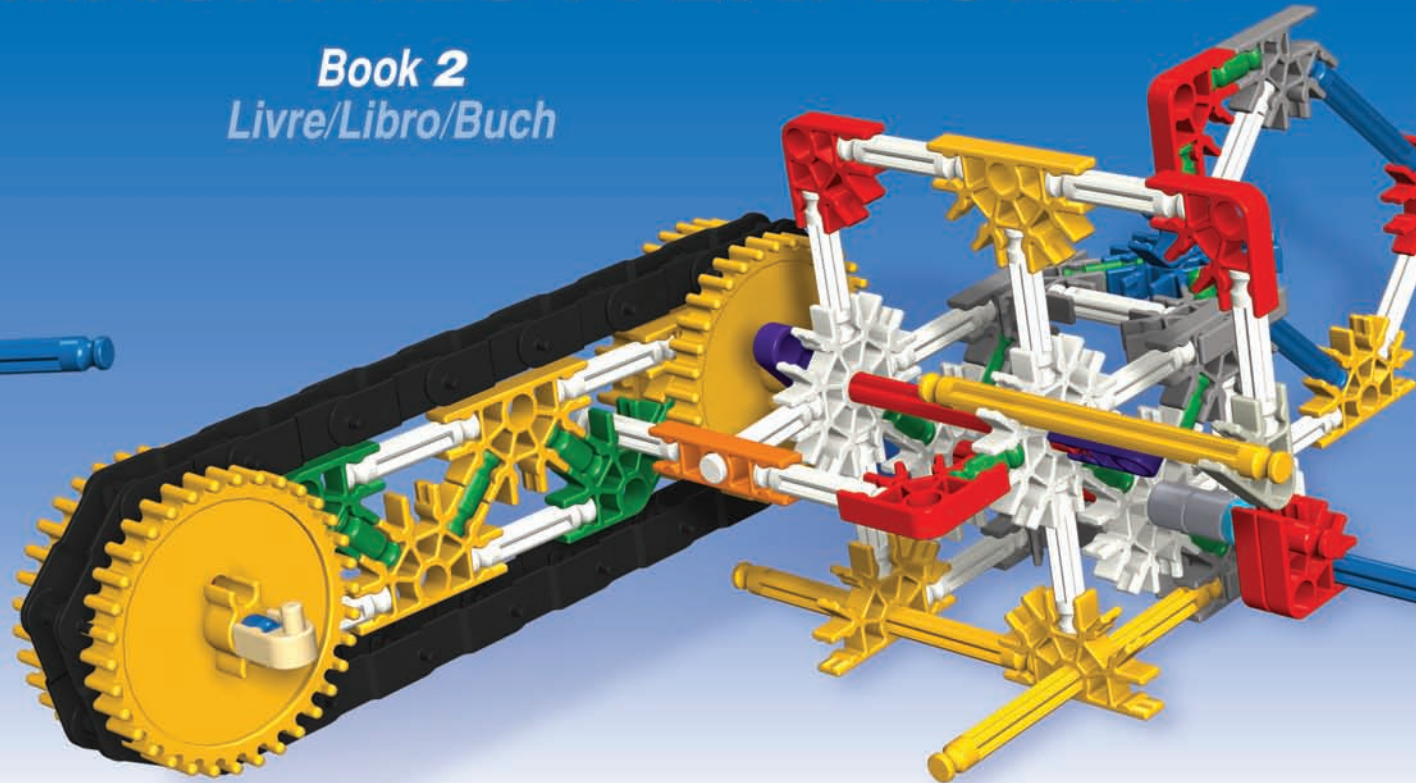
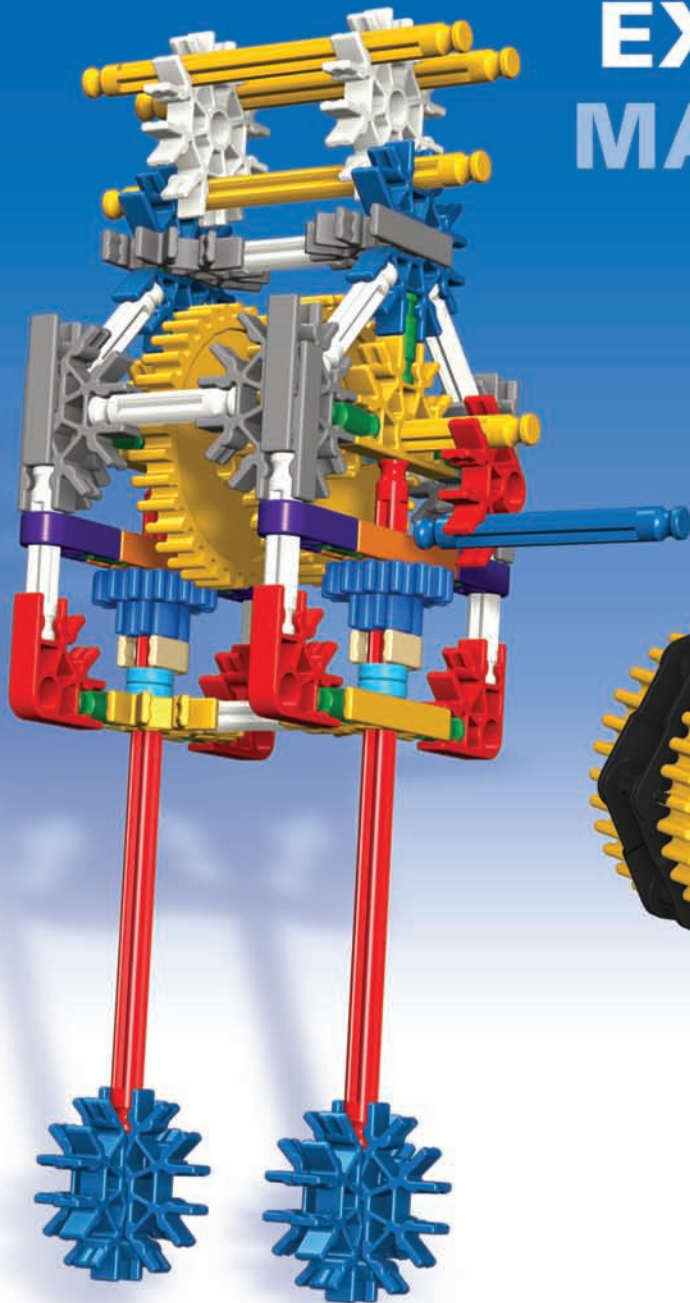


