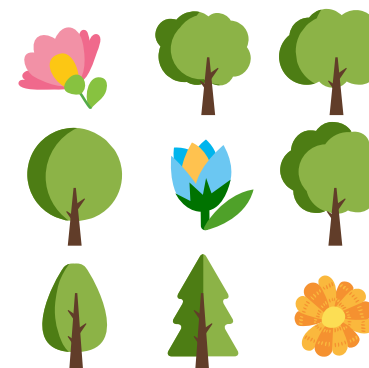
In the second theme, children explore various plants through model assembly and games. They learn about plant structures and discover some house plants like ferns. We also encourage discussions on the environment and ecological knowledge. This theme fosters appreciation for plants, environmental awareness, observation skills, and responsibility.



故事 Story

走走走走走，我們小手拉小手一起去公園。公園裡有各種植物，有矮的灌木、高大的榕樹，若是花季，還會看到一些可愛的花朵。你喜歡小花、小草還是大樹呢？不管是哪一種，都是大自然的禮物喔！開花之後，通常會有果實。小朋友，你吃過哪些水果或堅果呢？

Let's go together to the park! There, you'll see various plants, from small bushes to tall banyan trees. When the flowers bloom, it's a breathtaking sight. Do you prefer flowers, grass, or trees? Nature has gifted us with all of them! And after the flowers, we're often treated to delicious fruits. Have you ever tried tasty fruits or nuts?



想想看，如果植物不見了，會發生什麼事？

Think about it. What would happen if the plants were all gone?

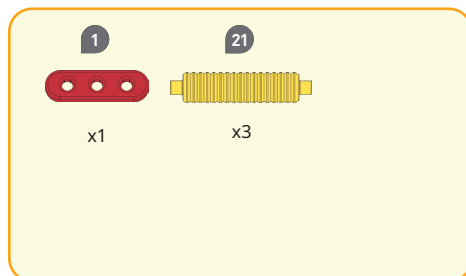


2 主題模型 THEME MODEL

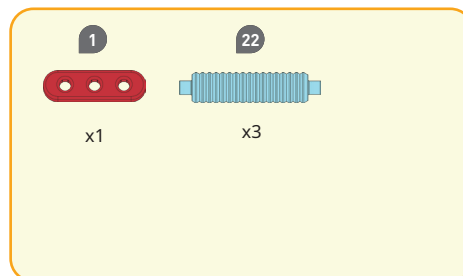
小挑戰！這裡有一些簡單的模型，你可以直接看圖就組裝出來嗎？

Let's give it a try! Here are a few simple models for you to assemble. Take a look at the pictures and see if you can put them together.

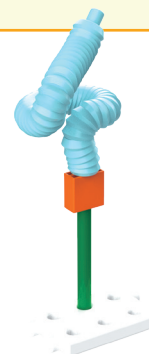
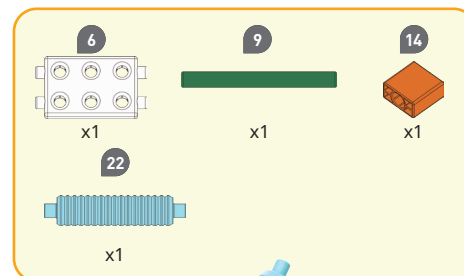
香蕉 Banana



鳳尾蕨 Spider Brake Fern



海芋 Calla Lily



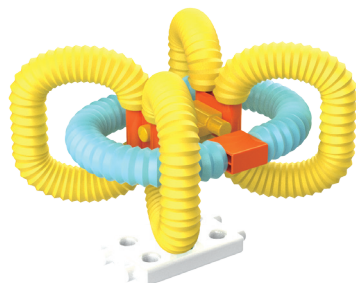
空氣鳳梨 Tillandsia



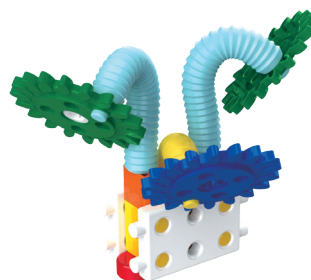
向日葵 Sunflower



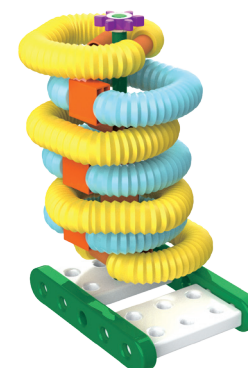
雞蛋花 Frangipani



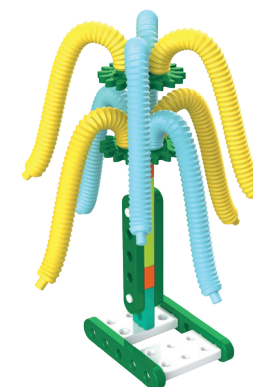
盆栽 Potted Plant



灌木叢 Bush

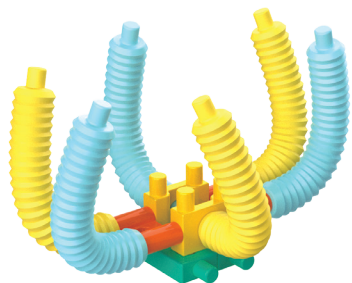


椰子樹 Coconut Tree





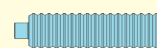


2 植物觀測 PLANT OBSERVATION

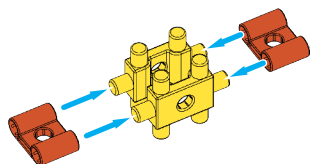
空氣鳳梨
Tillandsia



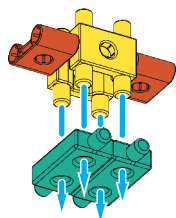
零件清單 Parts List

				
x2	x2	x2	x3	x3

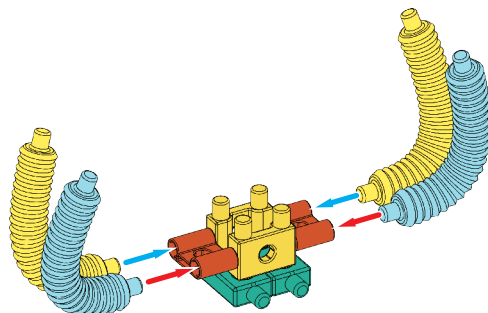
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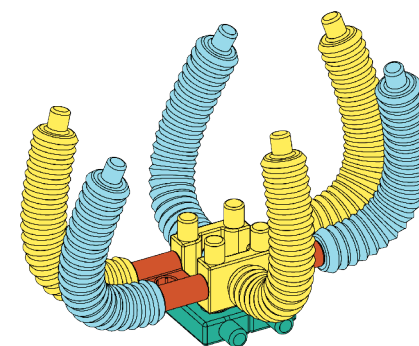
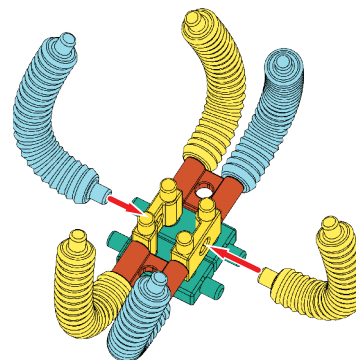
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3












4

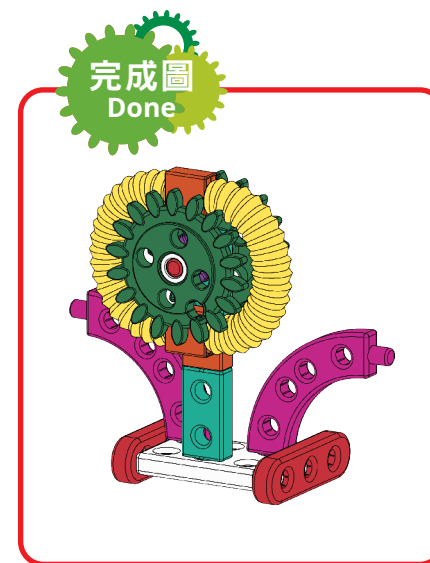
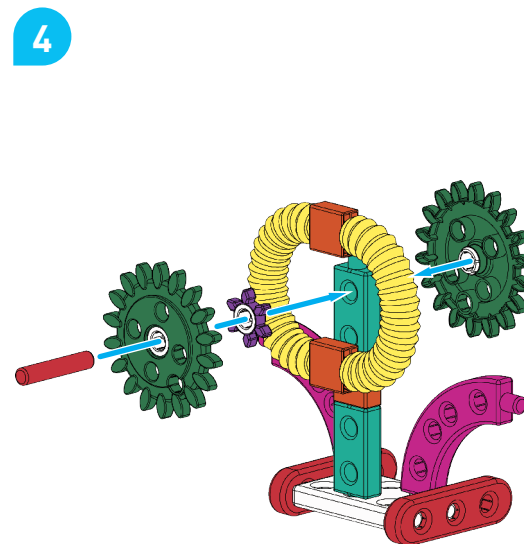
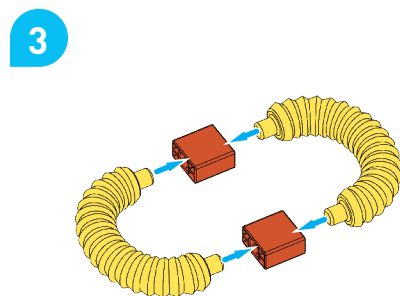
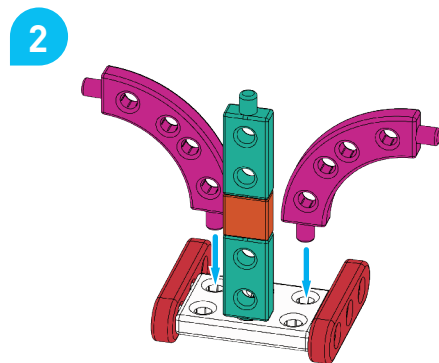
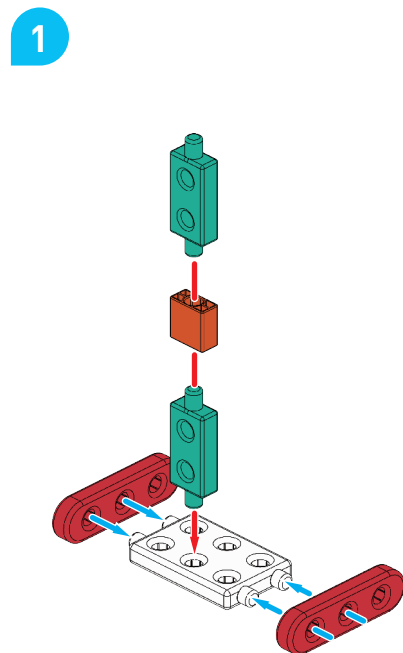


向日葵 Sunflower



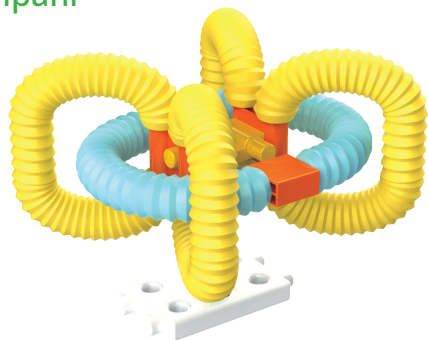
零件清單 Parts List

1 	3 	5 	6 	8 	14 	17 
x2	x2	x2	x1	x1	x3	x2
19 	21 					
x1	x2					

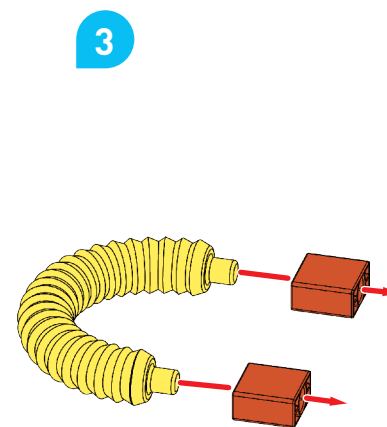
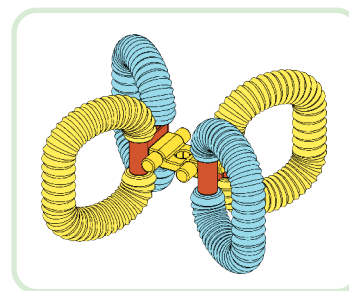
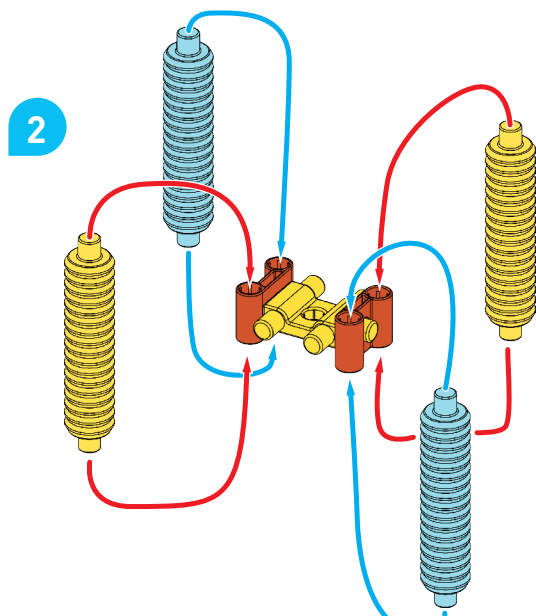
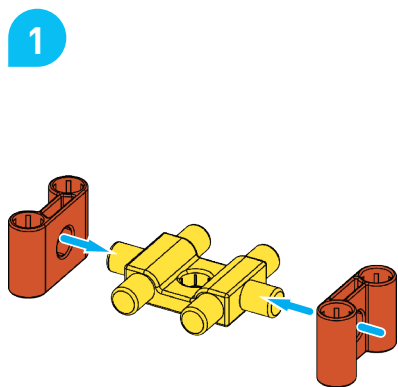
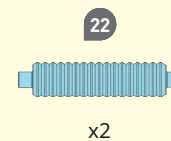
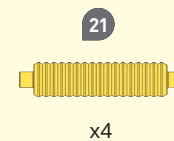
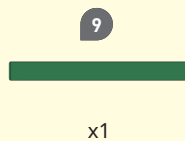
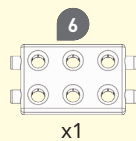


2 植物觀測 PLANT OBSERVATION

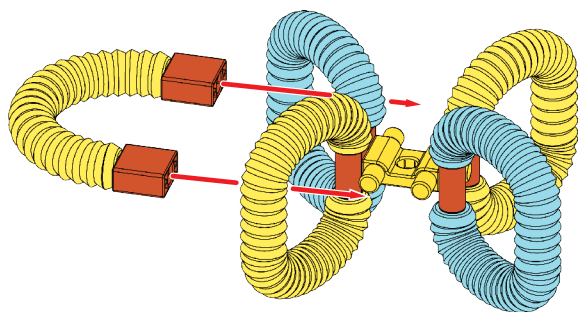
雞蛋花
Frangipani



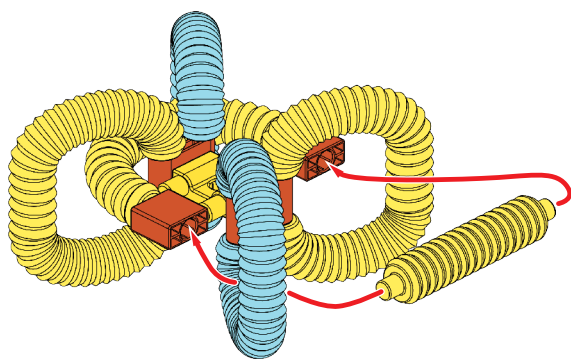
零件清單 Parts List



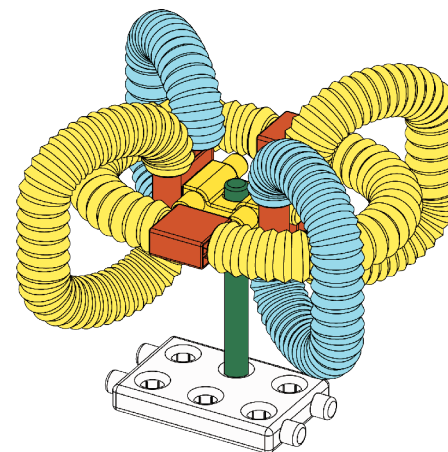
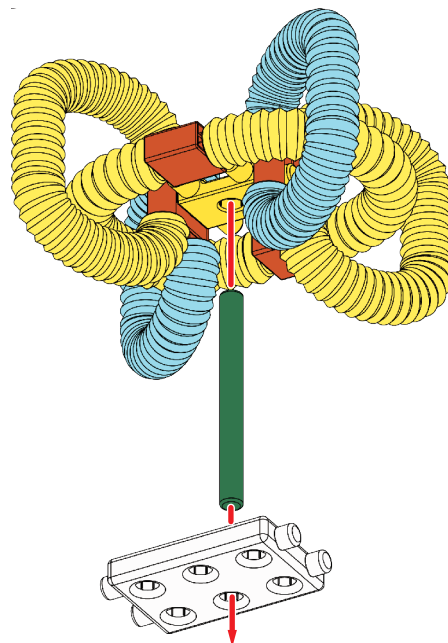
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5

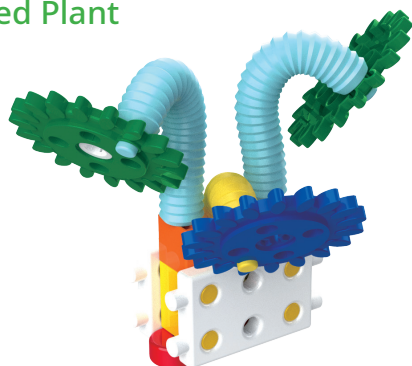


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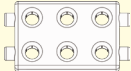





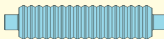


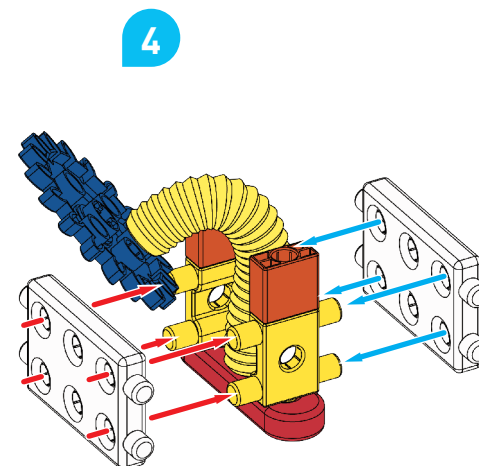
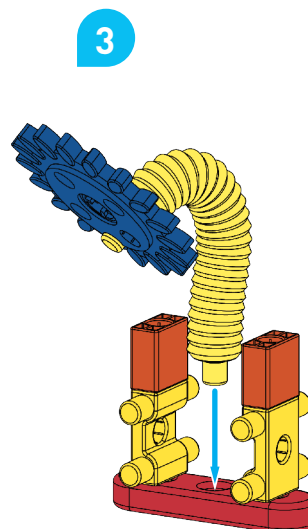
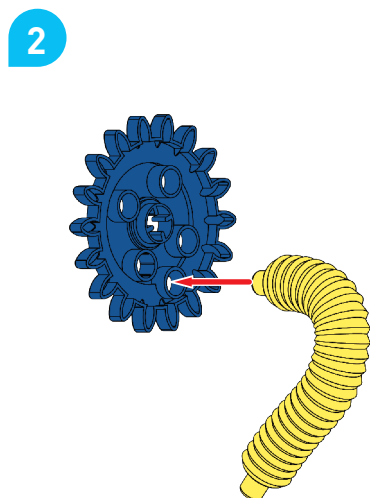
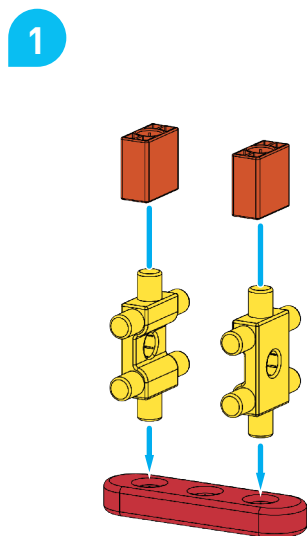
2 植物觀測 PLANT OBSERVATION