# K'NEX® Education

## EXPLORING MACHINES MACHINES À EXPLORER

*Book 2*  
*Livre/Libro/Buch*



**WARNING:** CHOKING HAZARD – Small parts.  
Not for children under 3 years.

**ATTENTION :** RISQUE D'ÉTOUFFEMENT – Pièces de petite taille.  
Ne convient pas aux enfants de moins de 3 ans.

**ADVERTENCIA:** PELIGRO DE ASFIXIA – Piezas pequeñas.  
No para niños menores de 3 años.

**WARNHINWEIS:** ERSTICKUNGSGEFAHR – Kleinteile.  
Nicht geeignet für Kinder unter 3 Jahren.

78600

**10+**  
AGE  
ÂGE/EDAD/ALTER

## CONTENTS

## CONTENUS

### EN **LEVERS** FR **DE LEVIERS**

|                            |           |
|----------------------------|-----------|
| <b>Bottle Opener</b> ..... | <b>5</b>  |
| Ouvre-bouteille            |           |
| <b>Scissors</b> .....      | <b>6</b>  |
| Ciseaux                    |           |
| <b>Tongs</b> .....         | <b>7</b>  |
| Pinces                     |           |
| <b>Stapler</b> .....       | <b>8</b>  |
| Agrafeuse                  |           |
| <b>Rowboat</b> .....       | <b>10</b> |
| Canot à rames              |           |
| <b>Fishing Rod</b> .....   | <b>12</b> |
| Canne à pêche              |           |
| <b>Grand Piano</b> .....   | <b>14</b> |
| Piano à queue              |           |

### EN **PULLEYS** FR **DE POULIES**

|                          |           |
|--------------------------|-----------|
| <b>Garage Door</b> ..... | <b>18</b> |
| Porte de garage          |           |
| <b>Crane</b> .....       | <b>21</b> |
| Grue                     |           |

### EN **WHEELS & AXLES** FR **LES ROUES ET LES AXES**

|                             |           |
|-----------------------------|-----------|
| <b>Wrench and Nut</b> ..... | <b>27</b> |
| Clé & écrou                 |           |

### EN **INCLINED PLANES** FR **PLANS INCLINÉS**

|                               |           |
|-------------------------------|-----------|
| <b>Spiral Staircase</b> ..... | <b>28</b> |
| Escalier en colimaçon         |           |
| <b>Axe</b> .....              | <b>30</b> |
| Hache                         |           |

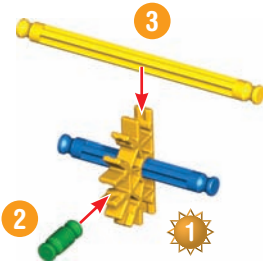
### EN **GEARS** FR **ENGRENAGES**

|                        |           |
|------------------------|-----------|
| <b>Chain Saw</b> ..... | <b>31</b> |
| Scie à chaîne          |           |
| <b>Eggbeater</b> ..... | <b>34</b> |
| Fouet à œufs           |           |

# Building with K'NEX Construire avec K'NEX

## EN Start Building

To begin your model, find the ❶ and follow the numbers. Each piece has its own shape and color. Just look at the pictures, find the pieces in your set that match and then connect them together. Try to face your model in the same direction as the instructions while you build.



## FR Prépare-toi à construire

Pour commencer le modèle, trouve le numéro ❶ et suis les chiffres. Chaque pièce a sa propre forme et couleur. Il suffit de regarder l'illustration, de trouver les pièces dans ton jeu qui correspondent à ce que tu vois et de les enclencher. Essaie de tenir le modèle dans le même sens que dans l'illustration. Ainsi, tes pièces seront attachées correctement.

## EN Spacers

There are places in your model where you need to add blue and silver spacers. Be sure to count them carefully.

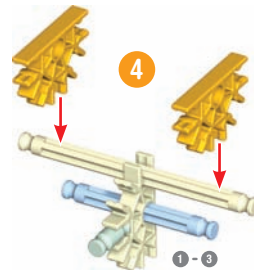


## FR Pièces d'écartement

Il y a des endroits dans ton modèle où tu dois ajouter des pièces d'écartement bleues et argentées. Assure-toi d'utiliser la couleur exacte et de compter les pièces avec soin.

## EN Next Step

The arrows show you where the parts connect, but not all connection points have arrows. The faded color parts are the ones you have already put together.



## FR Continuation

Les flèches t'indiquent où les pièces s'assemblent, mais les points de raccordement n'ont pas tous des flèches. Les pièces de couleur délavée sont celles que tu as déjà assemblées.

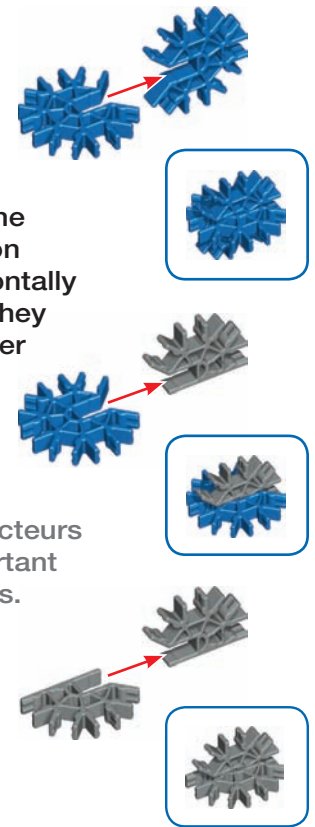
EN ⚠ **WARNING: CHOKING HAZARD - Small Parts.** Not for children under the age of 3 years.