盆栽 Potted Plant

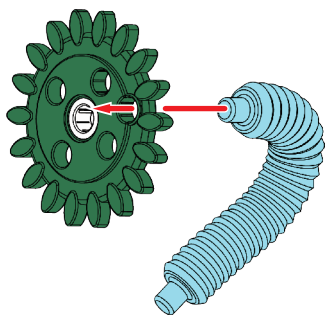


零件清單 Parts List

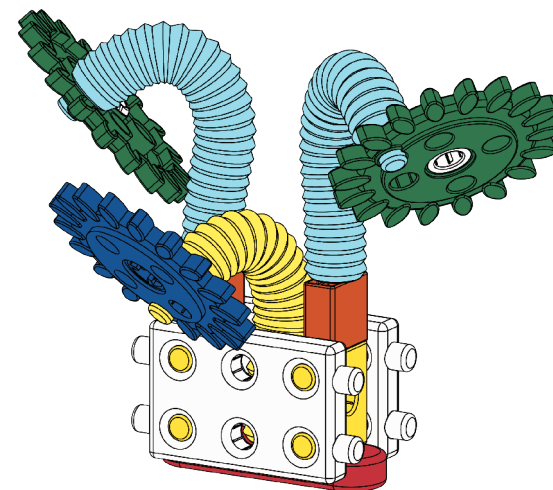
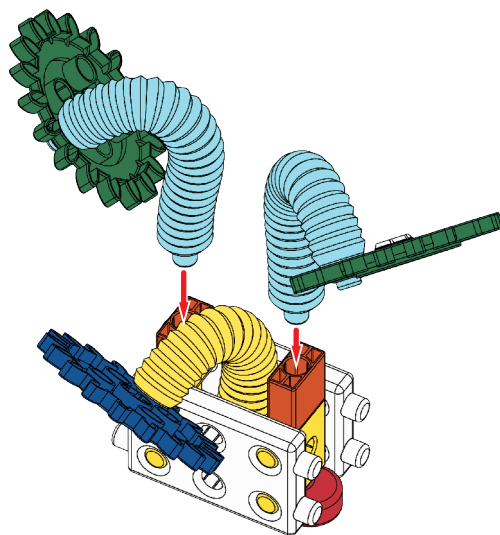
					
x1	x2	x2	x2	x2	x1
					
x1	x2				



5 ×2



6



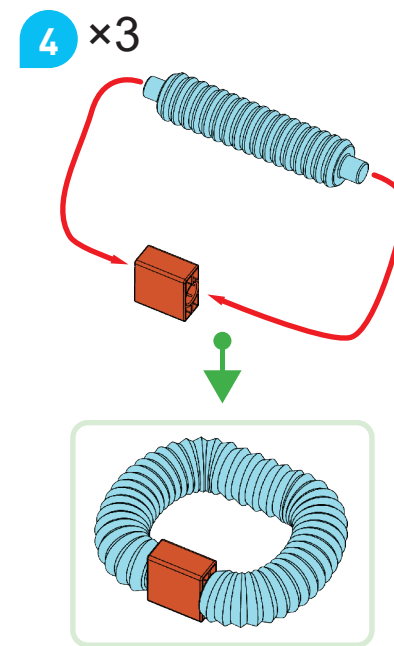
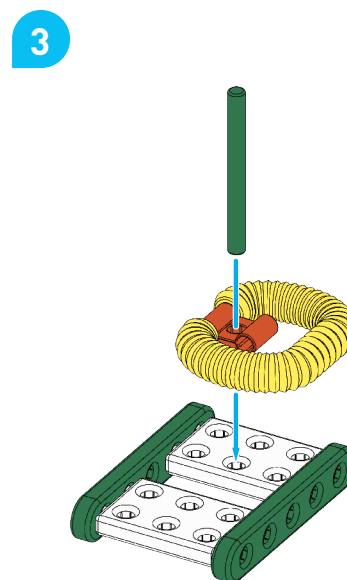
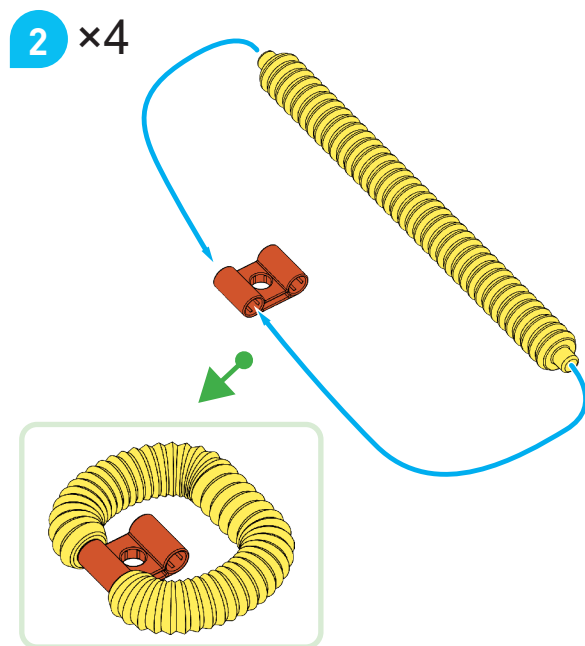
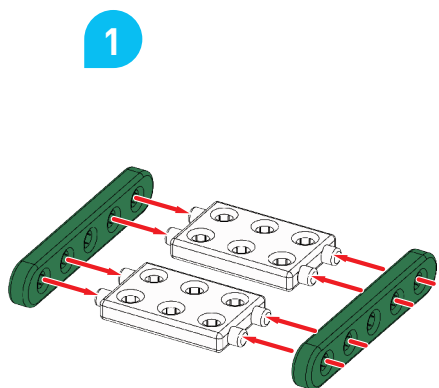
2 植物觀測 PLANT OBSERVATION

灌木叢
Bush

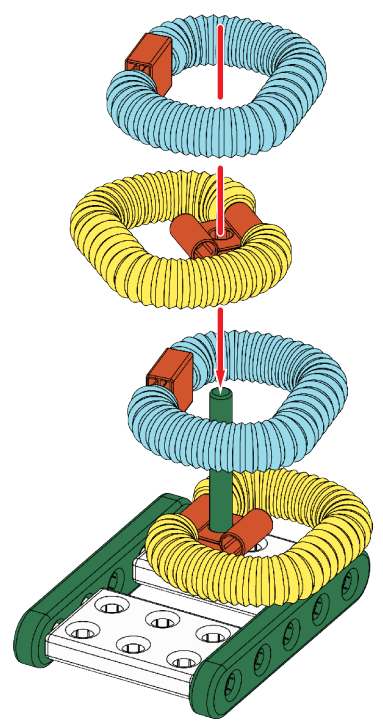


零件清單 Parts List

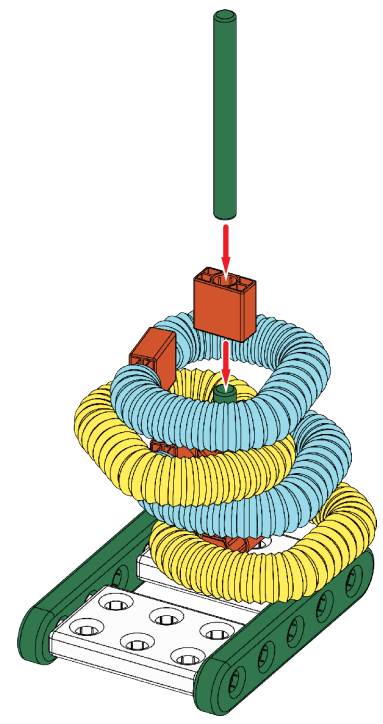
2 	6 	9 	12 	14 	19
x2	x2	x2	x4	x4	x1
21 	22 				
x4	x3				



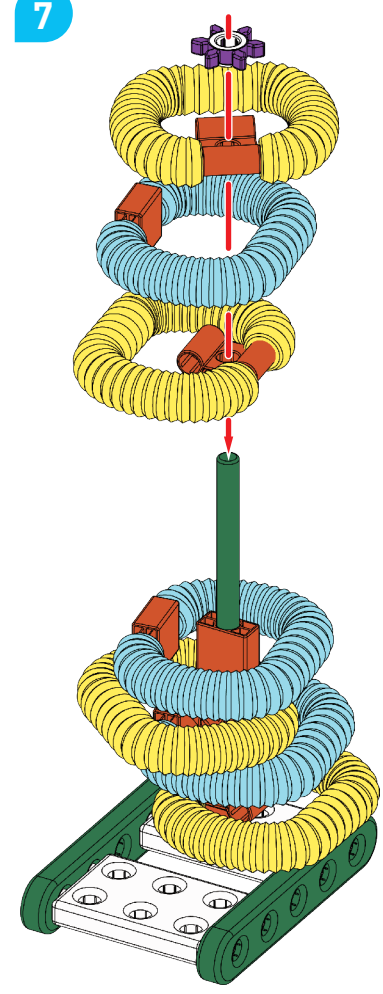
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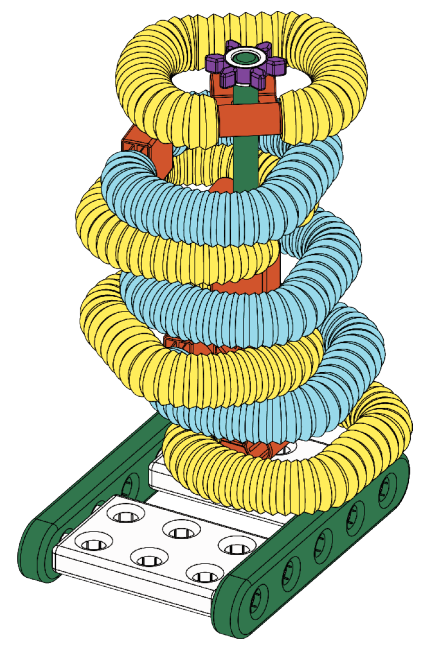
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7

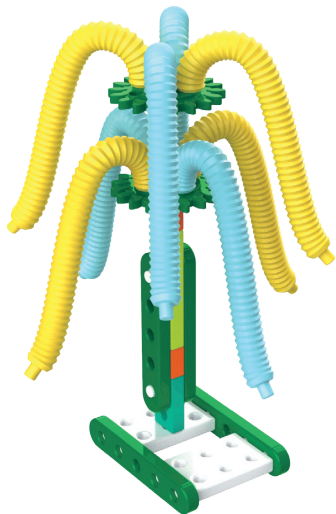


完成圖
Done



2 植物觀測 PLANT OBSERVATION

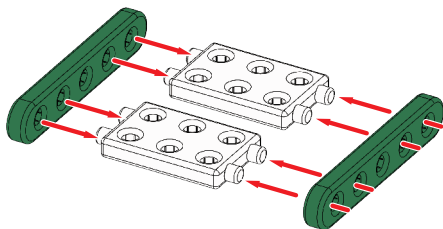
椰子樹
Coconut Tree



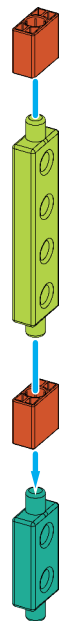
零件清單 Parts List

2	3	4	6	7	9
x4	x1	x1	x2	x2	x1
14	17	21	22		
x2	x2	x4	x4		

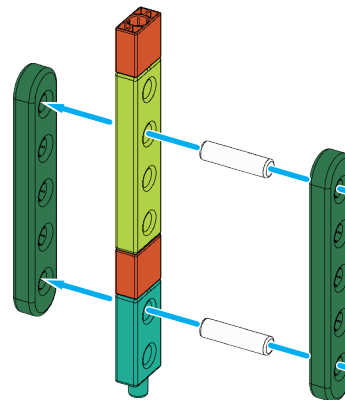
1



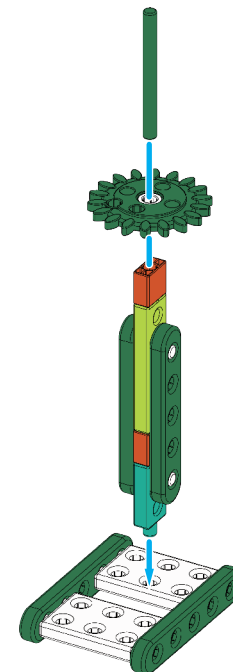
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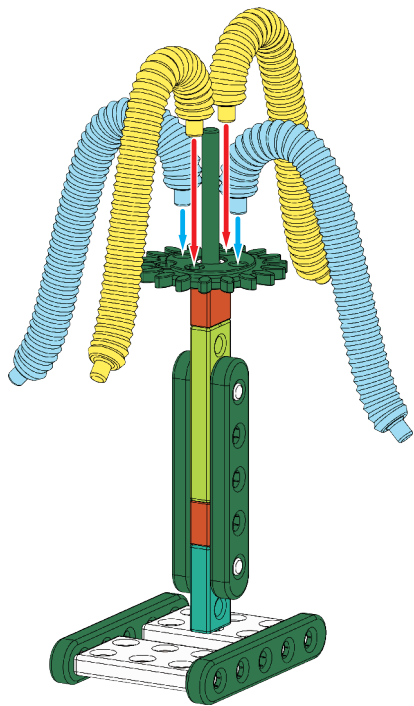
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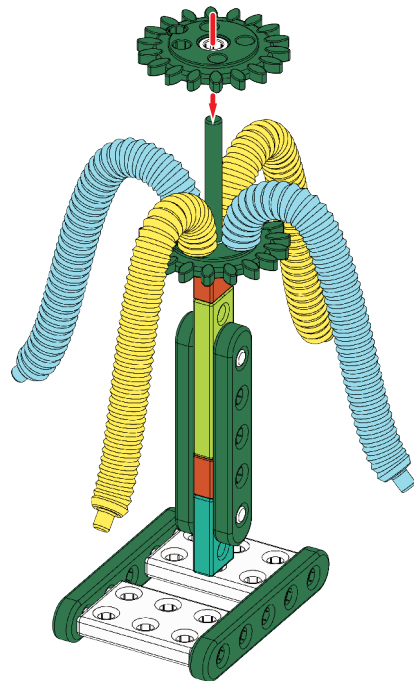
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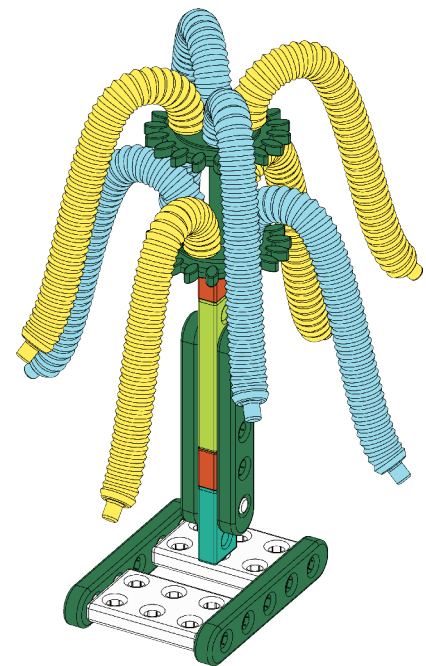
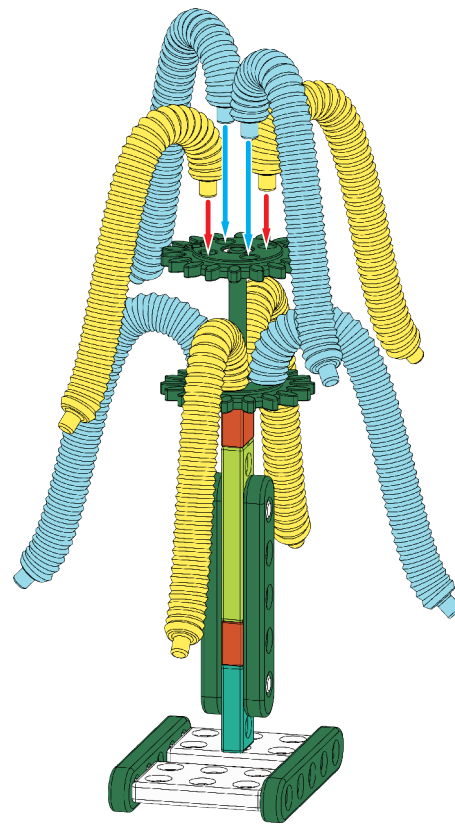
5



6



7

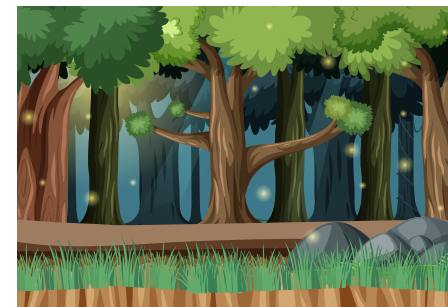


3 昆蟲世界 INSECT WORLD

主題 Theme

在第三個「昆蟲世界」的主題中，孩子可以透過組裝模型與遊戲，認識各種不同的昆蟲，包括擾人的蚊子、山區的螢火蟲、葉子上的毛毛蟲，以及以樹為家的獨角仙等。另外，還有蚯蚓、蝸牛與蜘蛛，別以為牠們跟昆蟲長得很像，就是昆蟲喔！其實，在生物學分類牠們不是同一類！

In the third theme, kids explore different insects through model assembly and games. They'll encounter bothersome mosquitoes, mesmerizing fireflies in the mountains, caterpillars munching on leaves, and rhinoceros beetles finding homes in trees. Additionally, there are earthworms, snails, and spiders that may resemble insects but belong to different categories in biological classification.



故事 Story

春天到了，山間溪流旁，提著小燈籠的螢火蟲悄悄地出現了，牠們發出無數微弱的光芒串連起來好像天上的小星星。聽說古代一位讀書人想要晚上看書，抓了很多螢火蟲放在紗布袋，當做蠟燭油燈的替代品。可見，每種昆蟲都有特別之處呢！

In spring, fireflies appear near the mountain stream, lighting up the surroundings like twinkling stars. Long ago, a student caught fireflies to use as makeshift lamps for reading at night. So we can say that each insect possesses its unique characteristic.



想想看，蚊子、蒼蠅是害蟲；蜜蜂、瓢蟲是益蟲。你知道還有哪些昆蟲也是對環境有幫助的嗎？

Think about it. Mosquitoes and flies can be annoying pests, while bees and ladybugs are beneficial insects. Can you think of any other insects that play a helpful role in the environment?

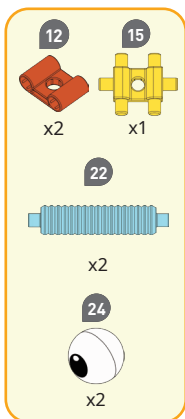


3 主題模型 THEME MODEL

小挑戰！這裡有一些簡單的模型，你可以直接看圖就組裝出來嗎？

Let's give it a try! Here are a few simple models for you to assemble. Take a look at the pictures and see if you can put them together.

毛毛蟲 Caterpillar



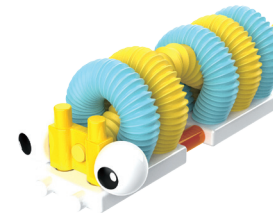
具足蟲 Giant Isopod



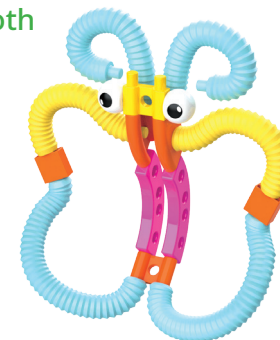
螢火蟲 Firefly



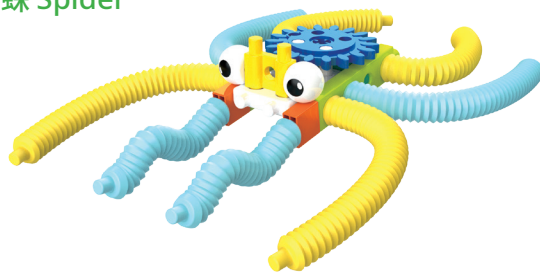
蚯蚓 Earthworm



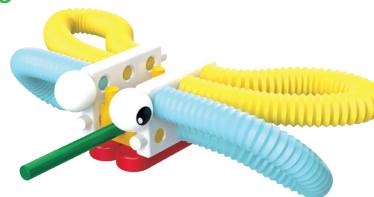
蛾 Moth



蜘蛛 Spider



蚊子 Mosquito



蝸牛 Snail



南洋兜蟲 Atlas Beetle



獨角仙 Rhinoceros Beetle



鍬形蟲 Stag Beetle



糞金龜 Dung Beetle

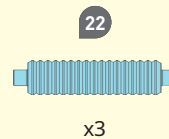
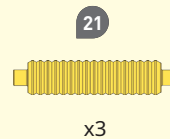
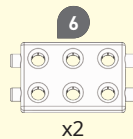


3 昆蟲世界 INSECT WORLD

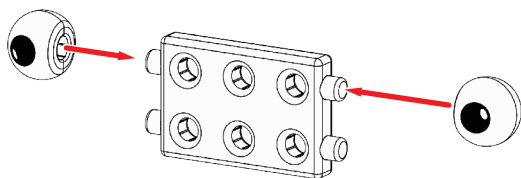
具足蟲 Giant Isopod



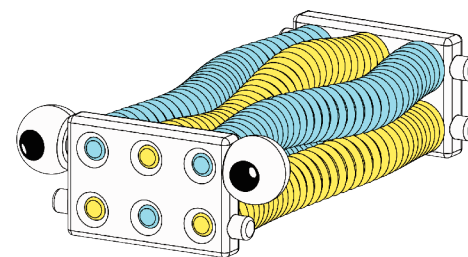
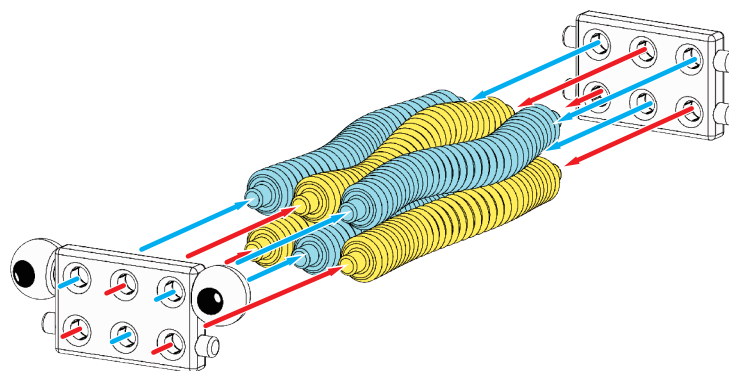
零件清單 Parts List



1












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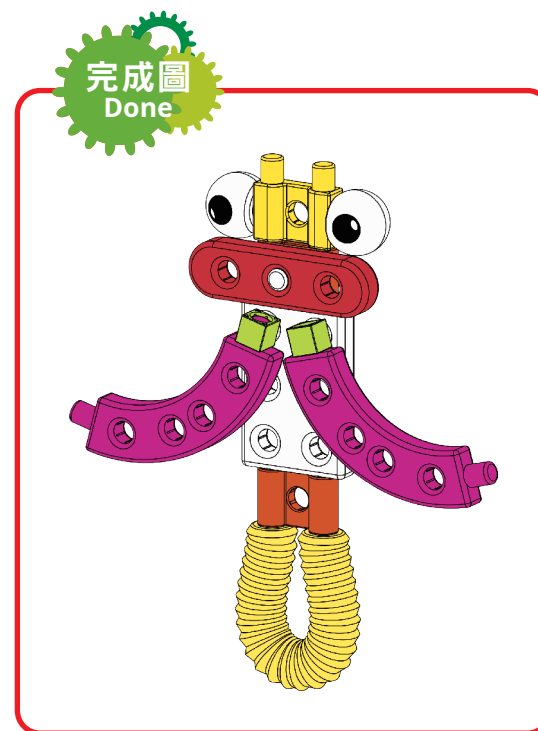
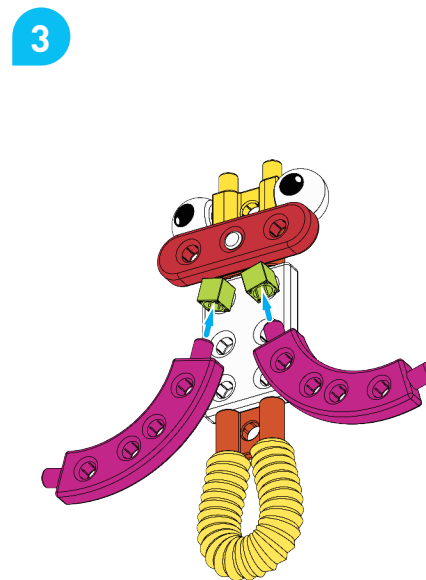
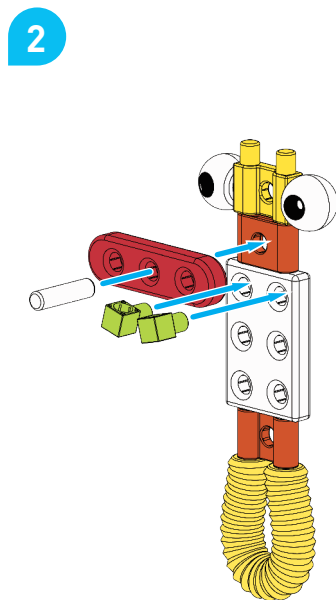
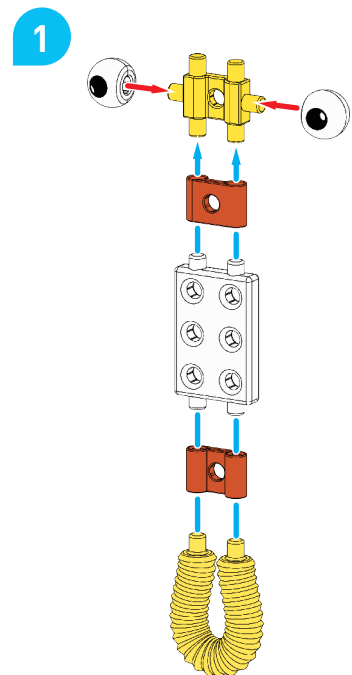


螢火蟲 Firefly



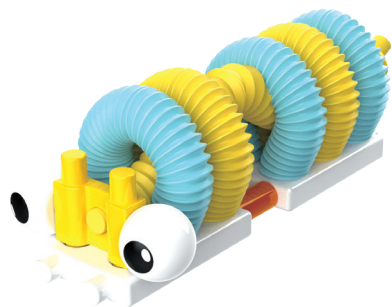
零件清單 Parts List

1  x1	5  x2	6  x1	7  x1	12  x2	15  x1
21  x1	24  x2	26  x2			

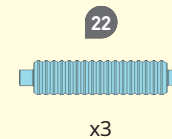
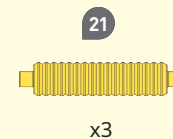
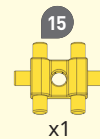
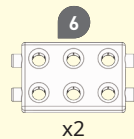


3 昆蟲世界 INSECT WORLD

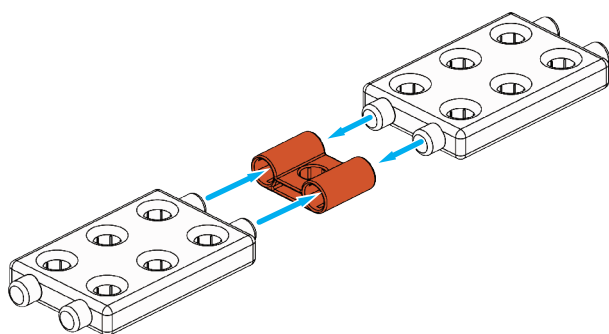
蚯蚓
Earthworm



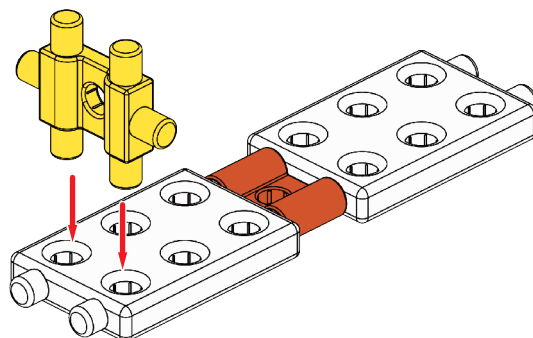
零件清單 Parts List



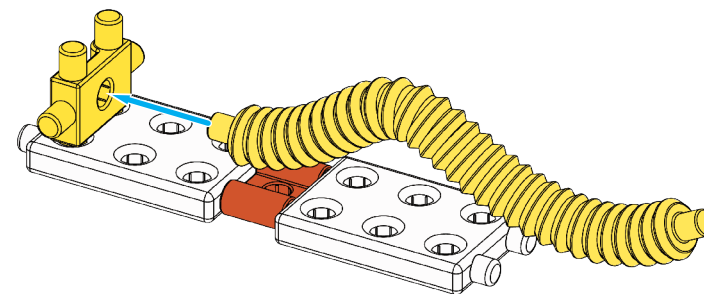
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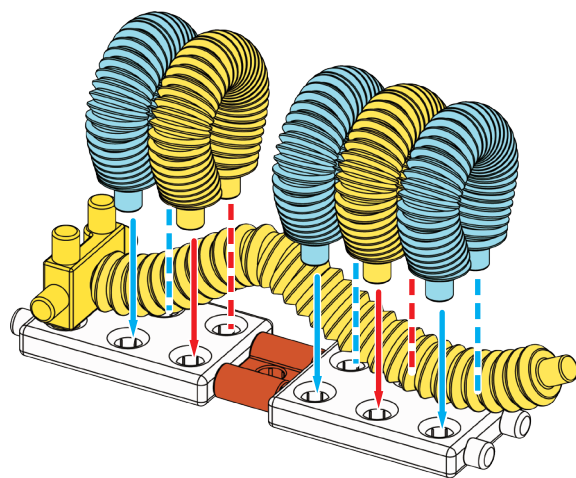
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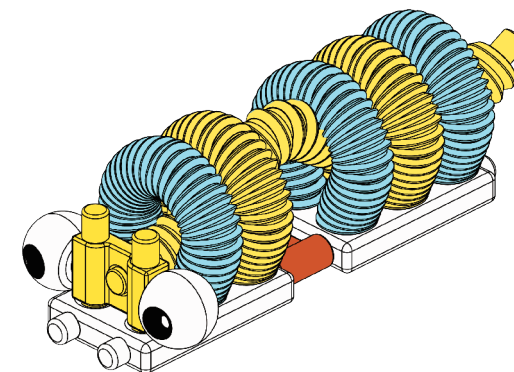
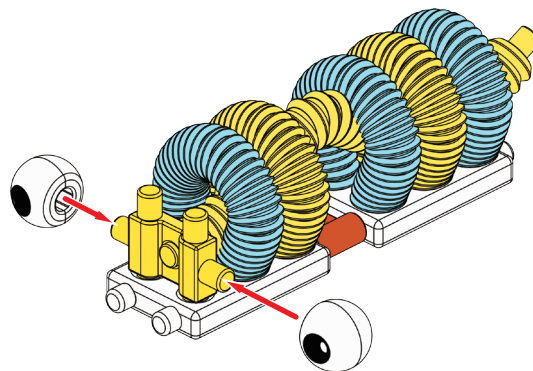
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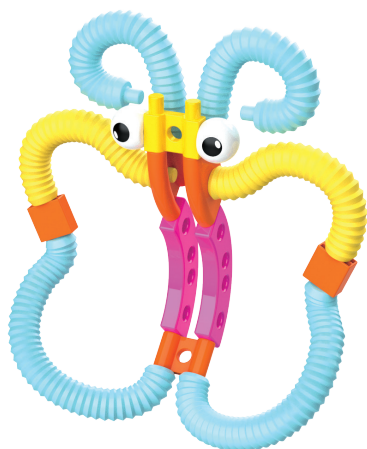


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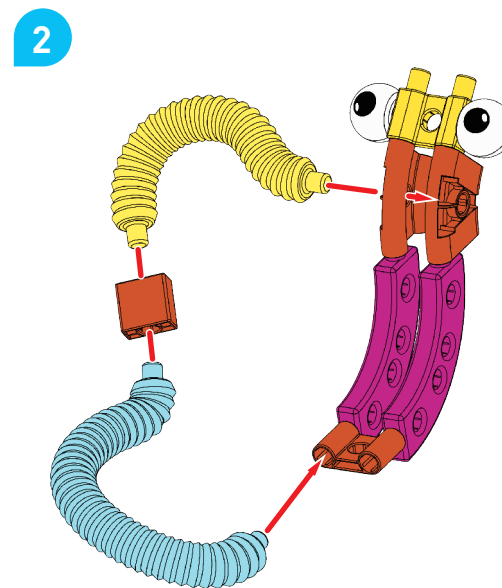
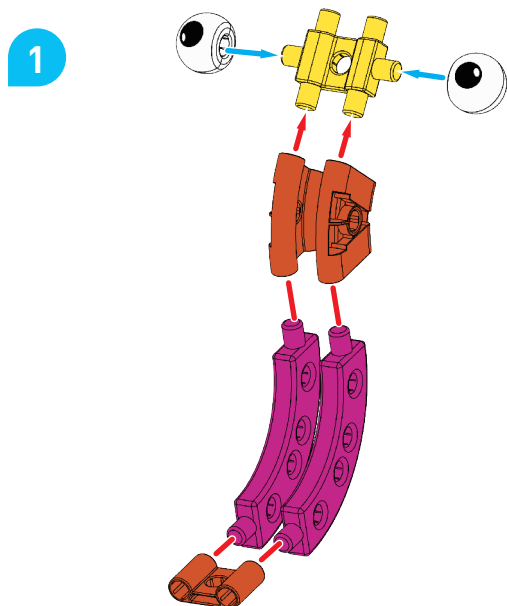
3 昆蟲世界 INSECT WORLD

蛾
Moth

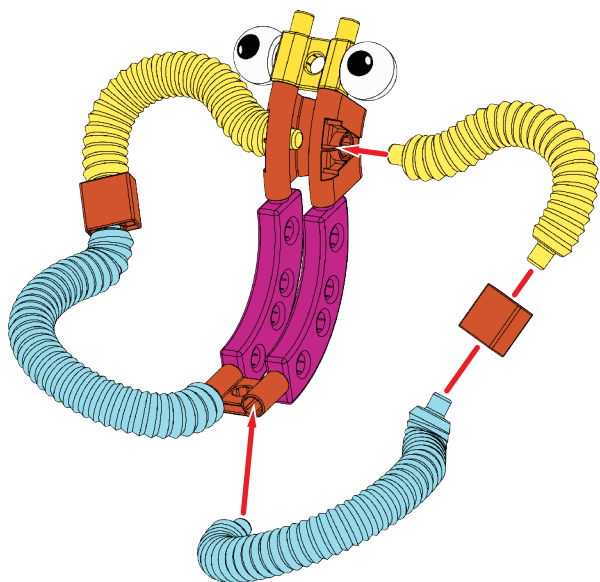


零件清單 Parts List

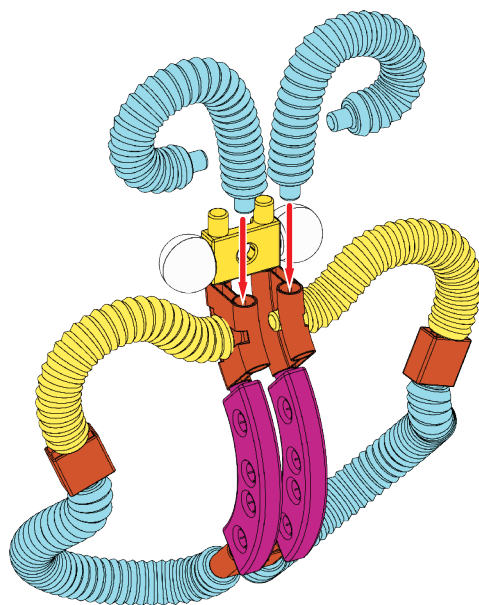
5	12	13	14	15	21	22	24
x2	x1	x2	x2	x1	x2	x4	x2



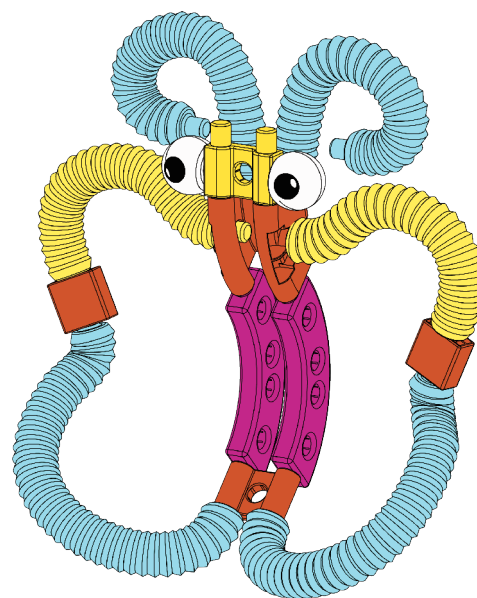
3



4

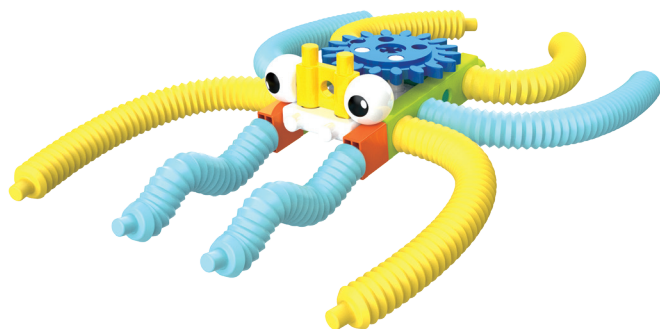


完成圖
Done

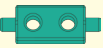







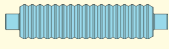



3 昆蟲世界 INSECT WORLD

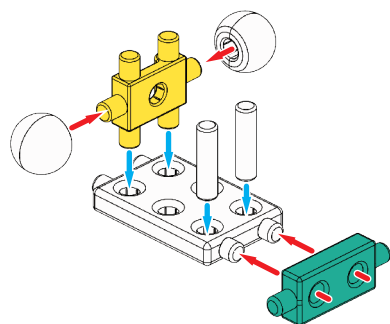
蜘蛛
Spider



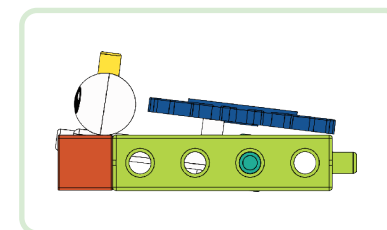
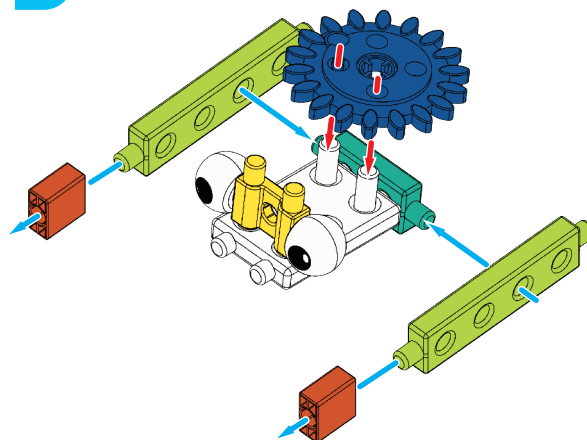
零件清單 Parts List

						
x1	x2	x1	x2	x2	x1	x1
						
x4	x4	x2				

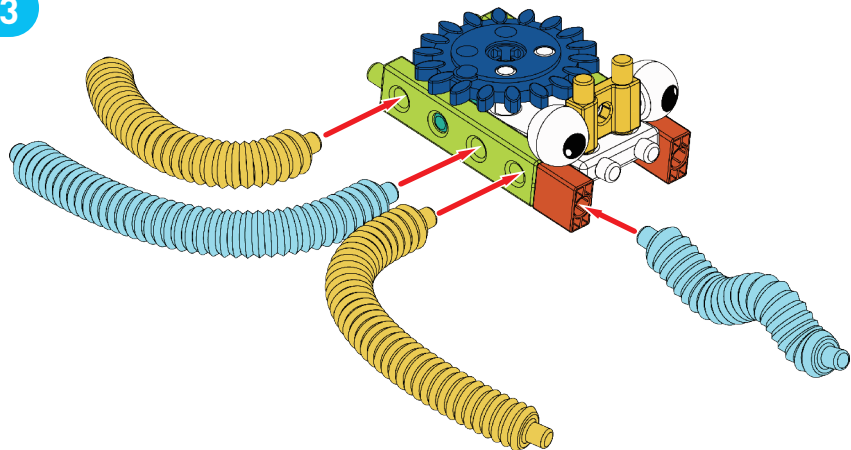
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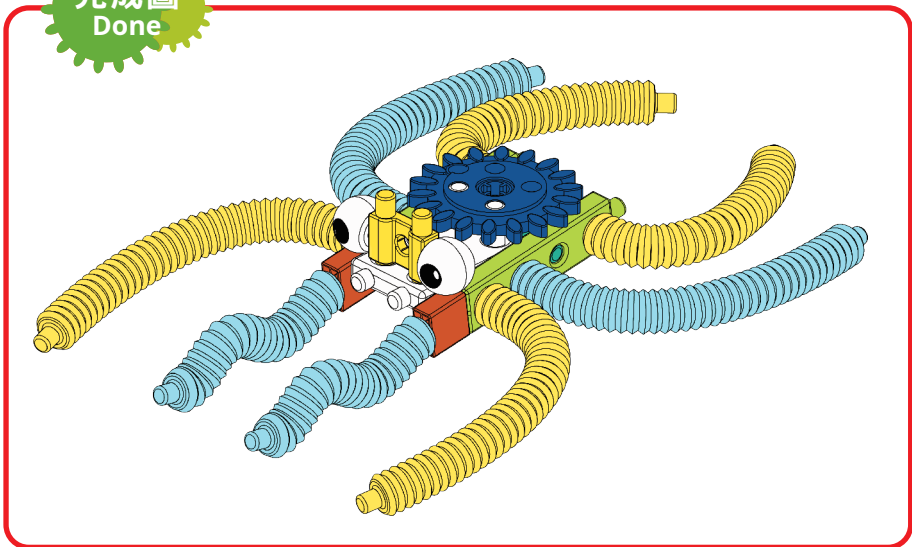
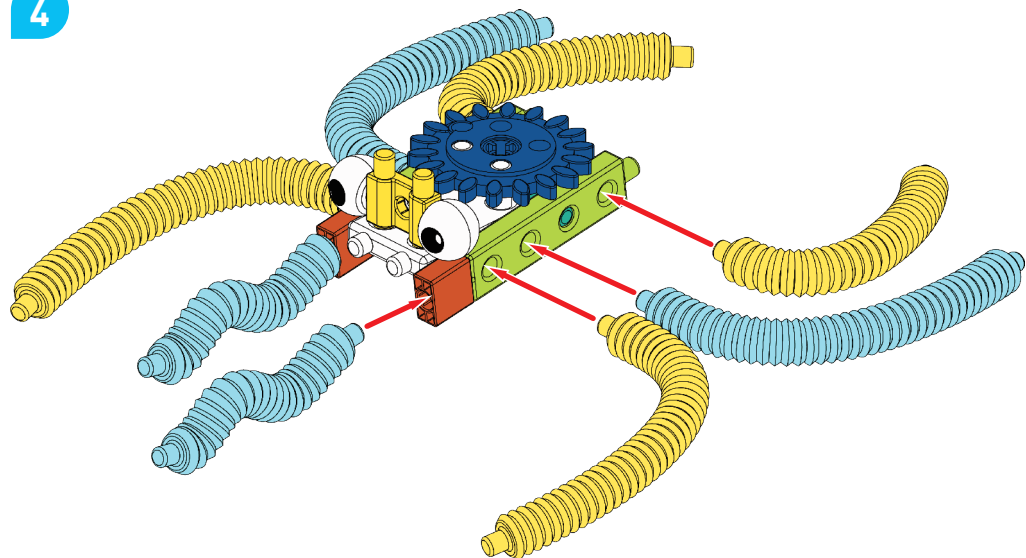
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3

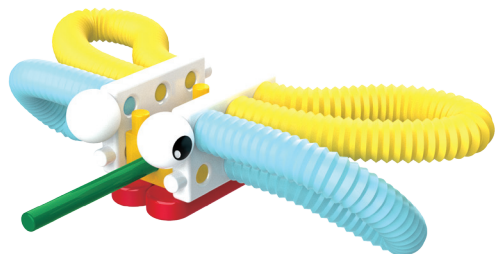


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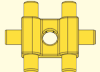