**CAUTION:** Keep hands, face, hair and clothing away from all moving parts.

**CAUTION:** Rubber bands can cause injury from snap-back, breaking, or loss of control. While assembling models shown in the instructions, hold rubber band tightly, and do not overstretch. Use rubber bands only as shown in these instructions. **DO NOT USE FRAYED OR TORN RUBBER BANDS.**

## EN Connectors

It's very important to position blue and gray connectors in a specific direction. Pay close attention to the instructions, and position these connectors horizontally or vertically exactly as they are shown. Push together tightly until you hear a "click".



## FR Connecteurs

Tu trouveras des connecteurs bleues et grises comportant des fentes extra-longues. Ils se glissent l'un dans l'autre tel qu'illustré. Pousse les pièces ensemble jusqu'à ce que tu entendes un "déclat".

FR ⚠ **AVERTISSEMENT : DANGER D'ÉTOUFFEMENT - Petites pièces.** Ne convient pas aux enfants de moins de 3 ans.

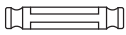
**ATTENTION :** Garde les cheveux, les doigts, la figure et les vêtements à l'écart de toutes les pièces mobiles.

**ATTENTION :** Les élastiques peuvent causer des blessures en claquant, en se cassant ou quand on les manipule imprudemment. Tenez fermement l'élastique lors de l'assemblage du modèle en veillant à ne pas trop le tendre. N'utilisez les élastiques que selon les instructions. **N'UTILISEZ PAS D'ÉLASTIQUES ÉRAILLÉS OU DÉCHIRÉS.**

**EN** Total parts for the set are listed below.

**FR** Les parties totales pour la série sont énumérées au dessous.

144 

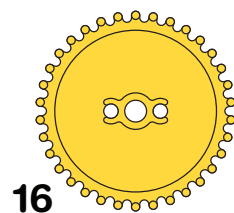
128 

176 

124 

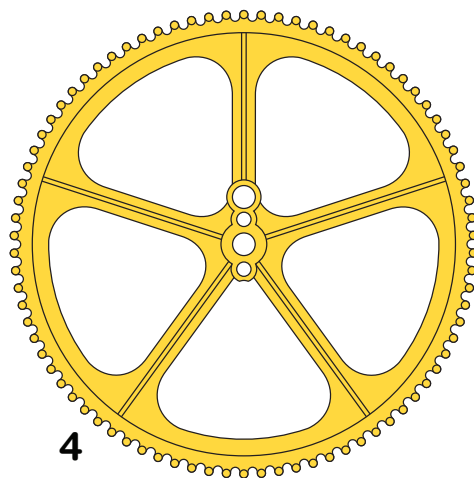
8 

16 



8  (7 in)  
(2.13 m)

132 



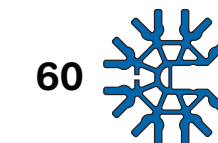
72 



36 



12 



20 

88 

36 

8 

36 



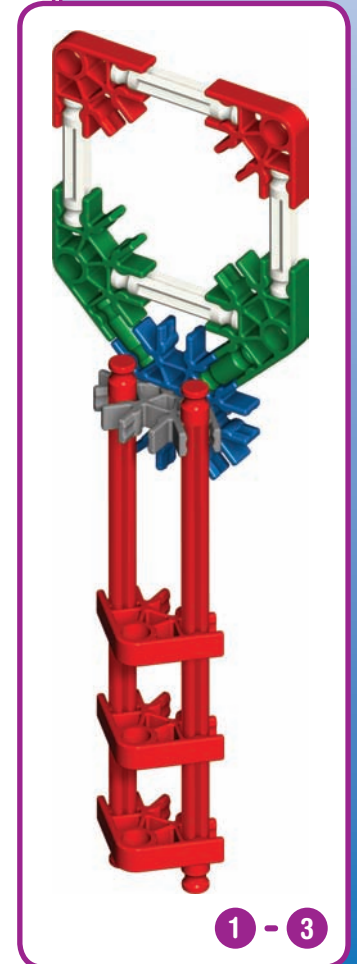
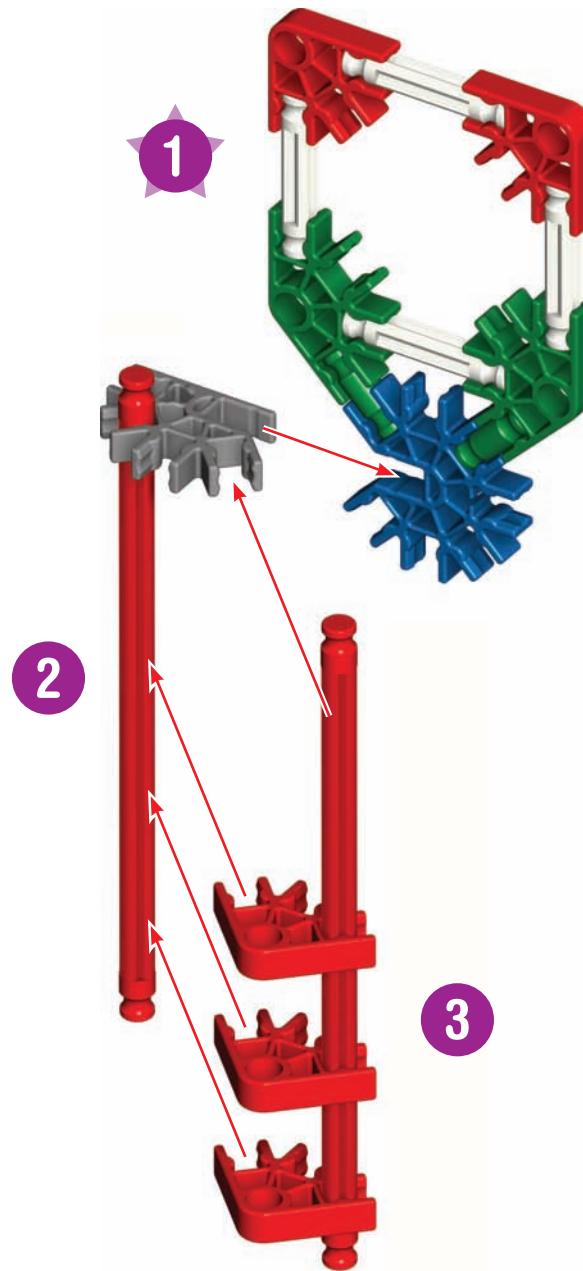
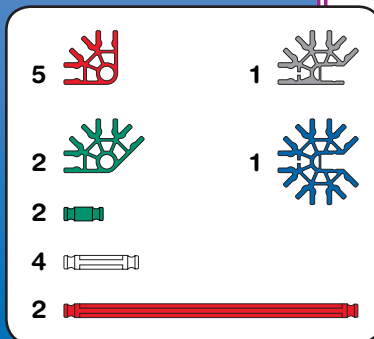
4  (#32)



# Bottle Opener Ouvre-bouteille



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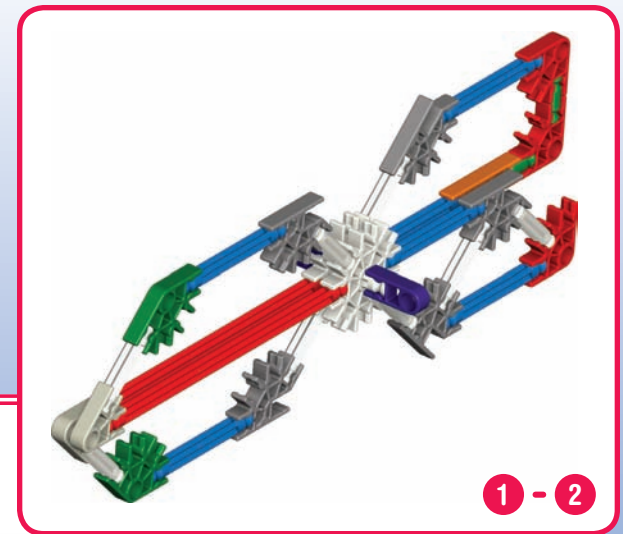


# Scissors Ciseaux

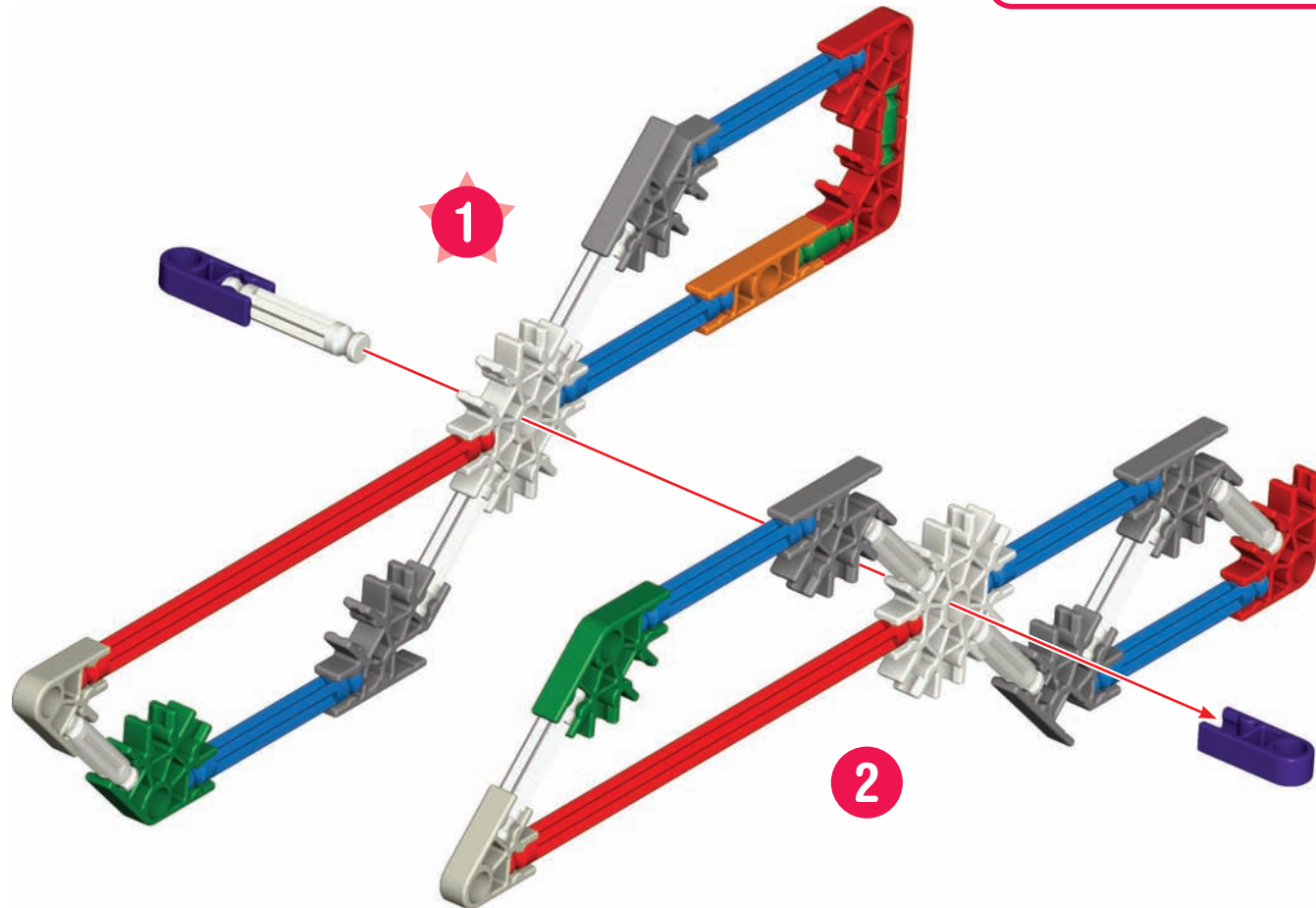


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|   |   |   |   |
|---|---|---|---|
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| 2 | 5 | 9 | 2 |
| 3 | 2 | 6 |   |
|   |   | 2 |   |