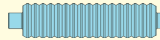



3 昆蟲世界 INSECT WORLD

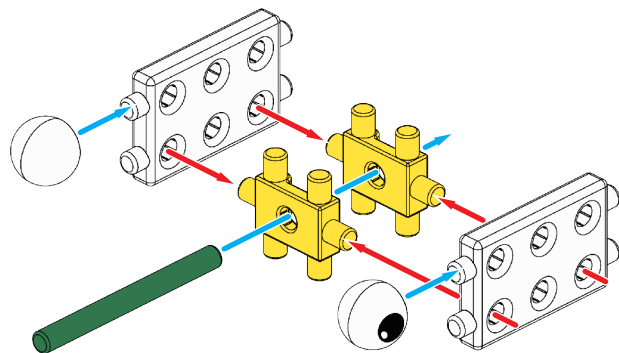
蚊子 Mosquito



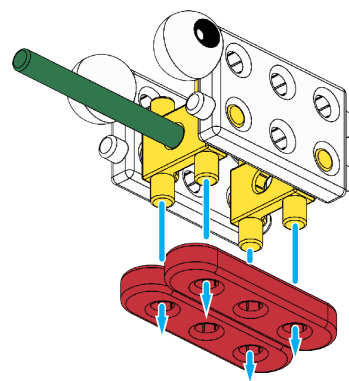
零件清單 Parts List

					
x2	x2	x1	x2	x2	x2
					
x2					

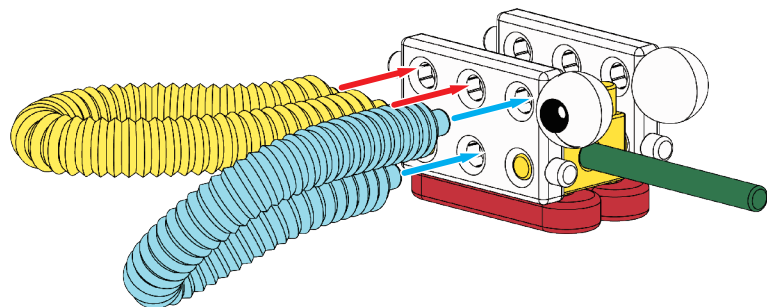
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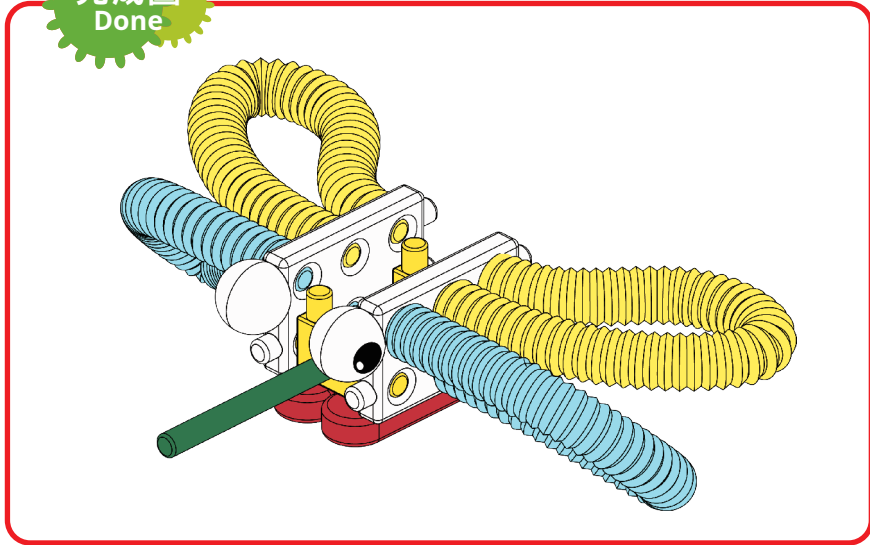
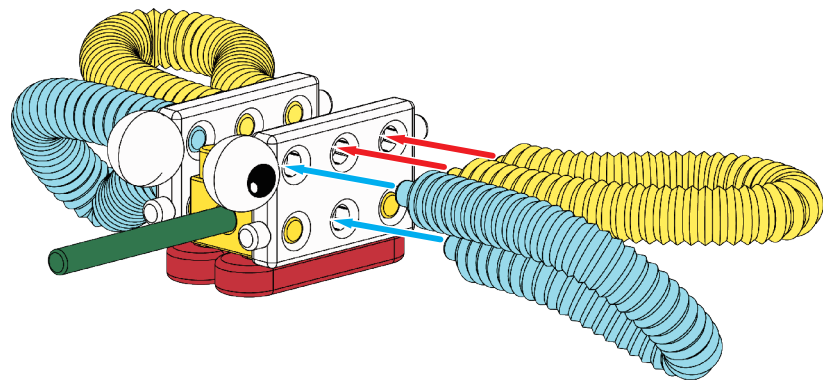
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3



4











3 昆蟲世界 INSECT WORLD

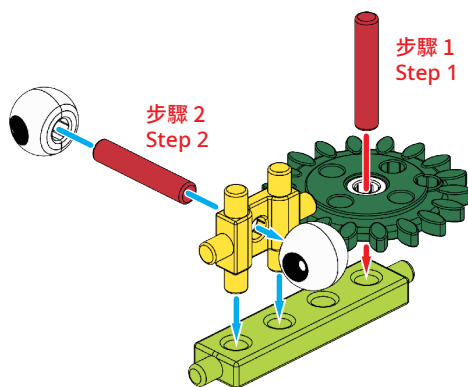
蝸牛 Snail



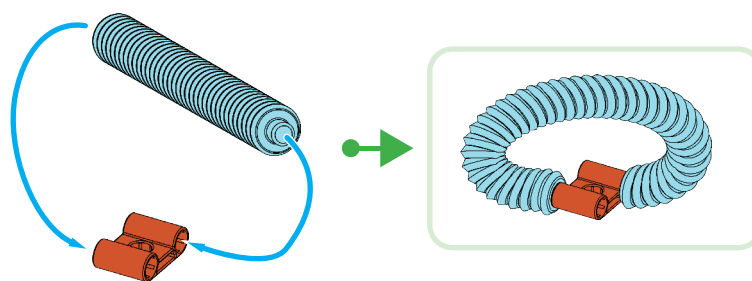
零件清單 Parts List

						
x1	x2	x2	x1	x1	x2	x2
						
x2						

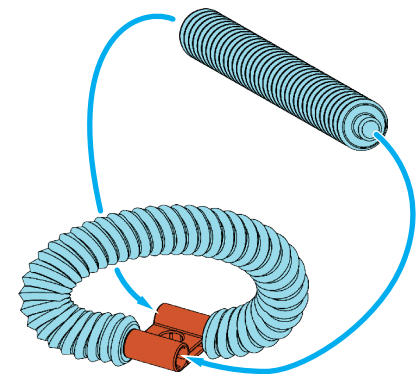
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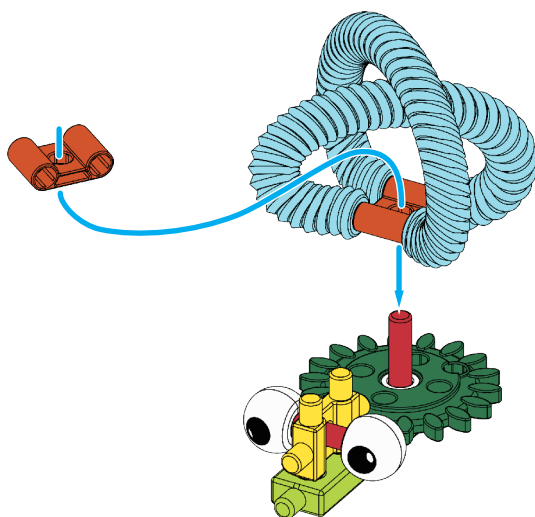
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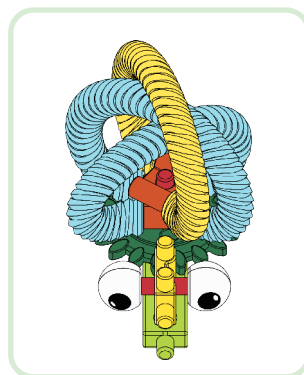
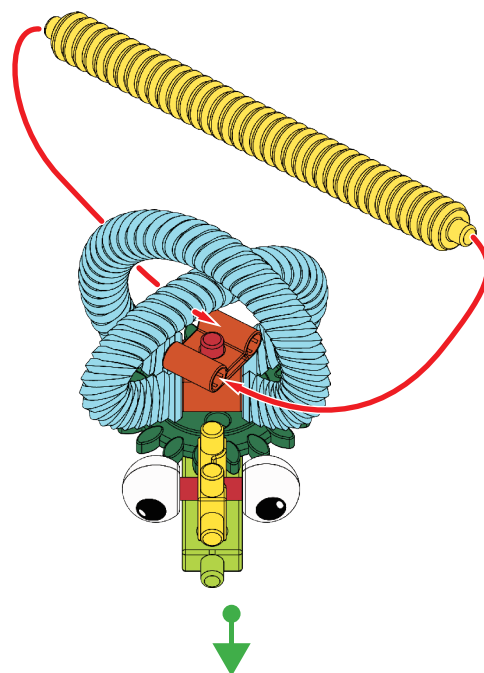
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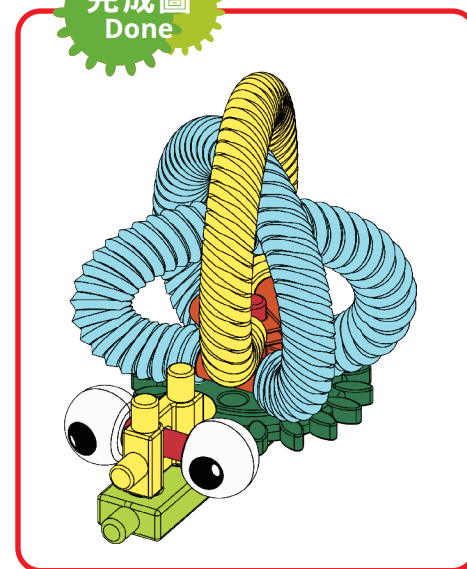
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5



完成圖
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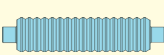



3 昆蟲世界 INSECT WORLD

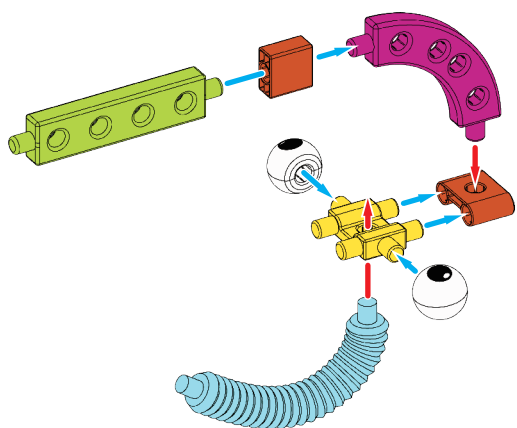
南洋兜蟲 Atlas Beetle



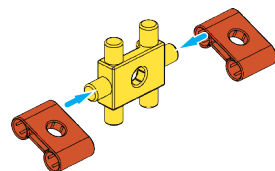
零件清單 Parts List

						
x2	x2	x2	x1	x1	x1	x2
						
x3	x3	x2	x3	x2		

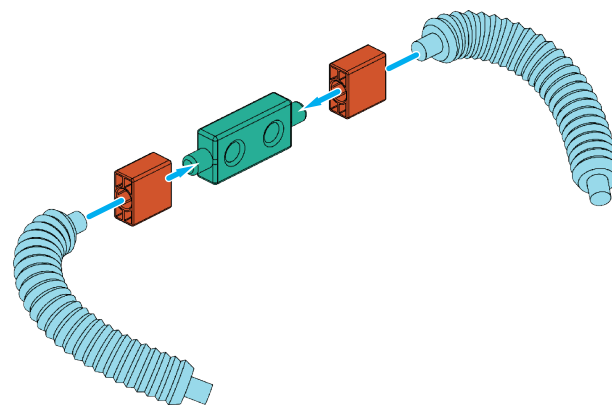
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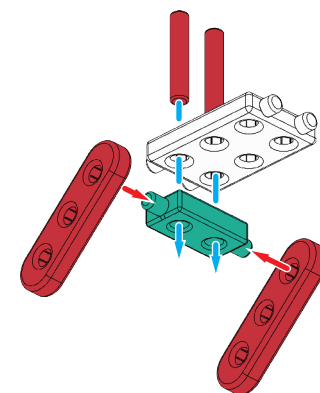
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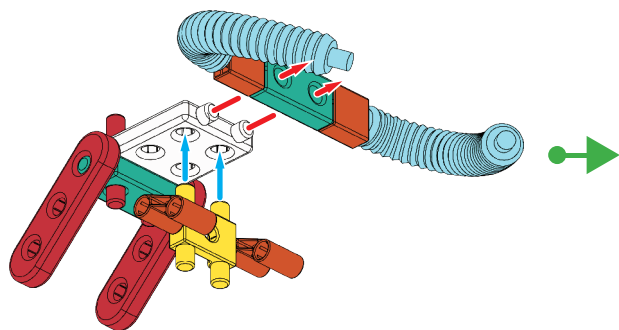
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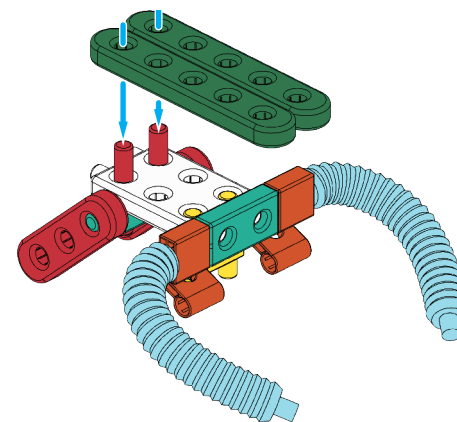
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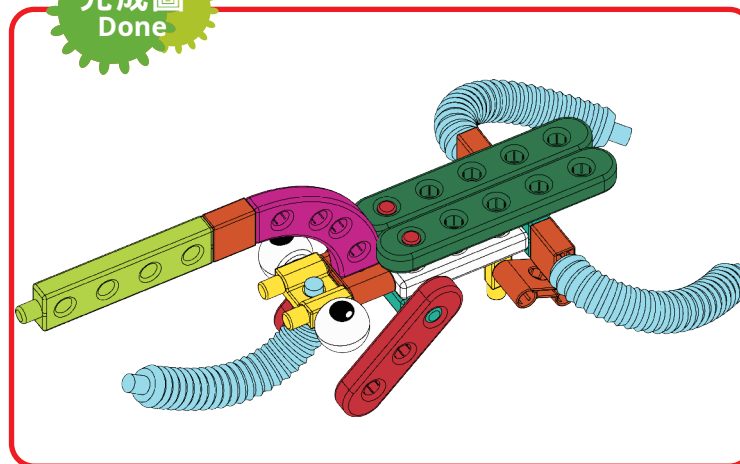
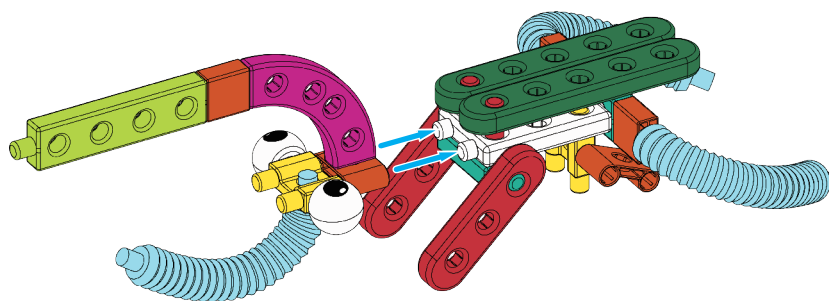
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6



7


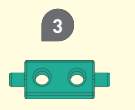


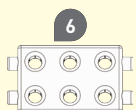




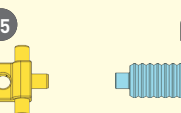
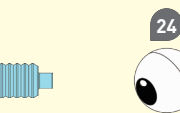
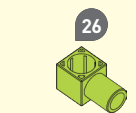
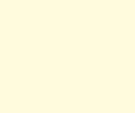


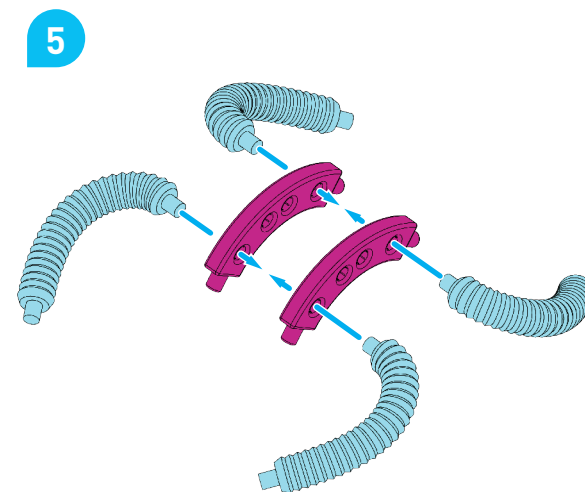
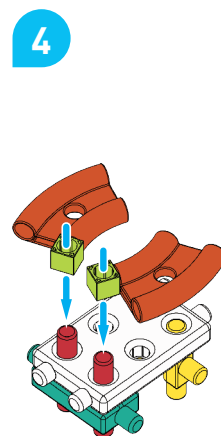
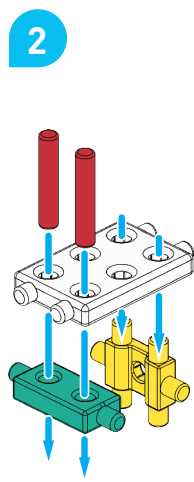
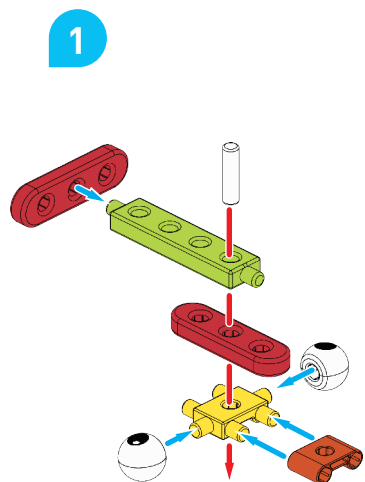
3 昆蟲世界 INSECT WORLD

獨角仙 Rhinoceros Beetle

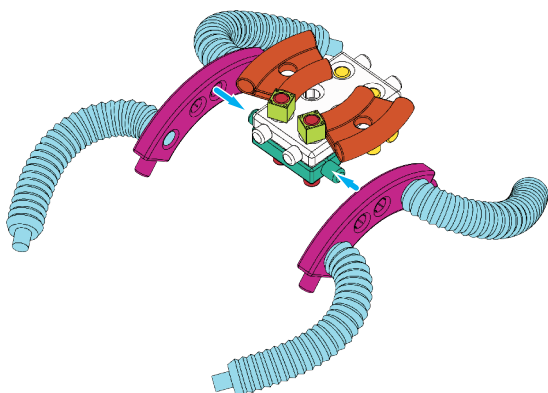


零件清單 Parts List

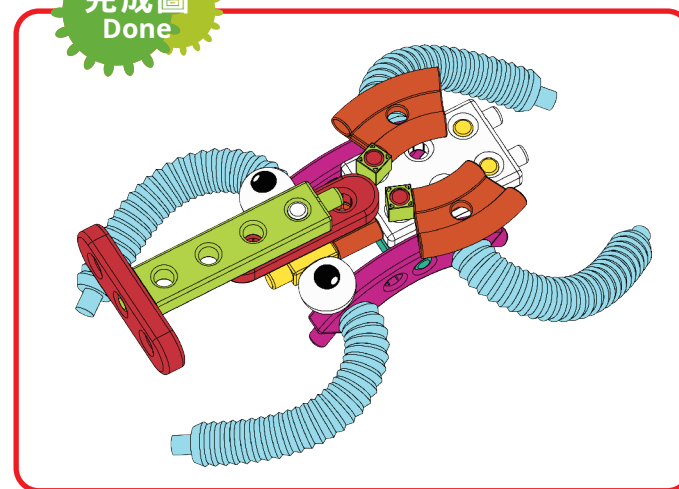
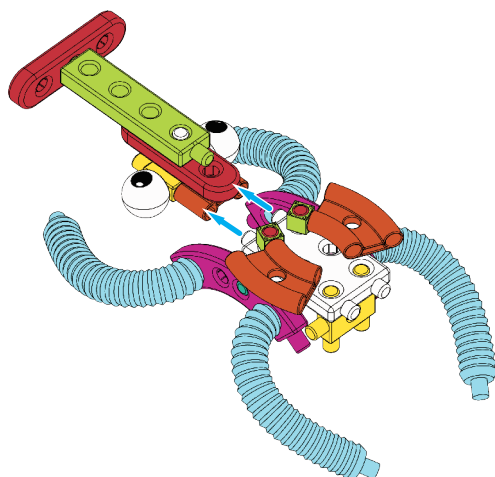
 x2	 x1	 x1	 x2	 x1	 x1	 x2
 x1	 x2	 x2	 x4	 x2	 x2	



6



7











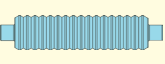




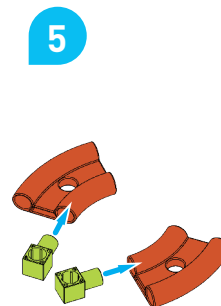
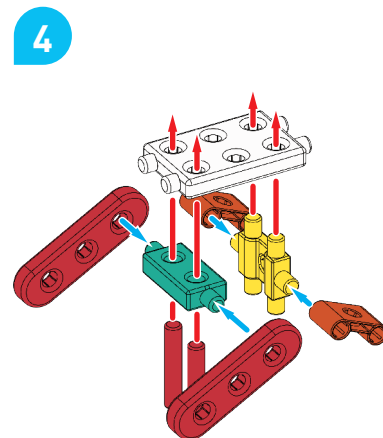
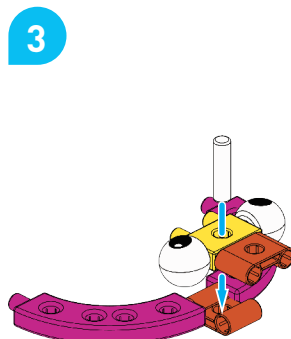
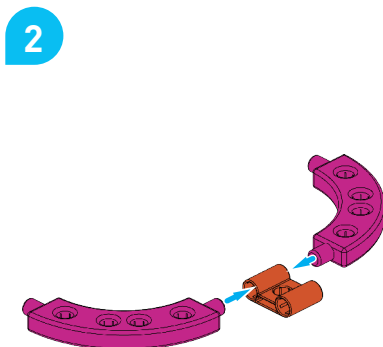
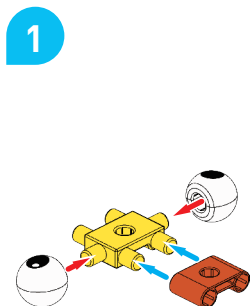
3 昆蟲世界 INSECT WORLD