1 - 2

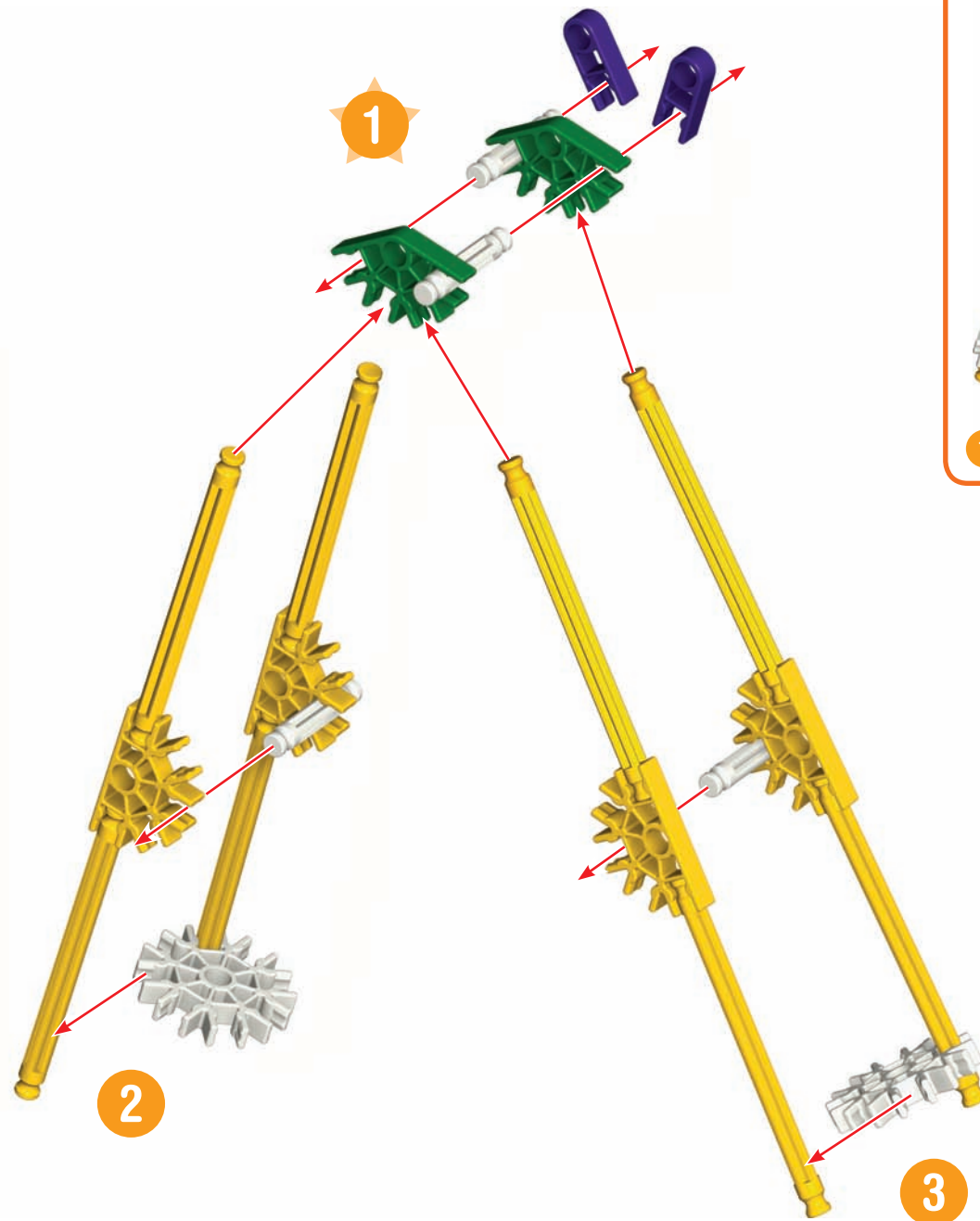
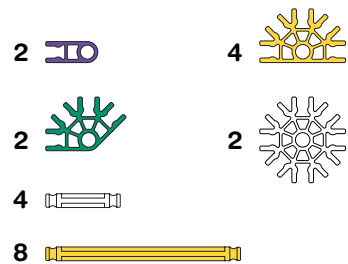


# Tongs Pinces



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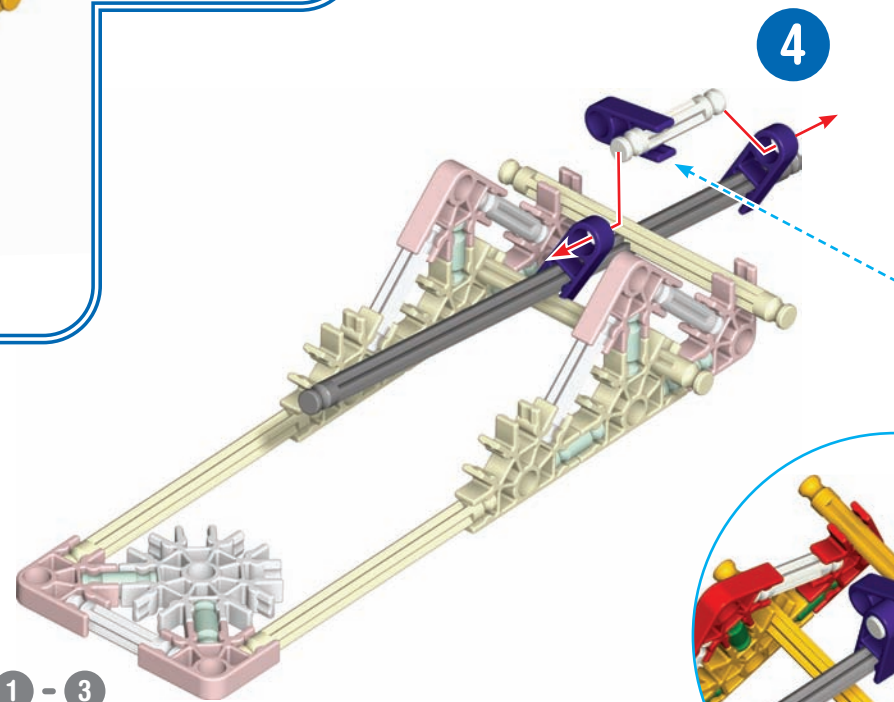
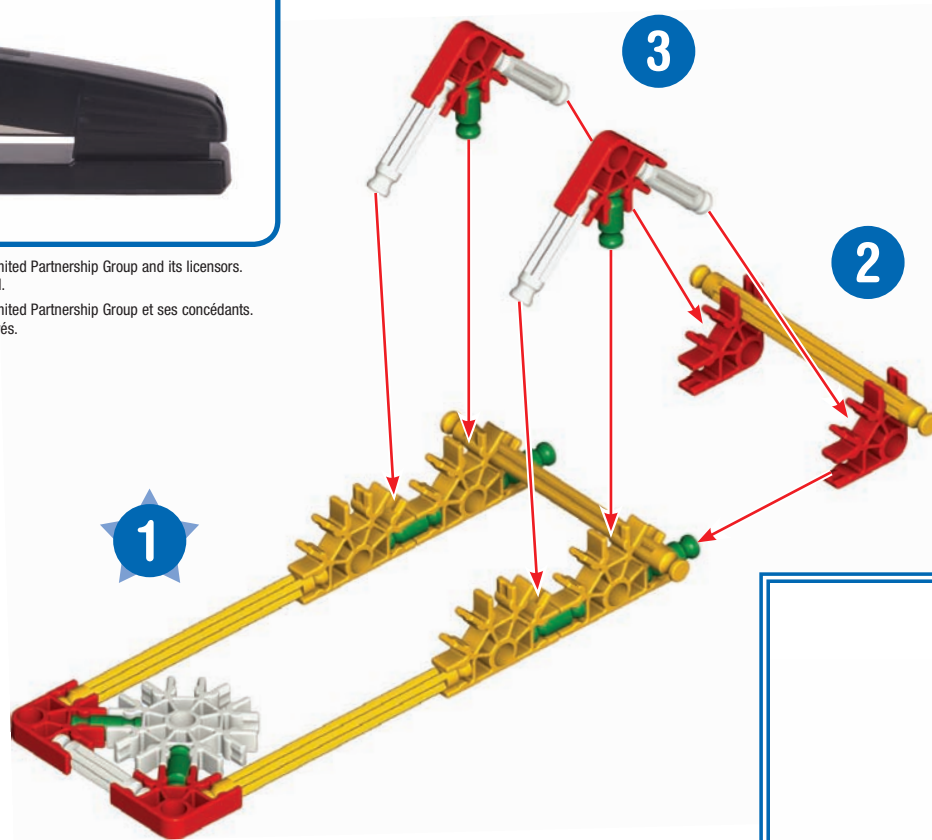