鍬形蟲
Stag Beetle

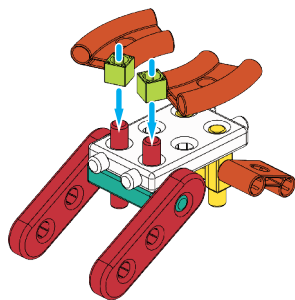


零件清單 Parts List

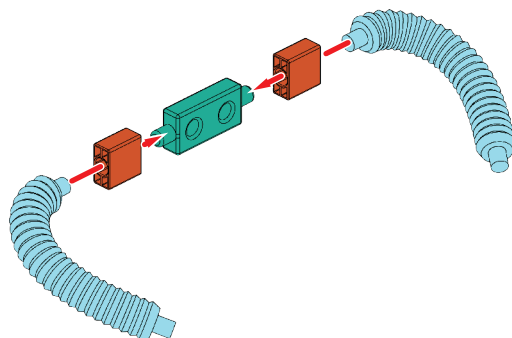
						
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x2	x2	x2	x2	x2	x2	



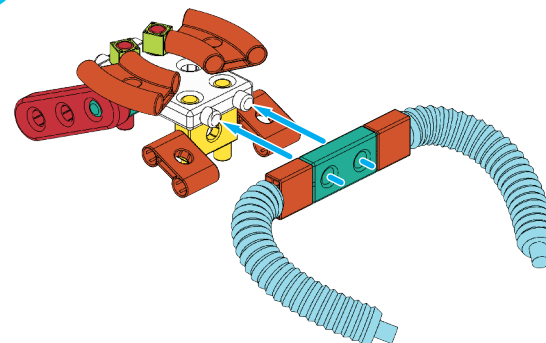
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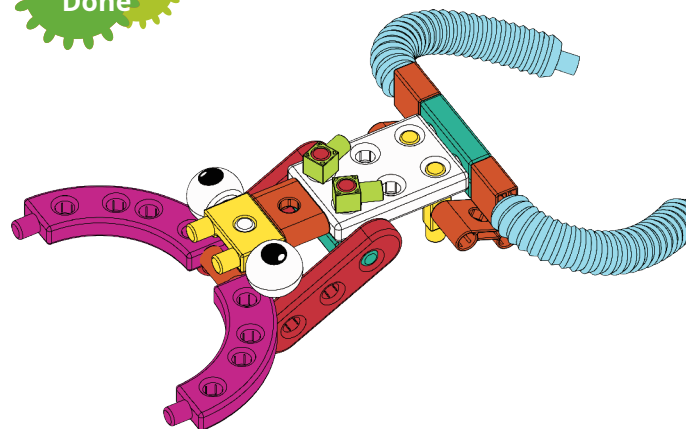
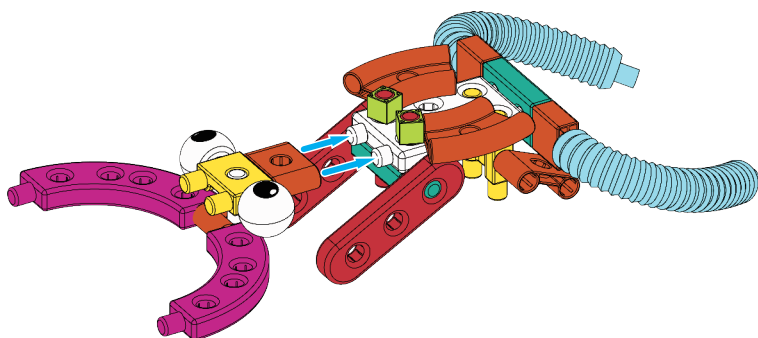
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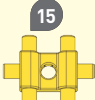





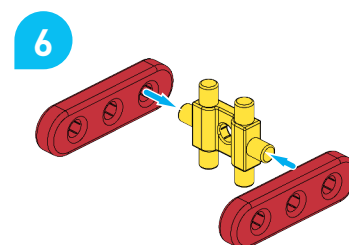
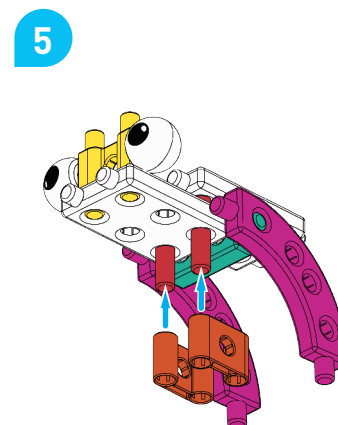
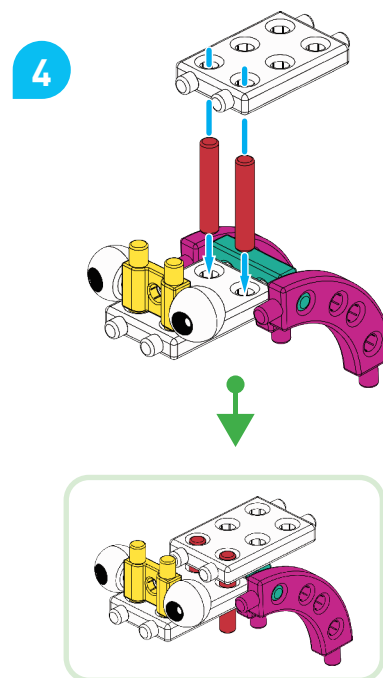
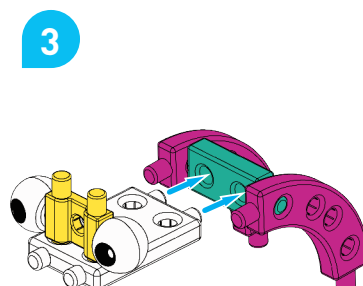
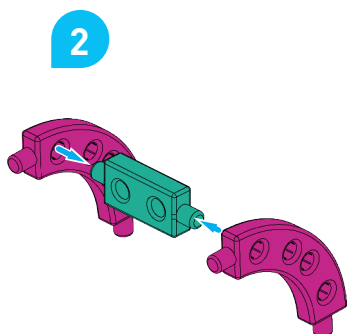
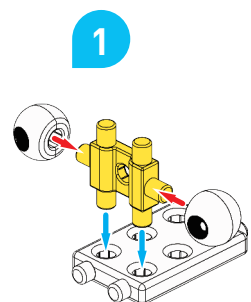
3 昆蟲世界 INSECT WORLD

糞金龜
Dung Beetle

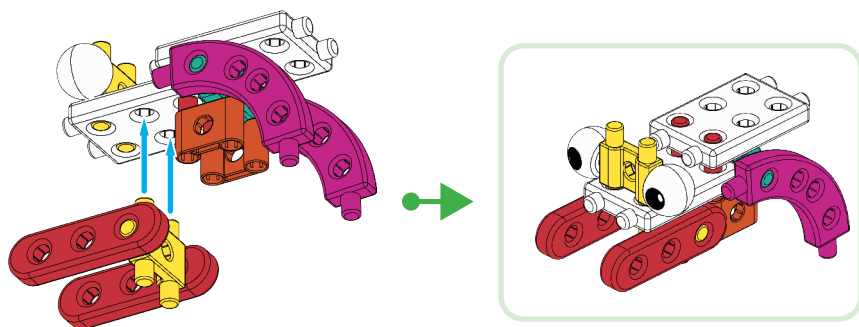


零件清單 Parts List

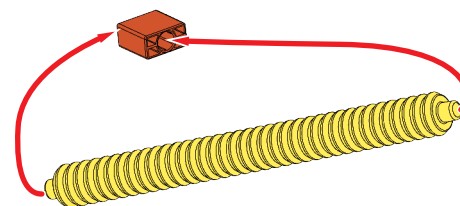
						
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x2	x2	x2	x2			



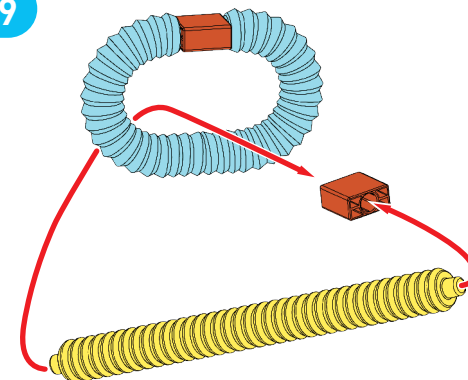
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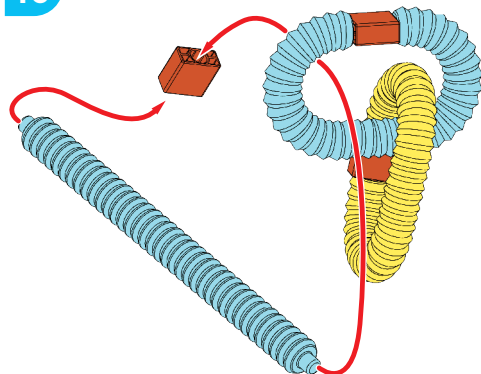
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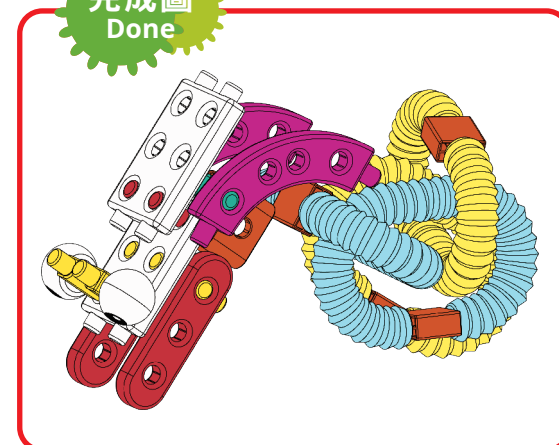
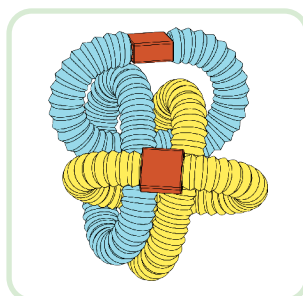
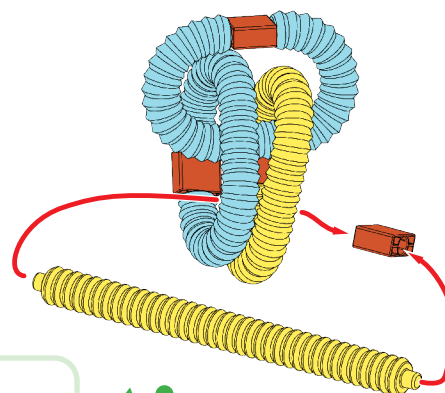
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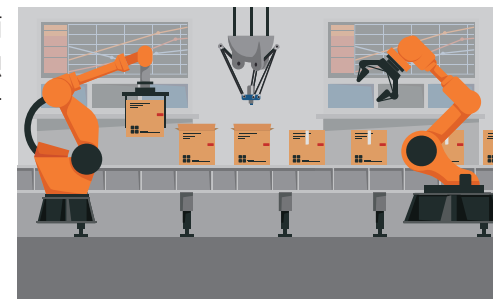


4 生活科技 LIFE TECHNOLOGY

主題 Theme

在第四個「生活科技」的主題中，孩子可以透過組裝模型與遊戲，認識科技在日常生活中的應用產品或設備，這些工具簡化了人們的生活，使生活變得更加舒適方便，也更加安全。另外，想想看科技產品發明前與發明後的生活差異，或者可以想一想現代生活與一兩百年前的古代生活有什麼不同。透過這個主題，孩子可以在遊戲中體會到科技的好處，也想一想科技有沒有可能也有什麼壞處？

In the fourth theme, children discover the technological tools that enhance our daily lives through models and games. These tools simplify, comfort, and make our lives safer. We can compare life before and after technological inventions, including changes over the past century or two. This theme allows children to experience the benefits of technology in a fun way while considering any potential downsides.



故事 Story

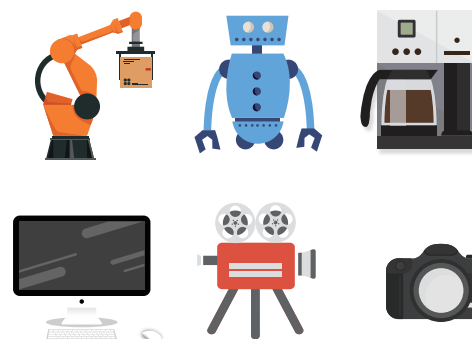
歡迎光臨！有些便利商店裡面沒有任何一個店員，那要怎麼買東西呢？原來這裡是無人商店。各種機器人與智慧化的設施完成屬於它們的任務，像是上架、運送、監控與結帳。小朋友，你有沒有覺得高科技跟魔法一樣，像是無形的手實現了人們的梦想呢？

Welcome! Have you ever wondered how you can buy things in a convenience store without any clerks? That's because it's an unmanned store. Robots and smart systems take care of tasks like stocking shelves, shipping, monitoring, and checkout. Isn't it amazing how technology can seem like magic, an invisible hand fulfilling our dreams?



想想看，如果你可以帶一個科技產品回到古代，你想帶哪一個東西回去呢？為什麼？

Think about it. If you could bring a technological product back to ancient times, which one would you choose? And why?



4 主題模型 THEME MODEL

學步車 Baby Walker



灑水車 Sprinkler Car



歪頭機器人 Head-Tilting Robot



水管機器人 Tube Robot



手臂機器人 Arm Robot



刨冰機器人 Ice-Shaving Machine



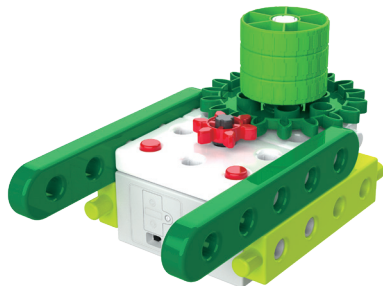
巡邏機器人
Patrol Robot



電影放映機
Film Projector



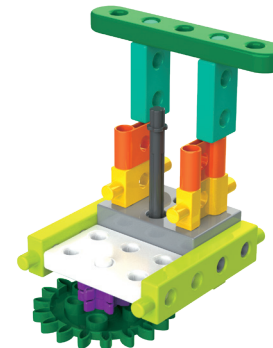
手拉壞機 Wheel-Throwing Machine



電風扇 Electric Fan



打磨機 Grinder



輸送帶 Conveyor Belt



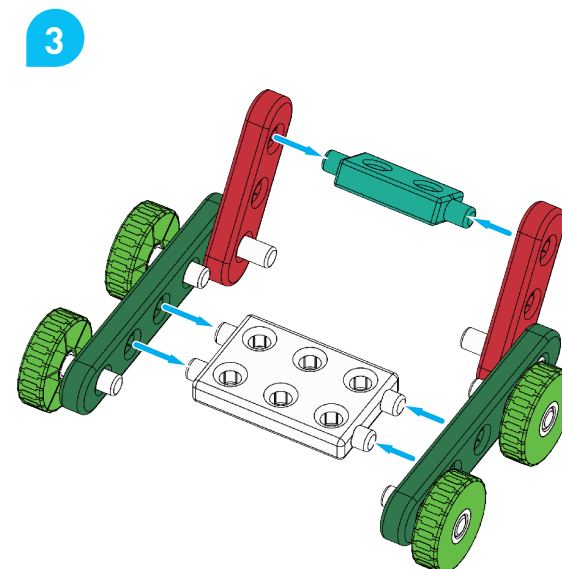
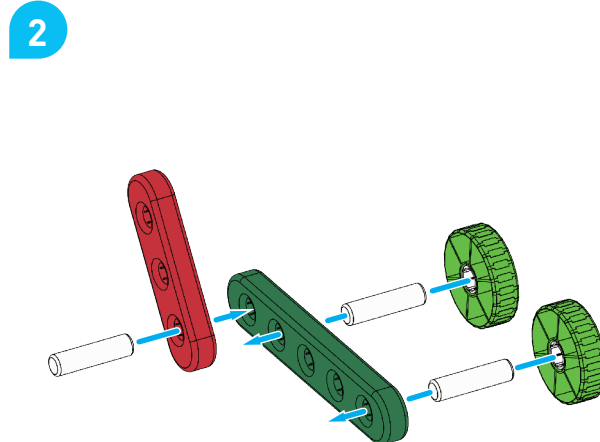
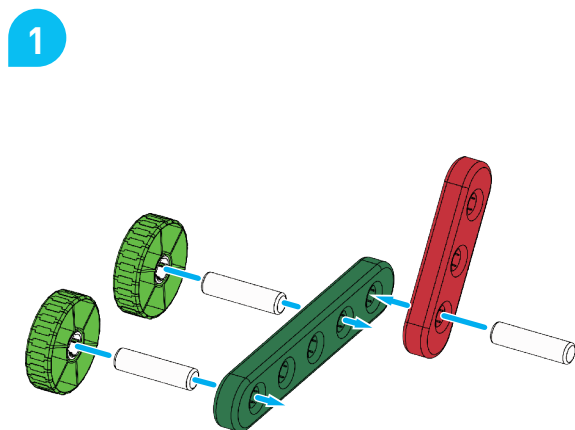
4 生活科技 LIFE TECHNOLOGY

學步車 Baby Walker

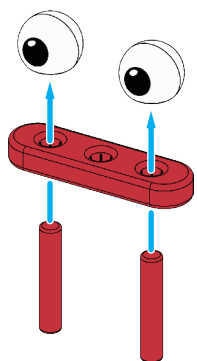


零件清單 Parts List

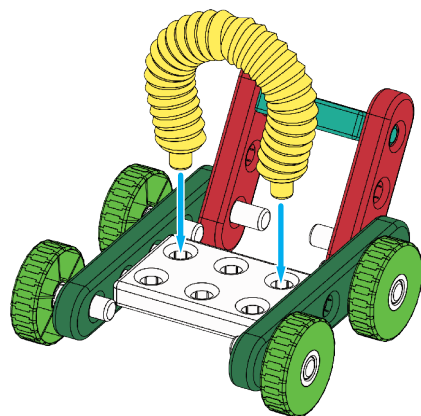
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x3	x2	x1	x1	x6	x2	x4
21	24					
x1	x2					



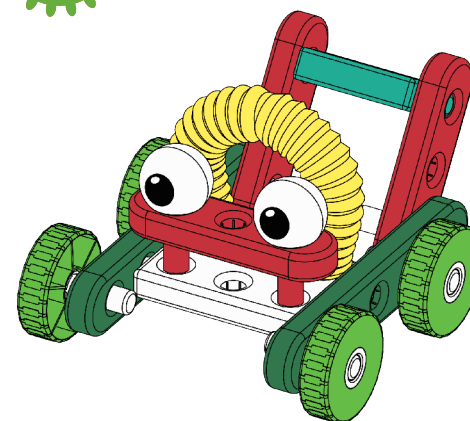
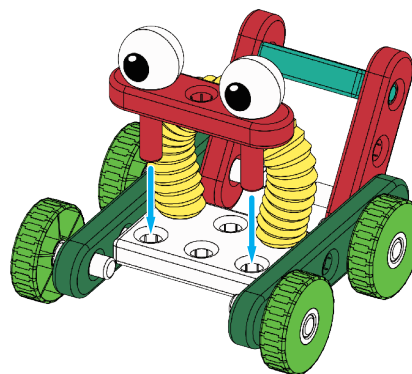
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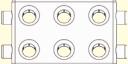




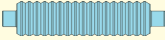




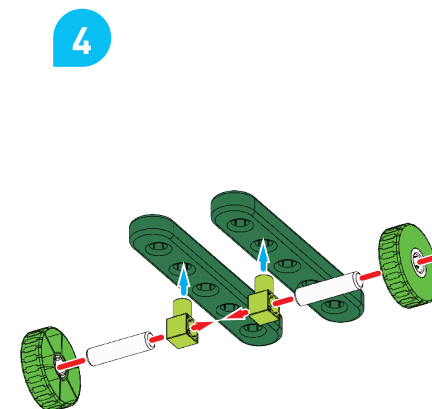
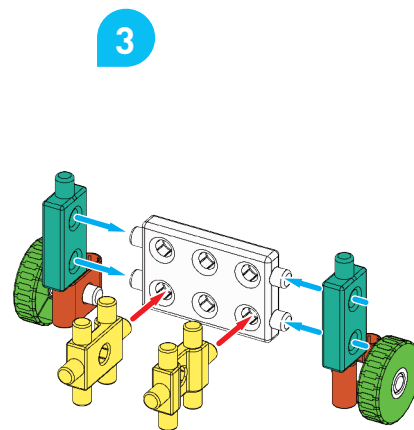
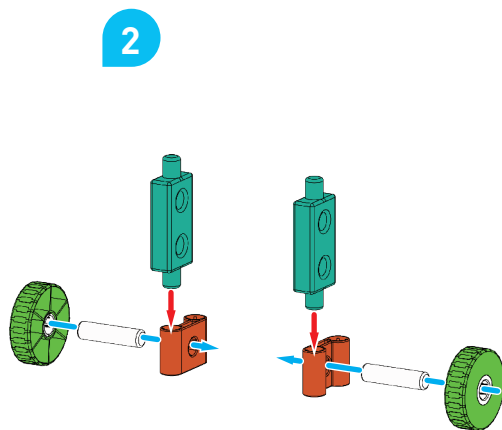
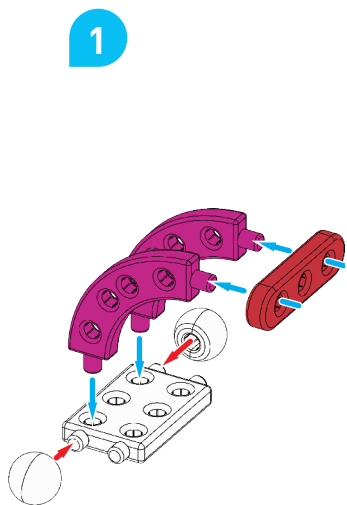
4 生活科技 LIFE TECHNOLOGY

灑水車
Sprinkler Car

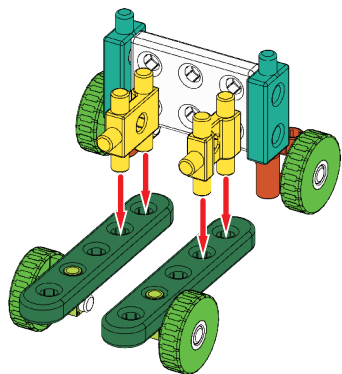


零件清單 Parts List

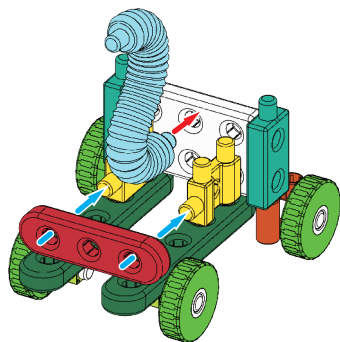
						
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x2	x4	x1	x2	x2		



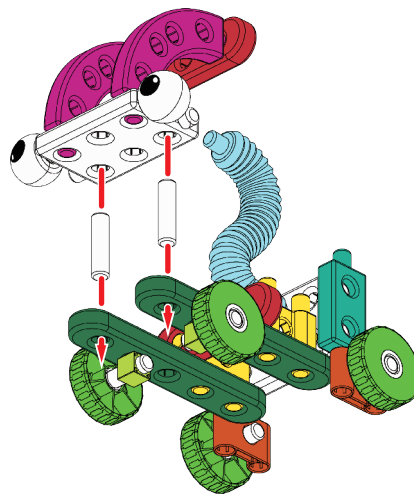
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


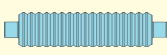



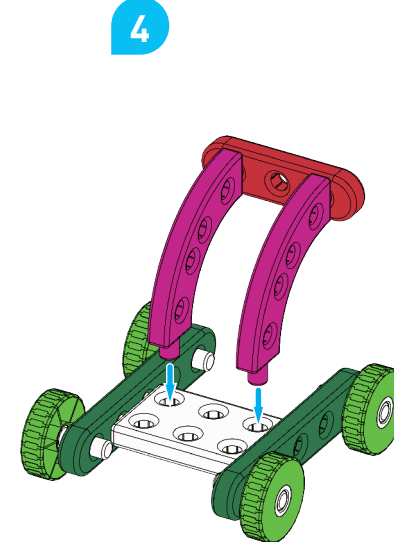
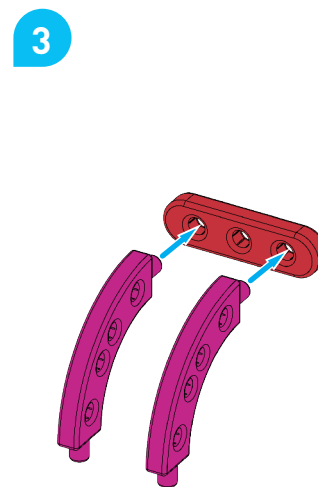
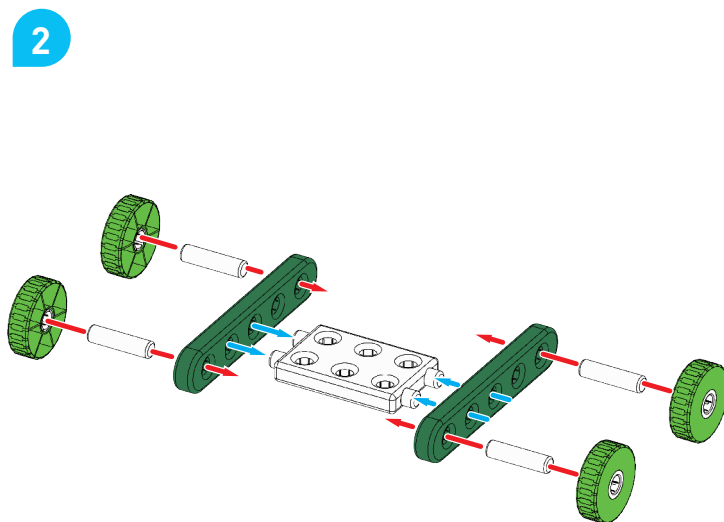
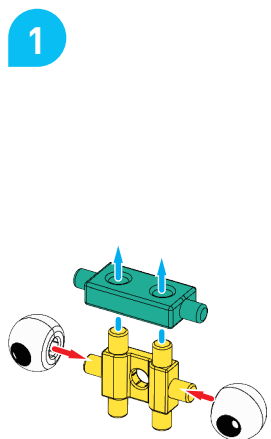
4 生活科技 LIFE TECHNOLOGY

歪頭機器人 Head-Tilting Robot

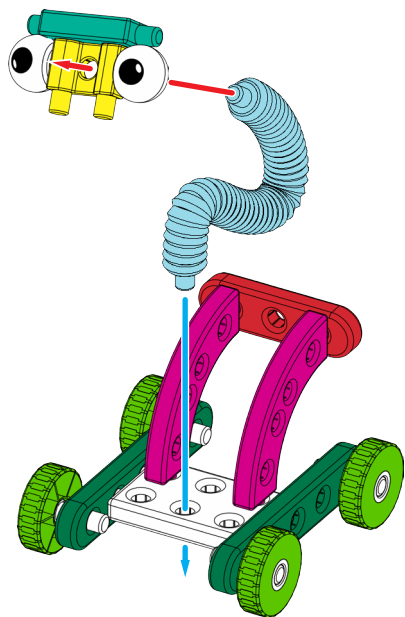


零件清單 Parts List

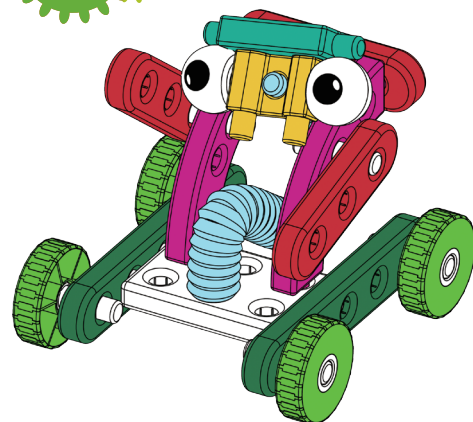
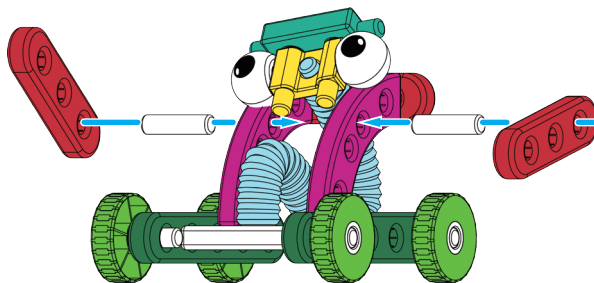
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15 	16 	22 	24 		
x1	x4	x1	x2		



5

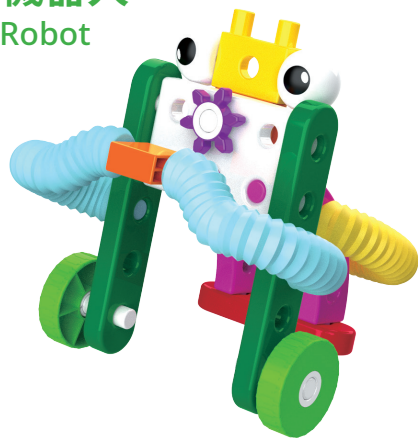


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


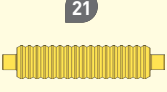
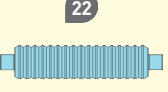



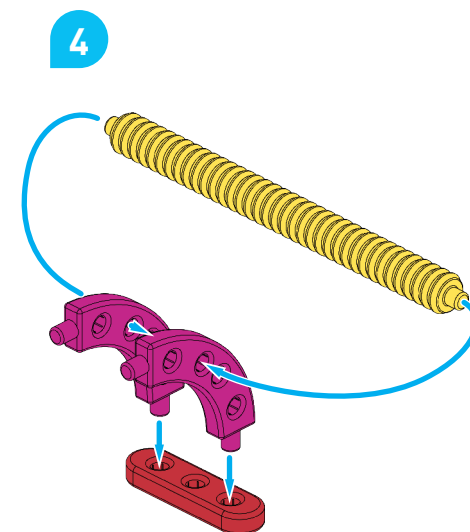
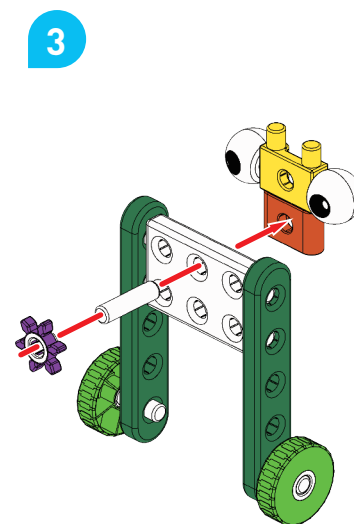
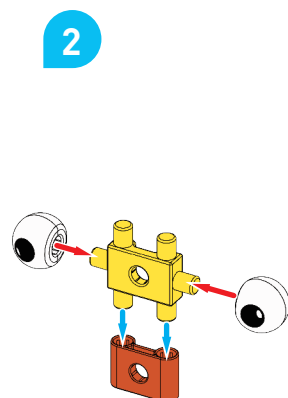
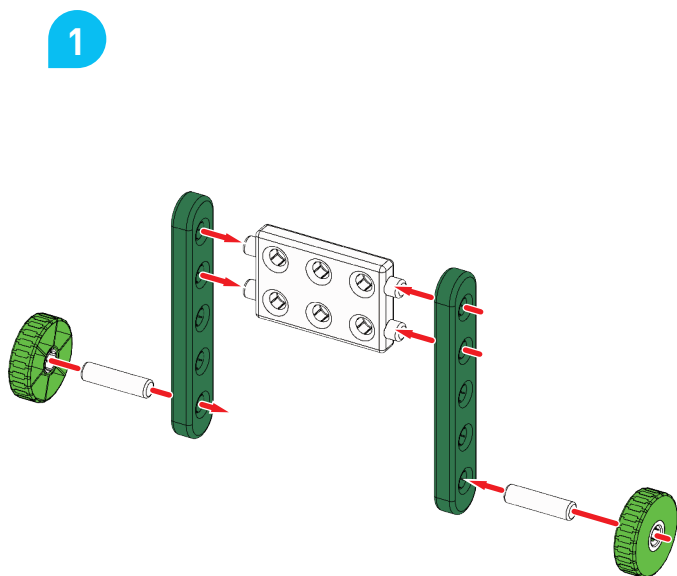
4 生活科技 LIFE TECHNOLOGY

水管機器人 Tube Robot

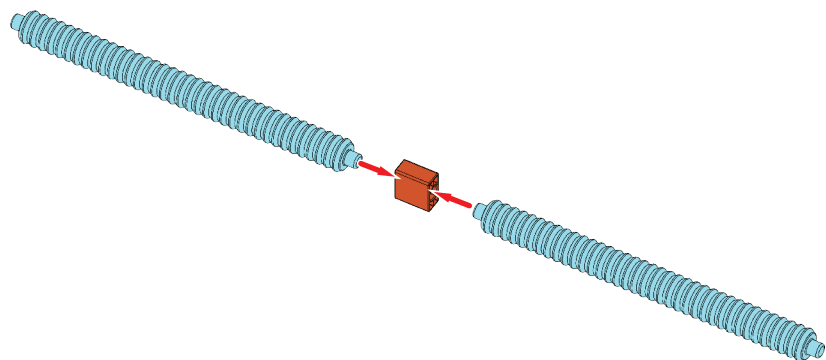


零件清單 Parts List

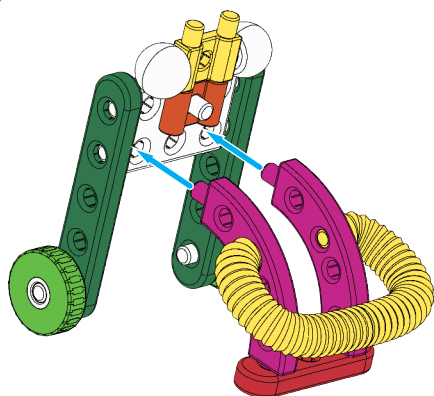
						
x1	x2	x2	x1	x3	x1	x1
						
x1	x2	x1	x1	x2	x2	



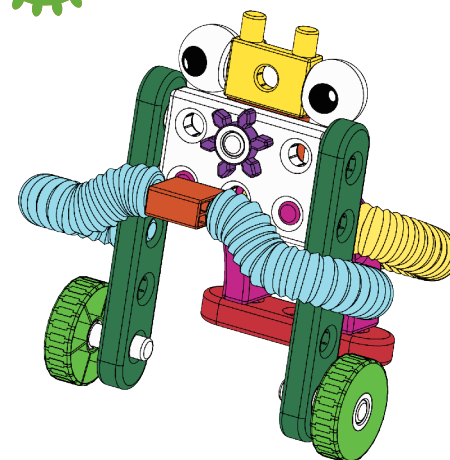
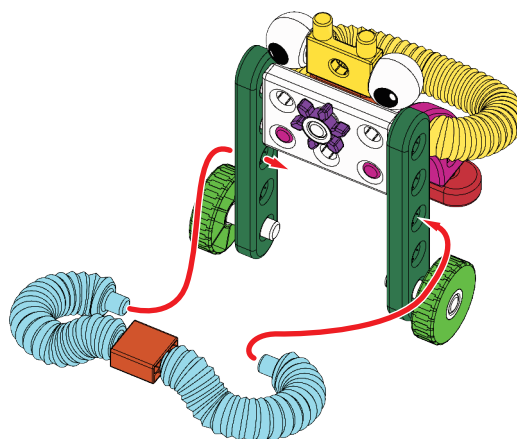
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4 生活科技 LIFE TECHNOLOGY

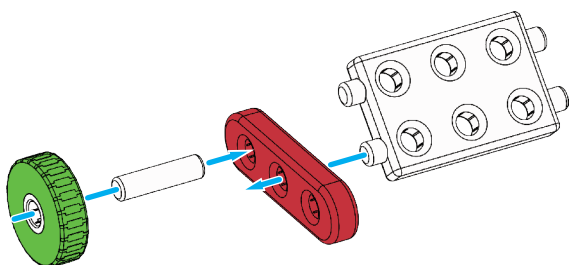
手臂機器人 Arm Robot



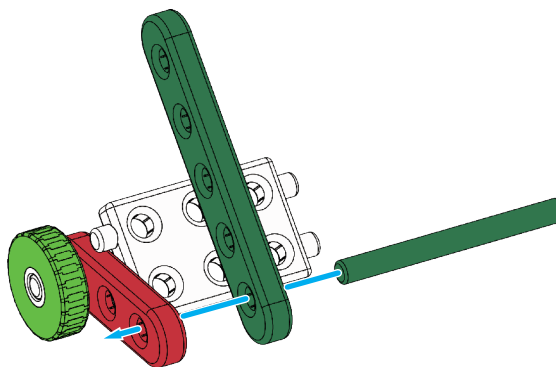
零件清單 Parts List

						
x2	x3	x1	x2	x1	x2	x2
						
x2	x2	x2				

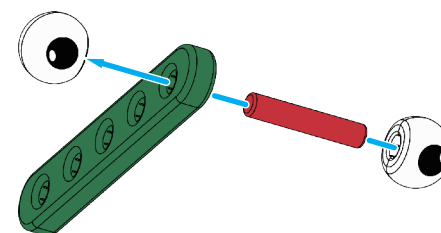
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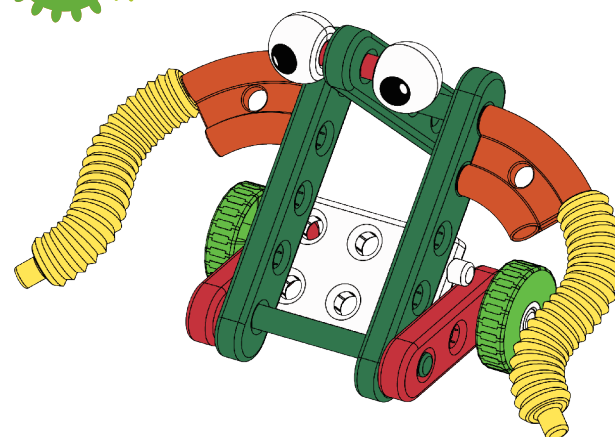
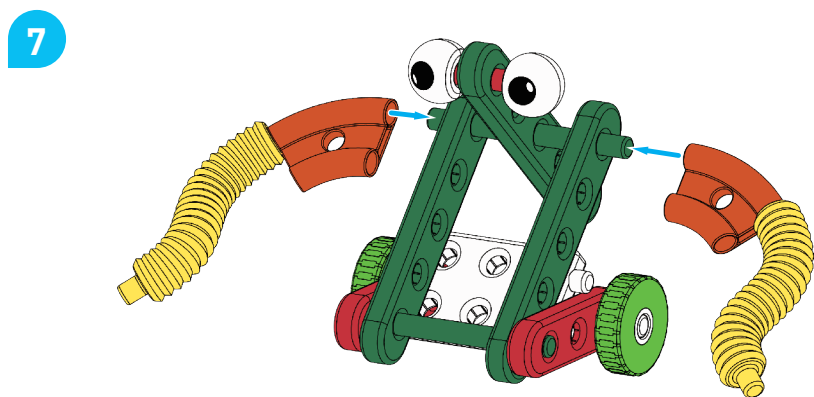
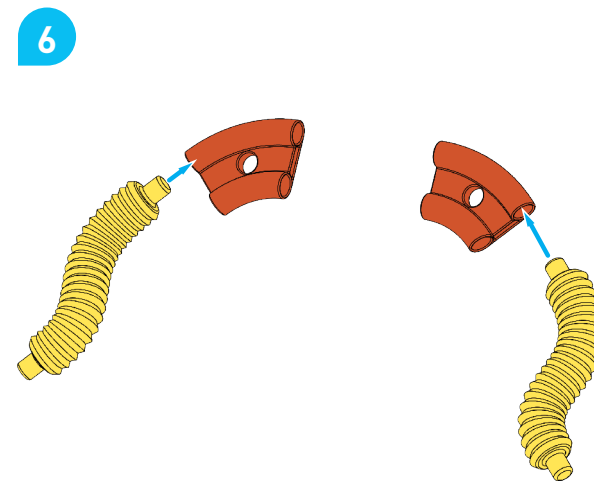
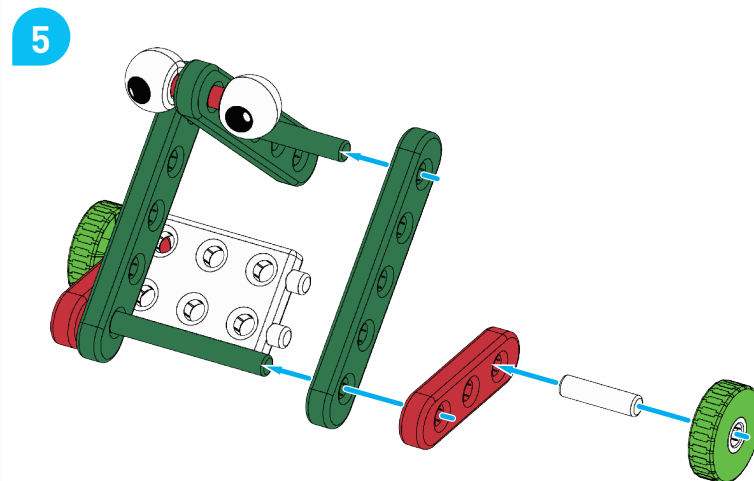
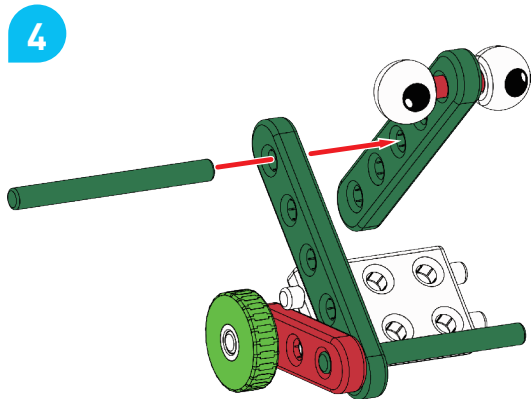


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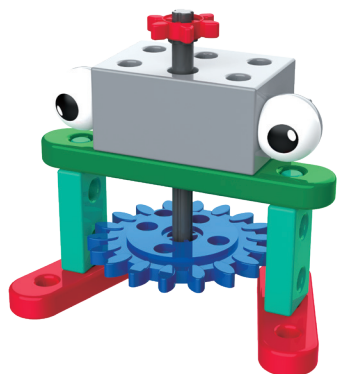
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4 生活科技 LIFE TECHNOLOGY

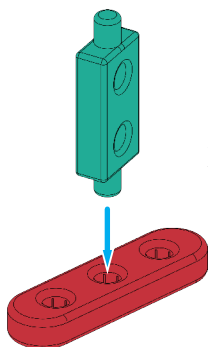
刨冰機器人 Ice-Shaving Machine



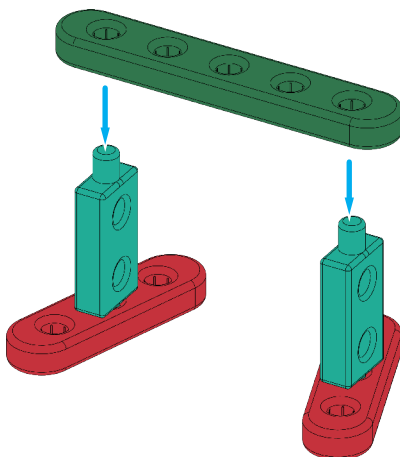
零件清單 Parts List

					
x2	x1	x2	x2	x1	x1
					
x1	x1	x2			

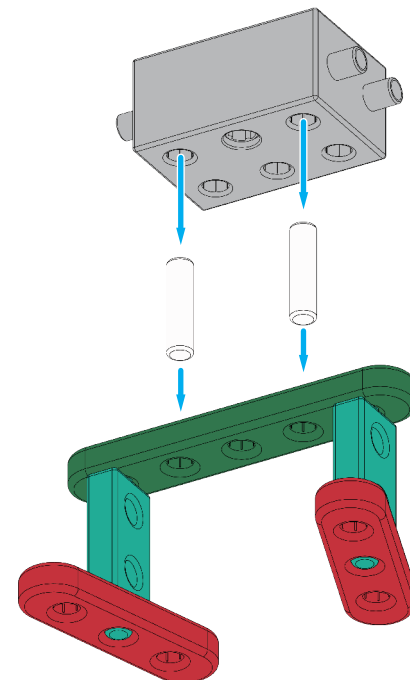
1 x2



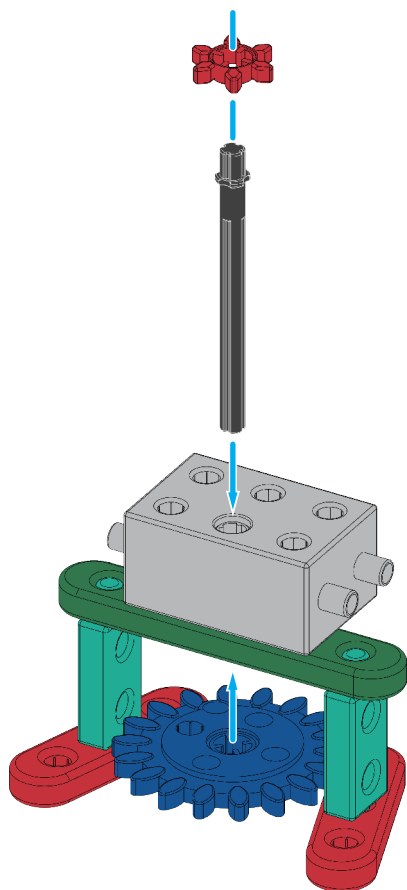
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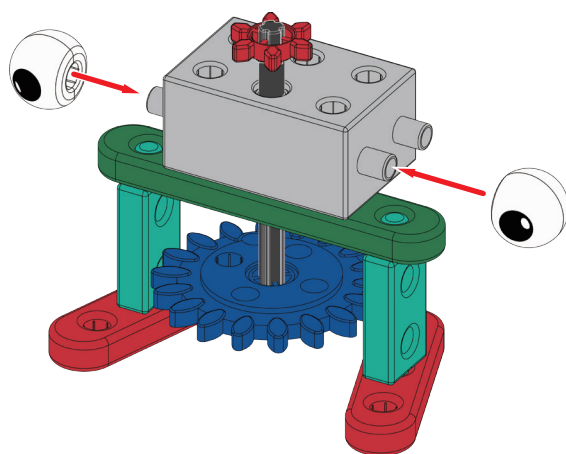
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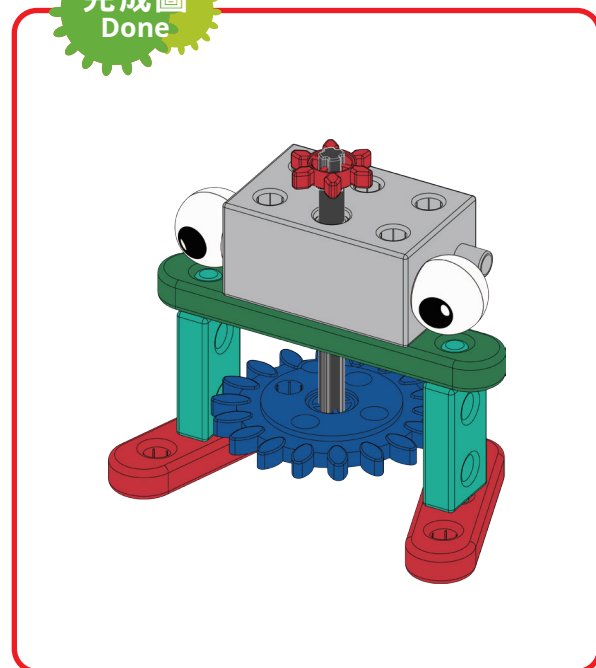
4