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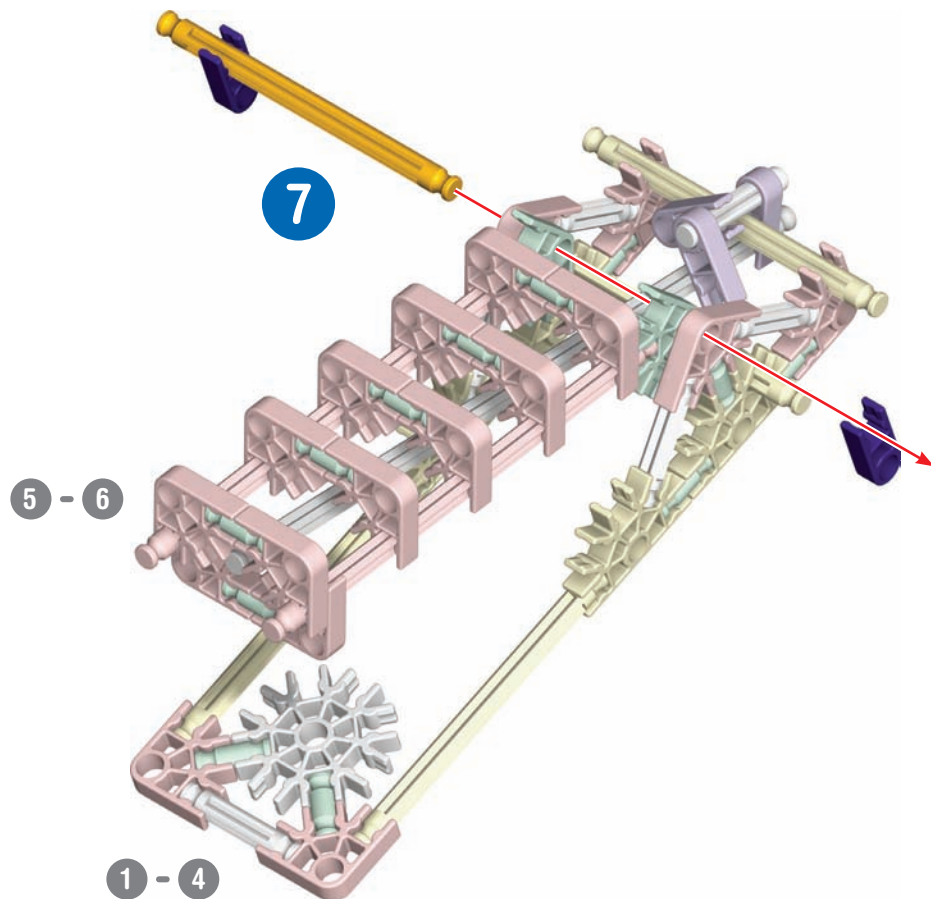
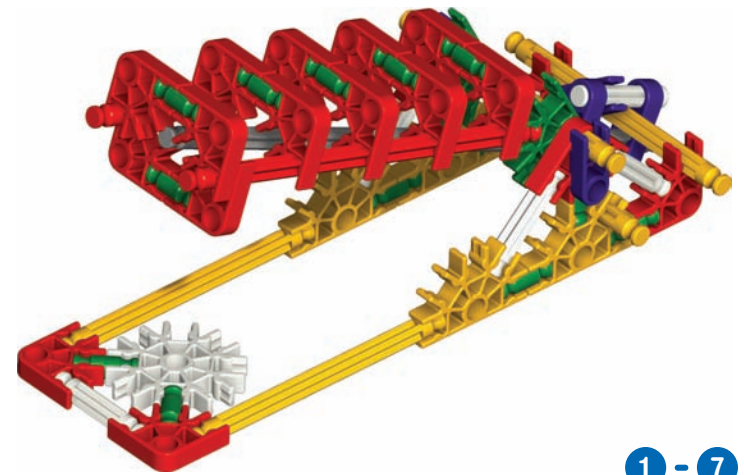
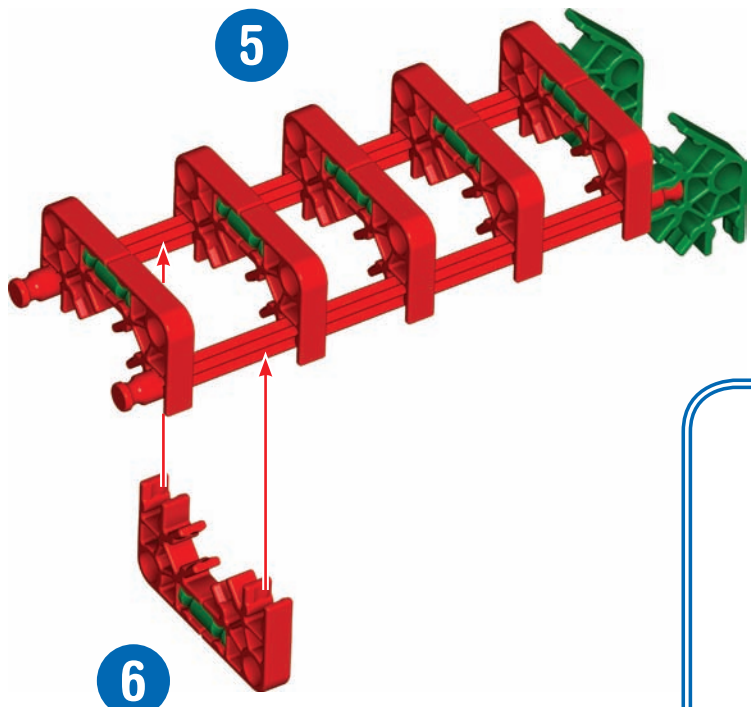
# Stapler Agrafeuse