5



完成圖
Done











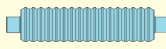




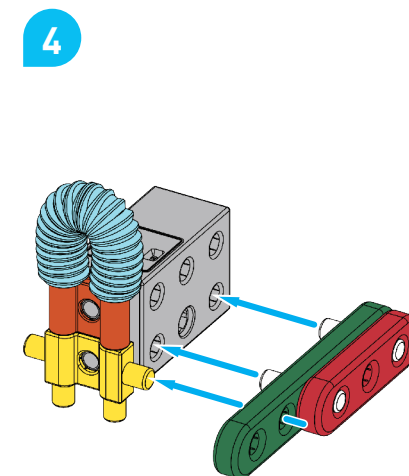
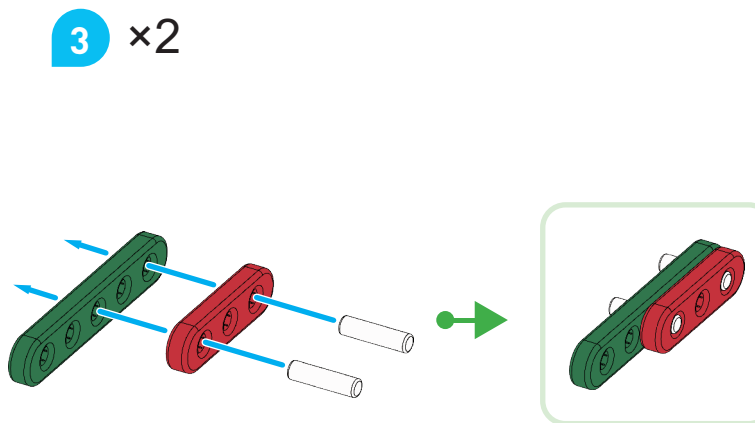
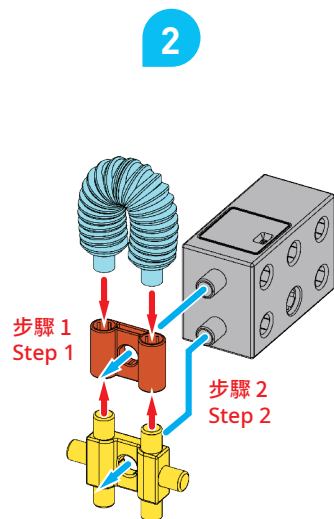
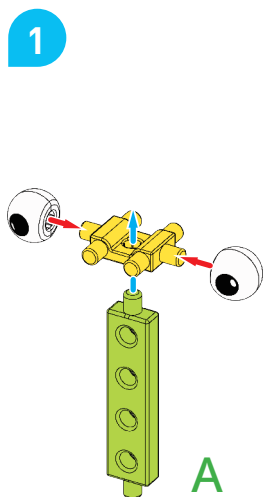
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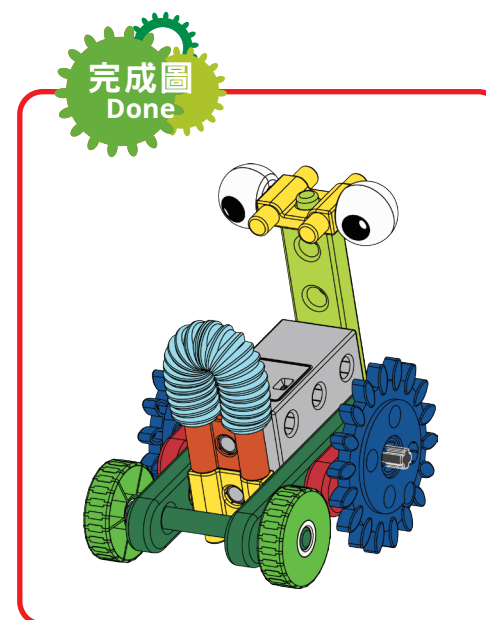
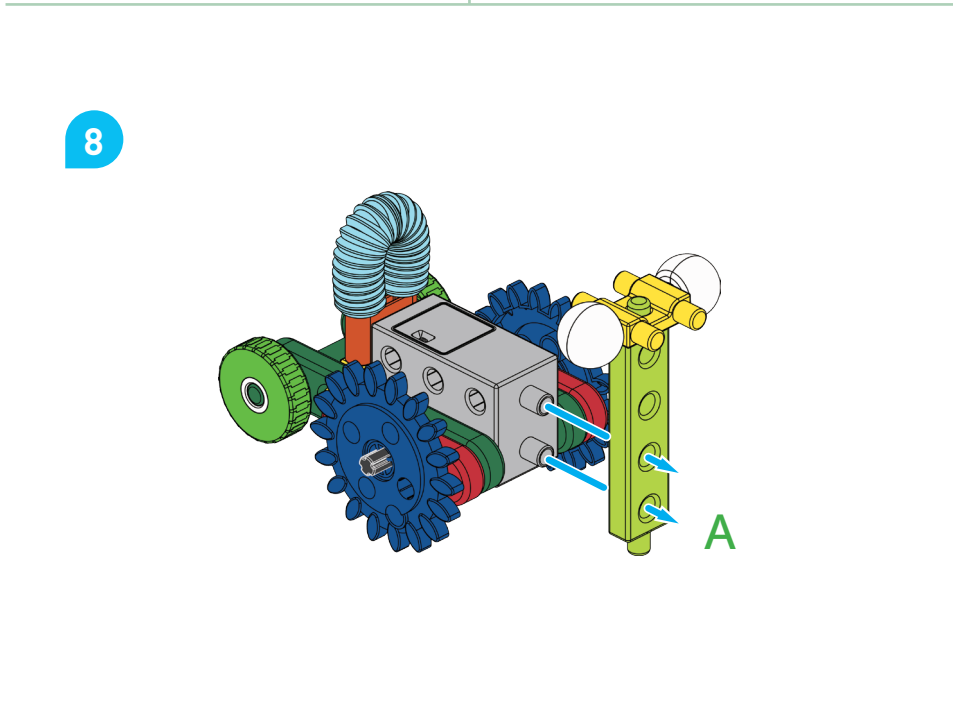
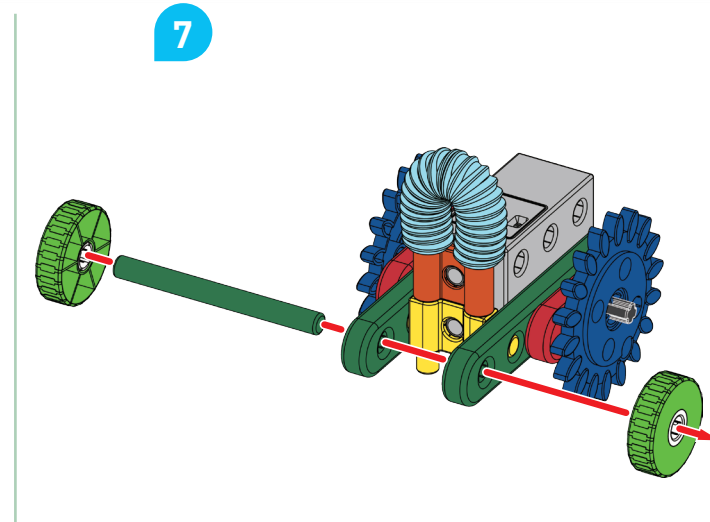
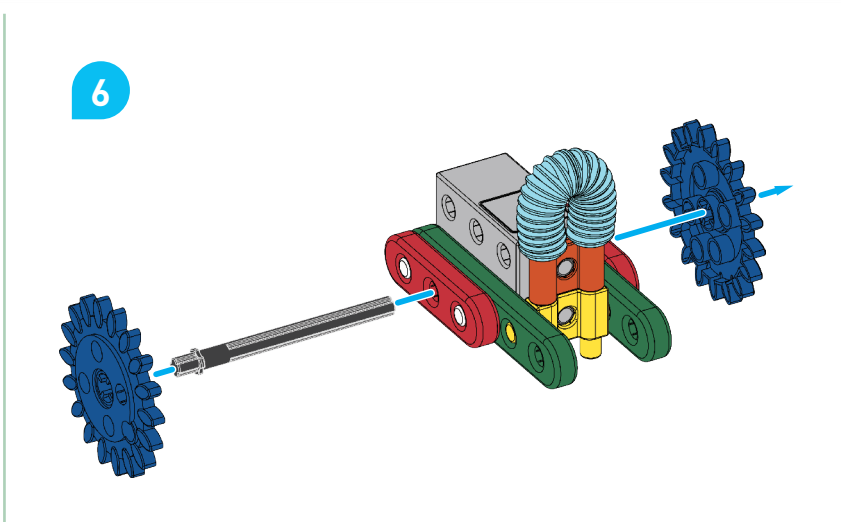
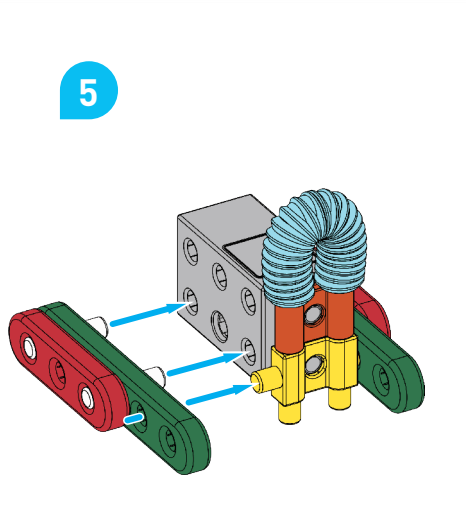
巡邏機器人
Patrol Robot



零件清單 Parts List

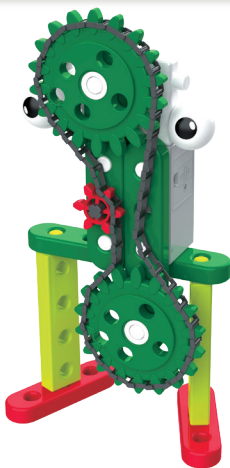
1	2	4	7	9	11
					
x2	x2	x1	x4	x1	x1
12	15	16	18	22	23
					
x1	x2	x2	x2	x1	x1
24					
					
x2					
















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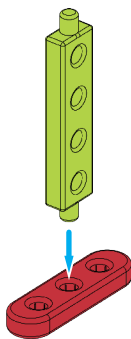
電影放映機 Film Projector



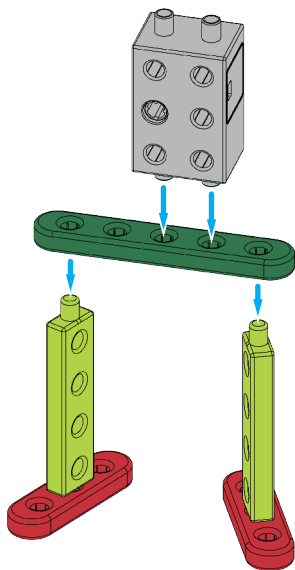
零件清單 Parts List

					
x2	x3	x2	x1	x6	x1
					
x2	x1	x1	x2	x44	

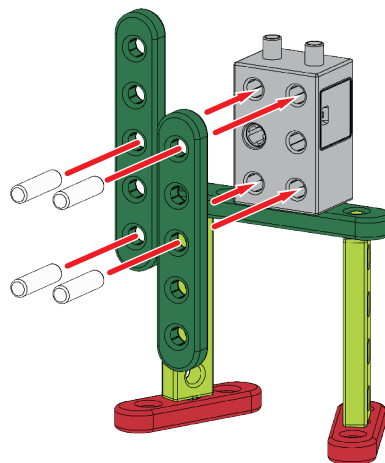
1 x2



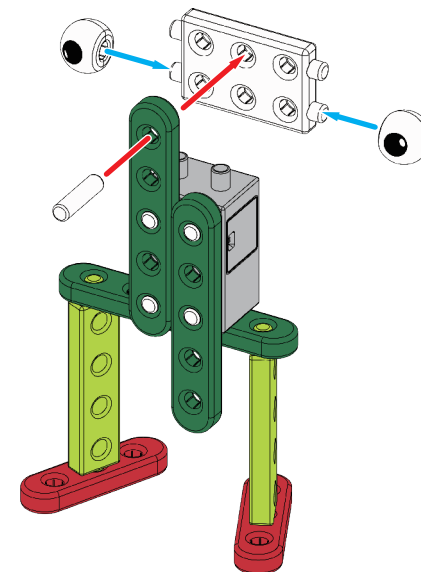
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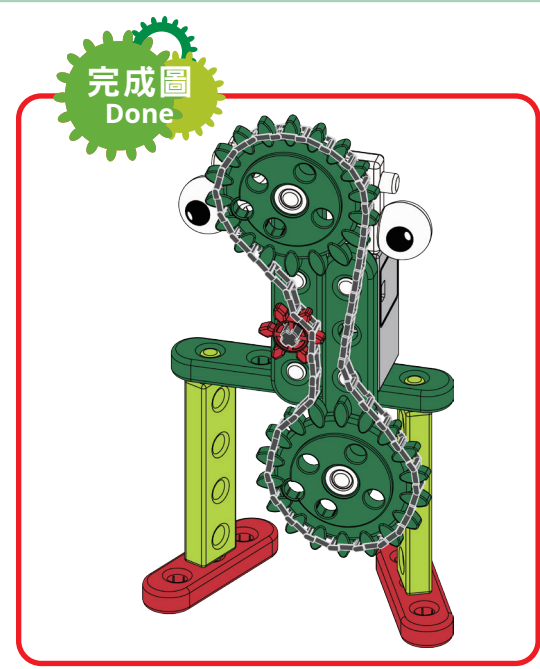
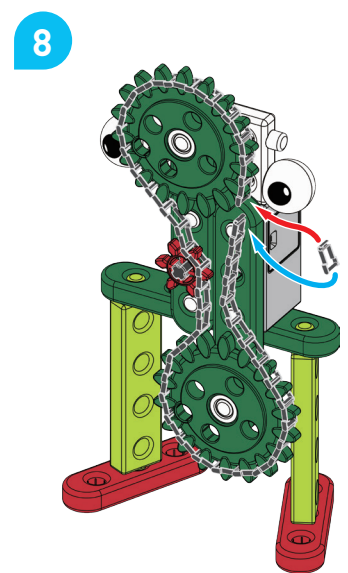
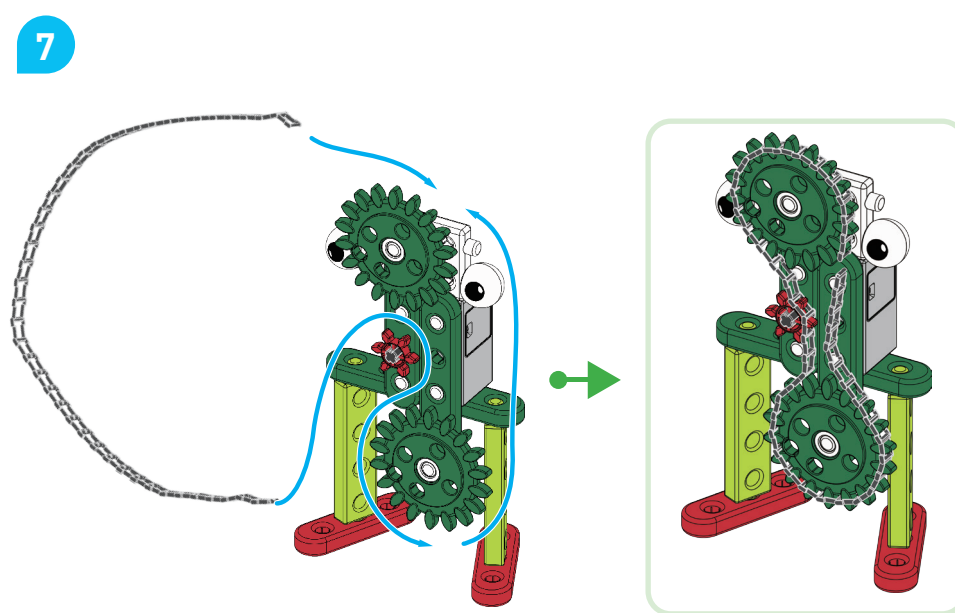
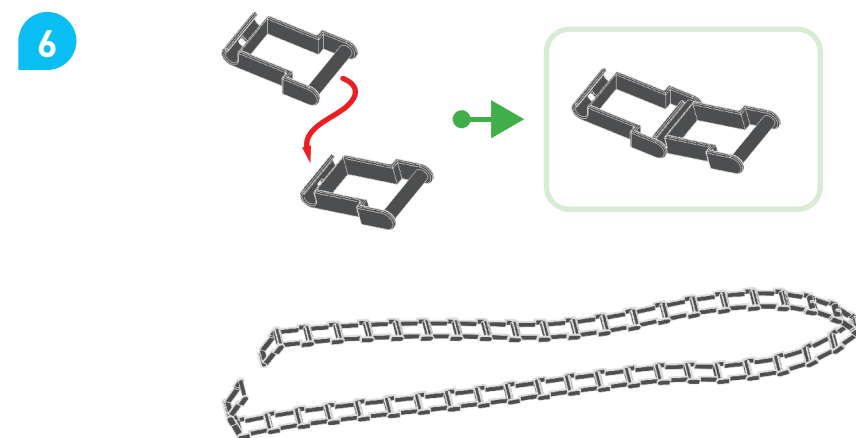
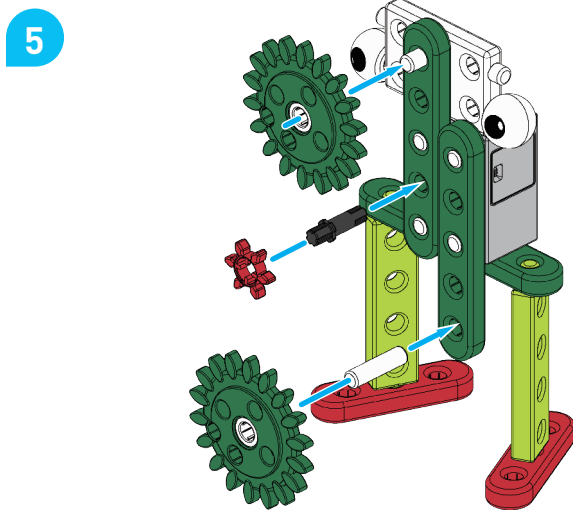


3



4

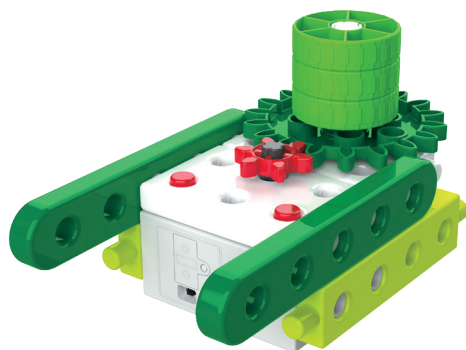














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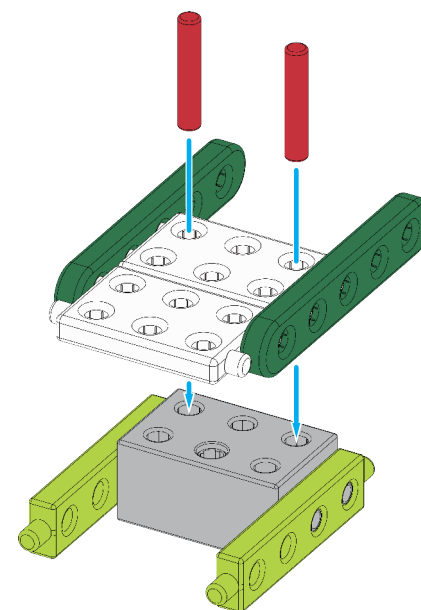
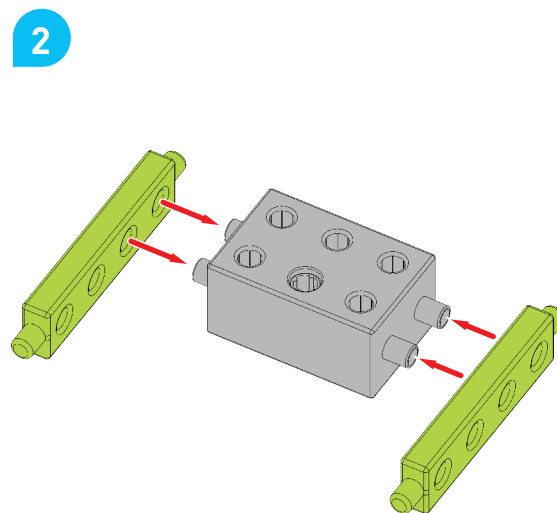
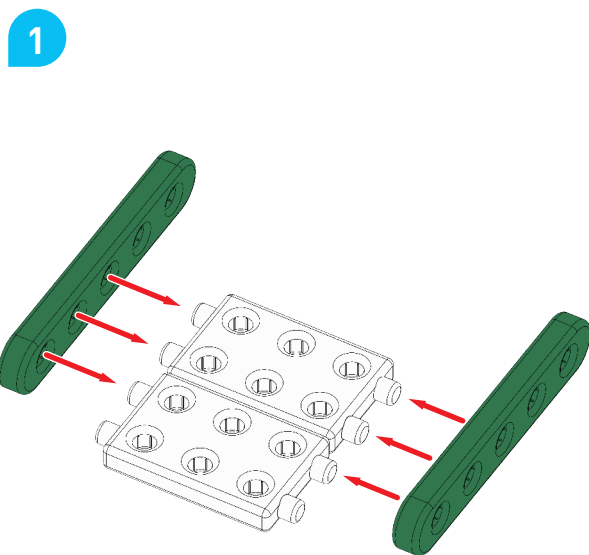
手拉坏機

Wheel-Throwing Machine

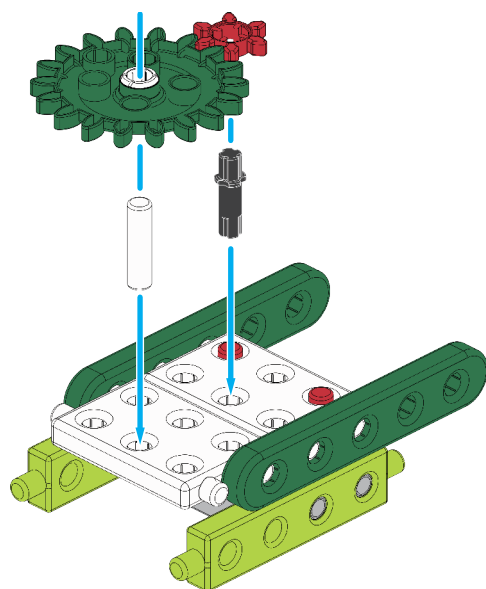


零件清單 Parts List

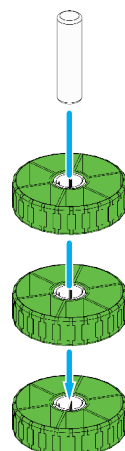
					
x2	x2	x2	x2	x2	x1
					
x3	x1	x1	x1		



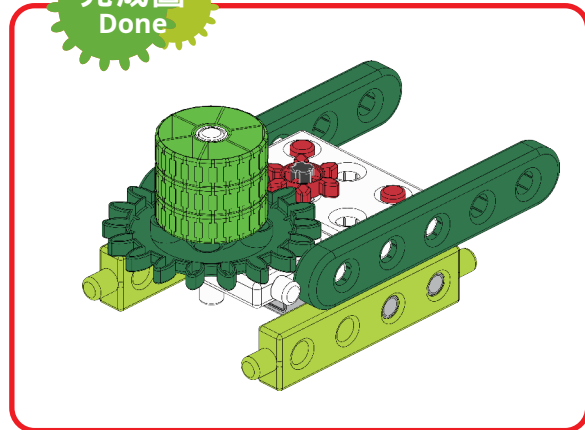
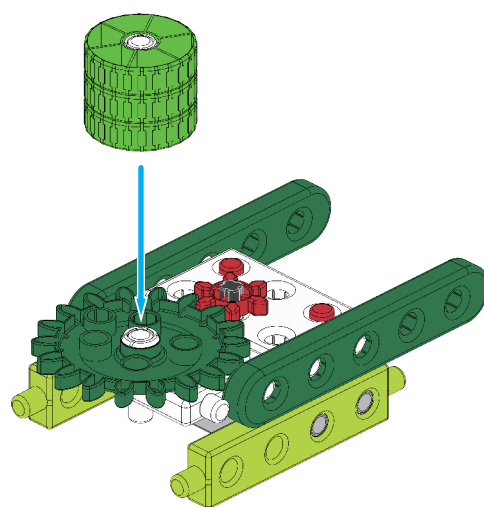
4



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6














4 生活科技 LIFE TECHNOLOGY

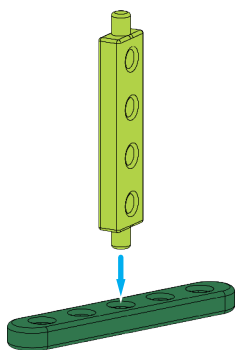
電風扇 Electric Fan



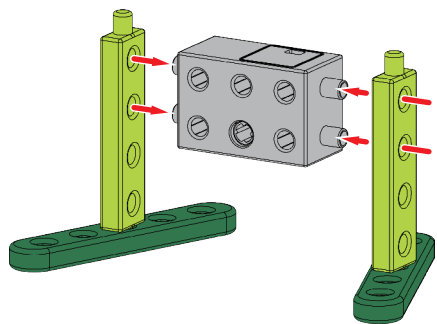
零件清單 Parts List

						
x1	x4	x2	x2	x7	x2	x1
						
x2	x1	x1	x1			

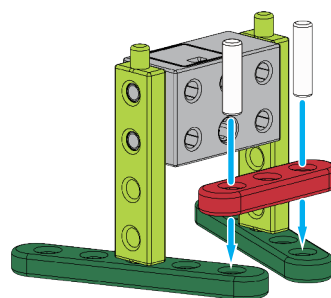
1 x2



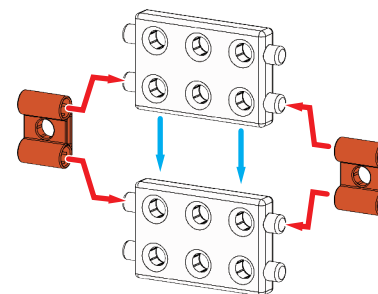
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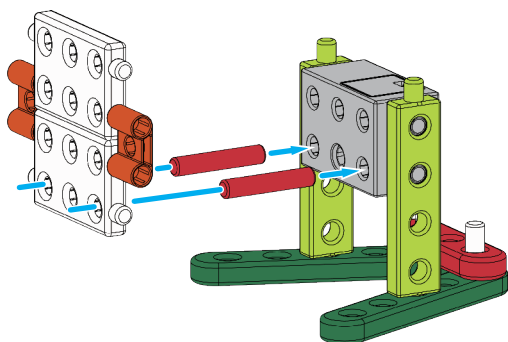
3



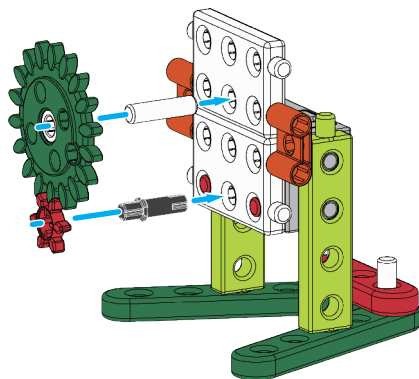
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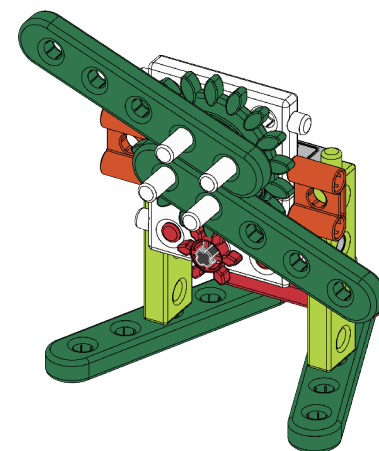
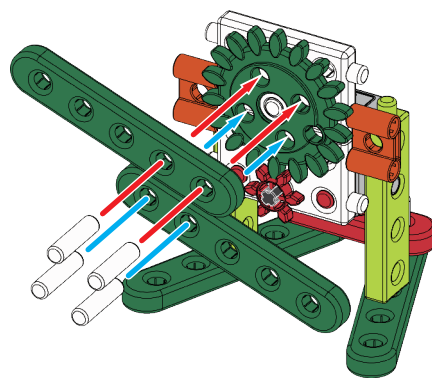
5



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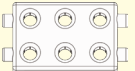



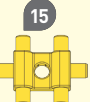



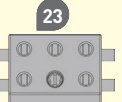



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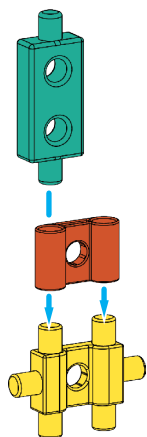
打磨機
Grinder



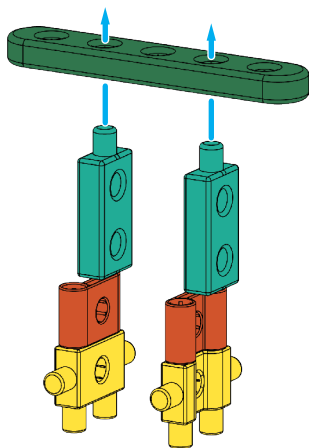
零件清單 Parts List

					
x1	x2	x2	x1	x1	x1
					
x2	x2	x1	x2	x1	x1
					
					x2

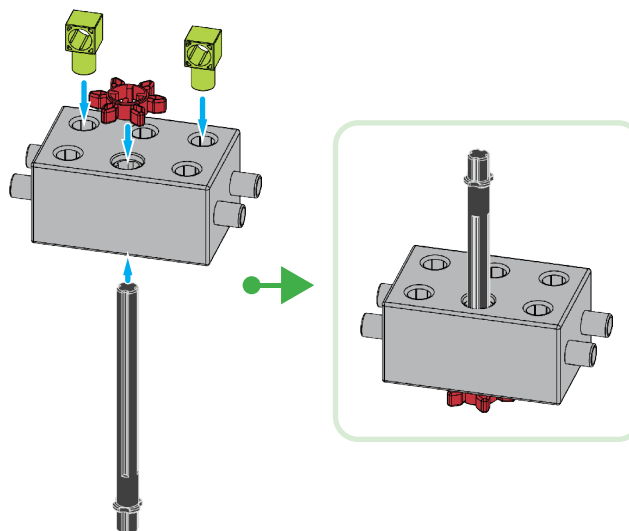
1 x2



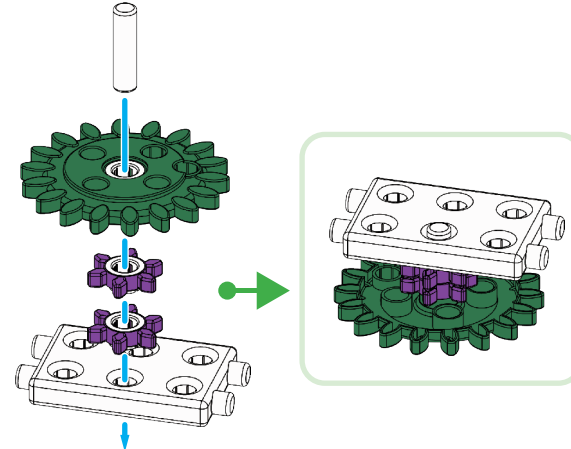
2



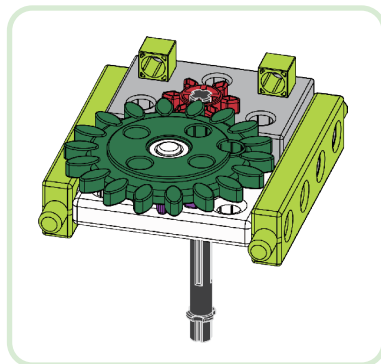
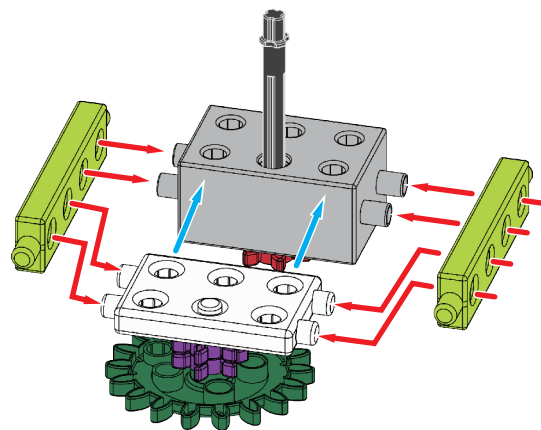
3



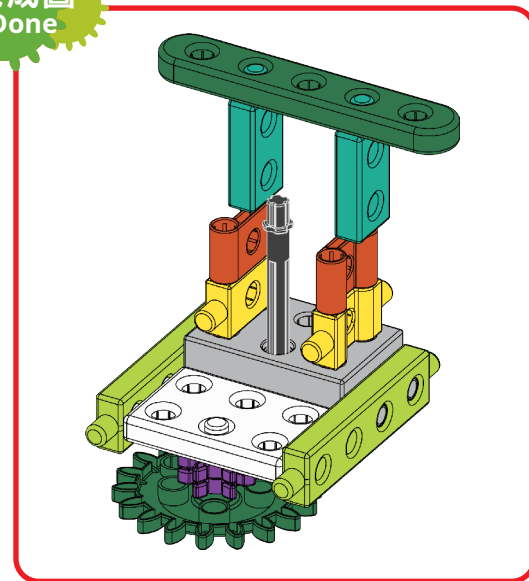
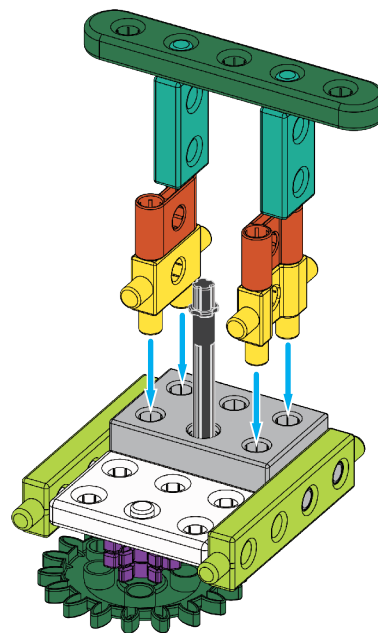
4



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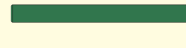










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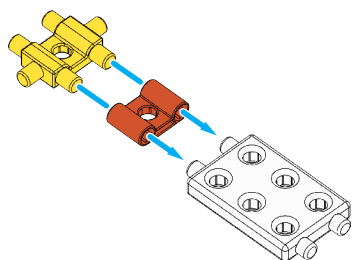
輸送帶 Conveyor Belt



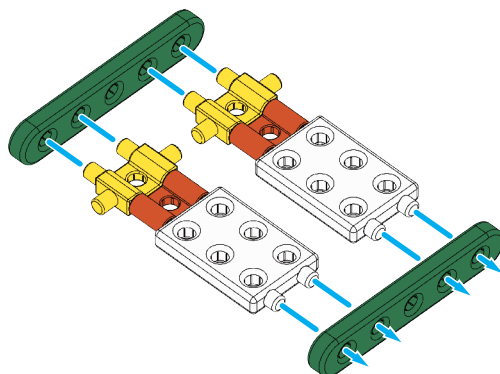
零件清單 Parts List

							
x2	x2	x1	x2	x2	x1	x1	
							
x1	x2	x1	x2	x2	x2	x1	x36

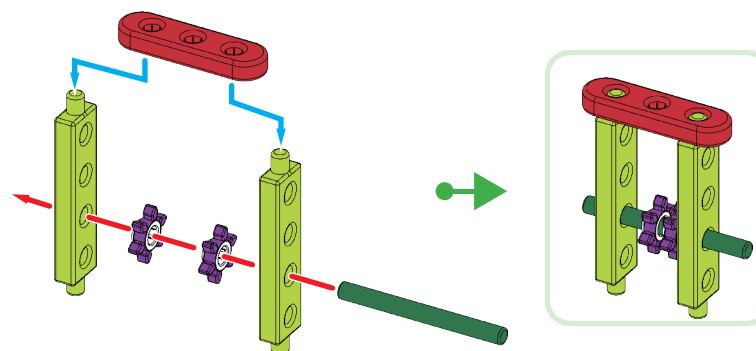
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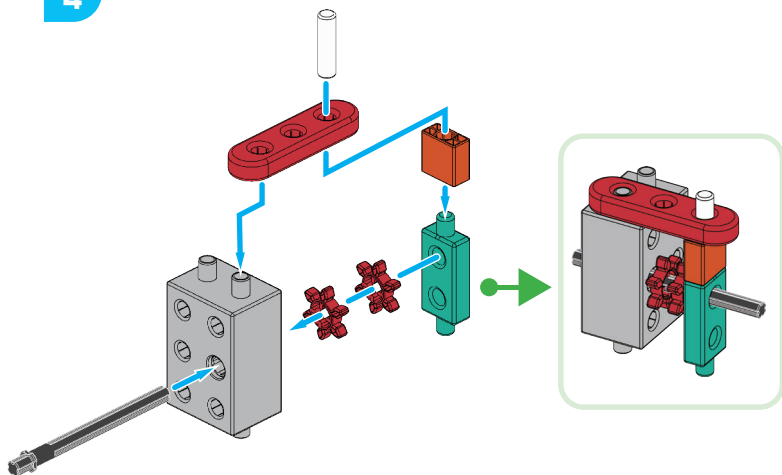
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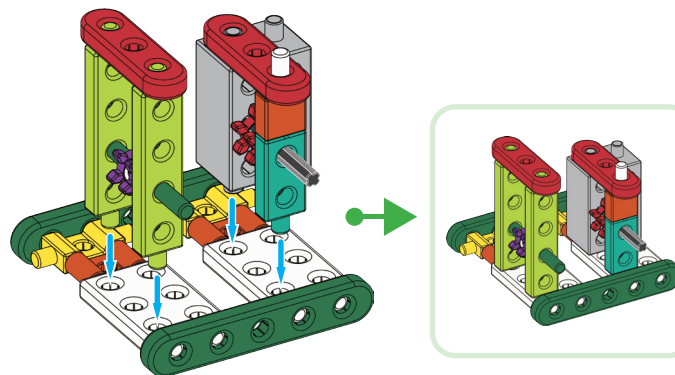
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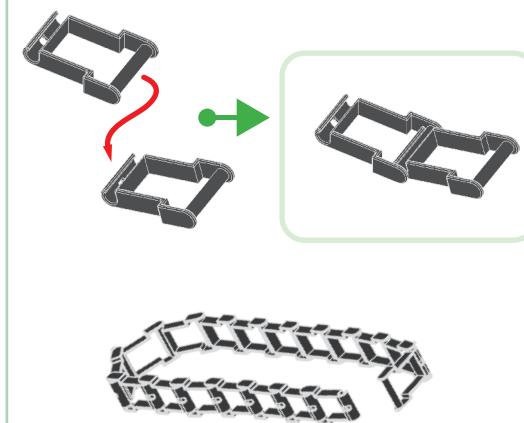
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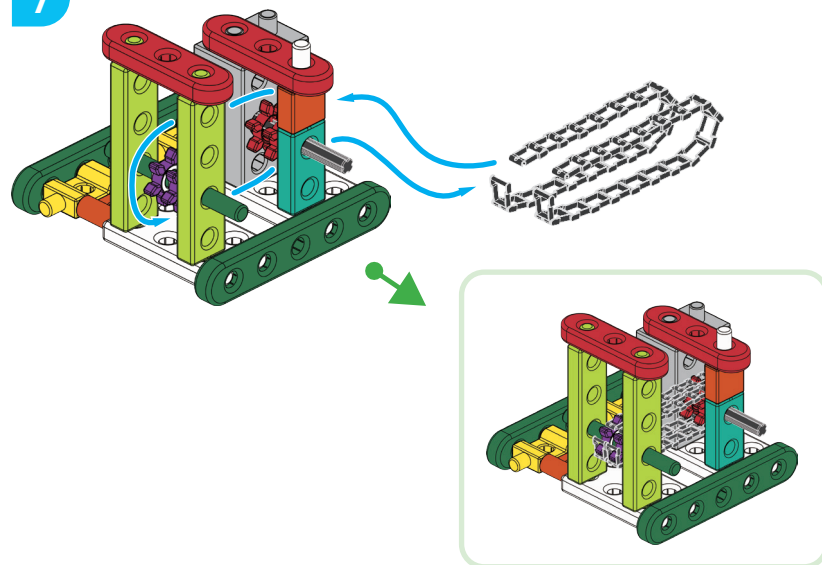
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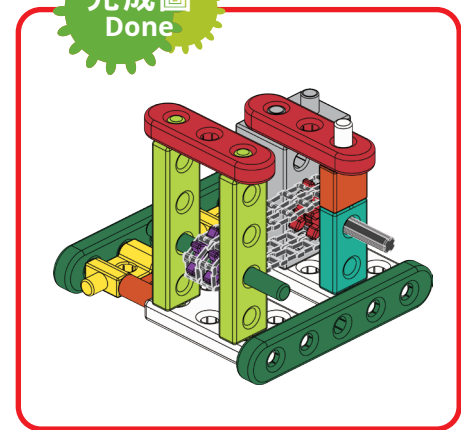
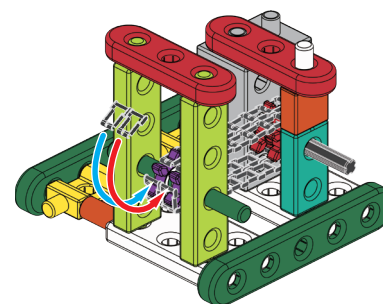
6



7



8





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