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- |    |  |    |  |   |  |
|----|--|----|--|---|--|
| 5  |  | 18 |  | 4 |  |
| 14 |  | 2  |  | 1 |  |
| 6  |  |    |  |   |  |
| 5  |  |    |  |   |  |
| 2  |  |    |  |   |  |
| 1  |  |    |  |   |  |

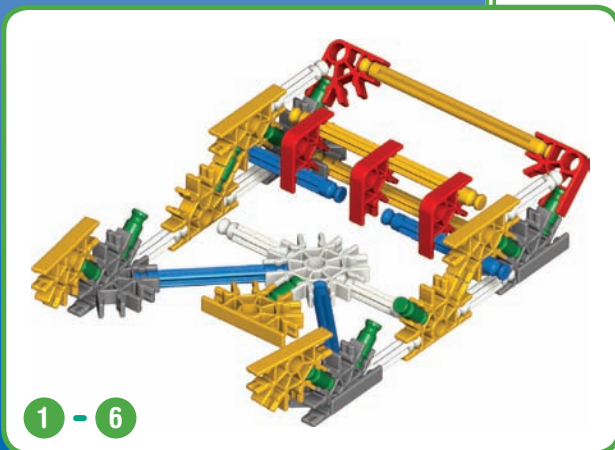
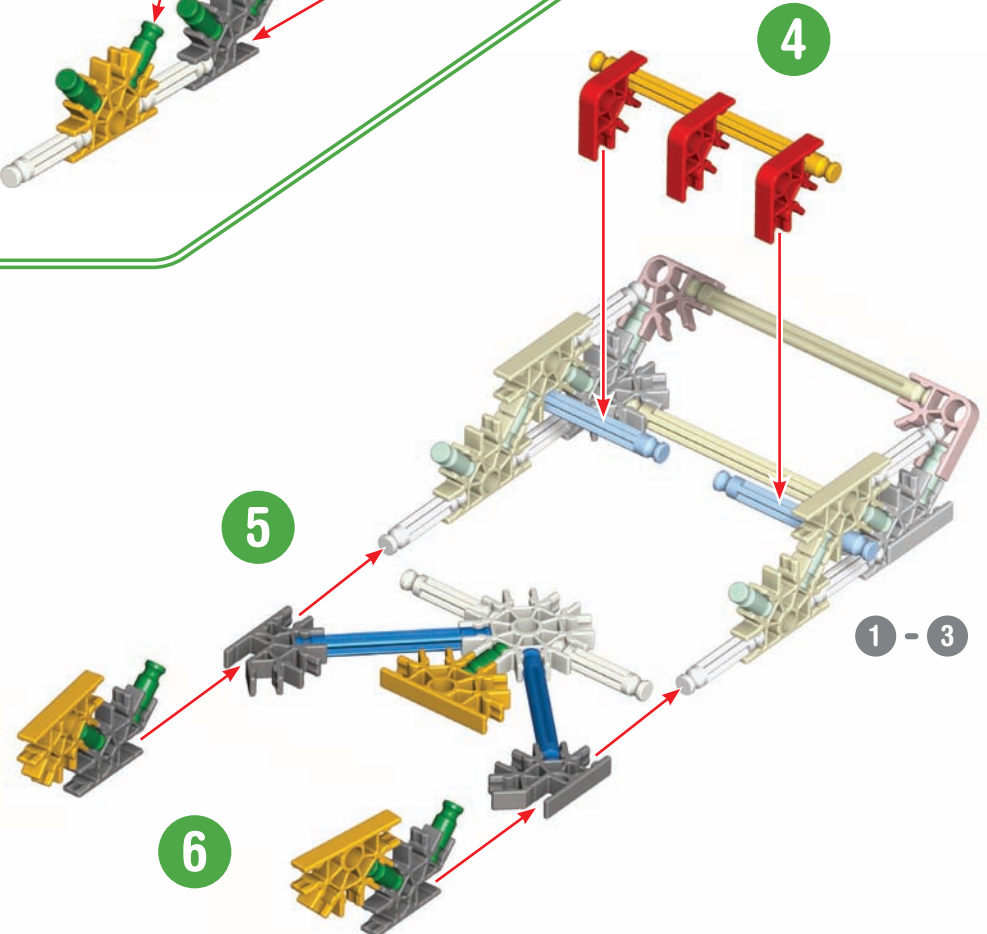
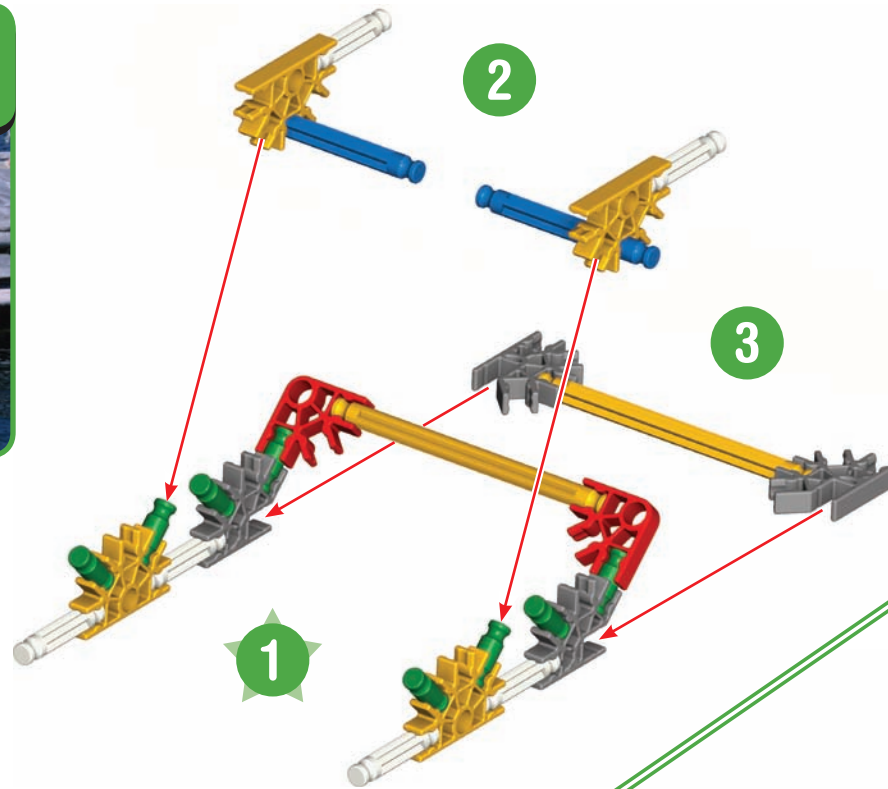


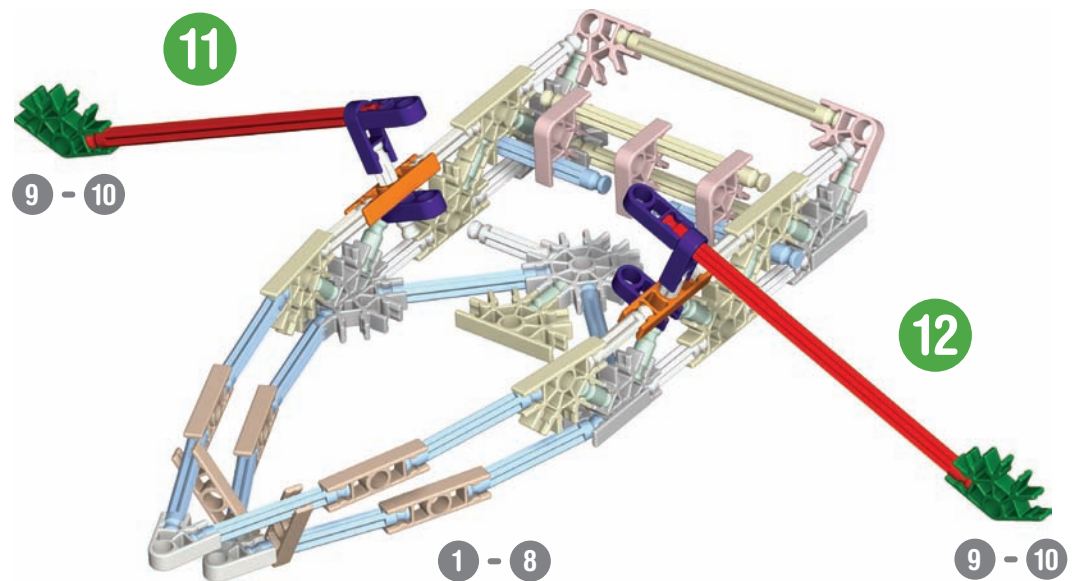
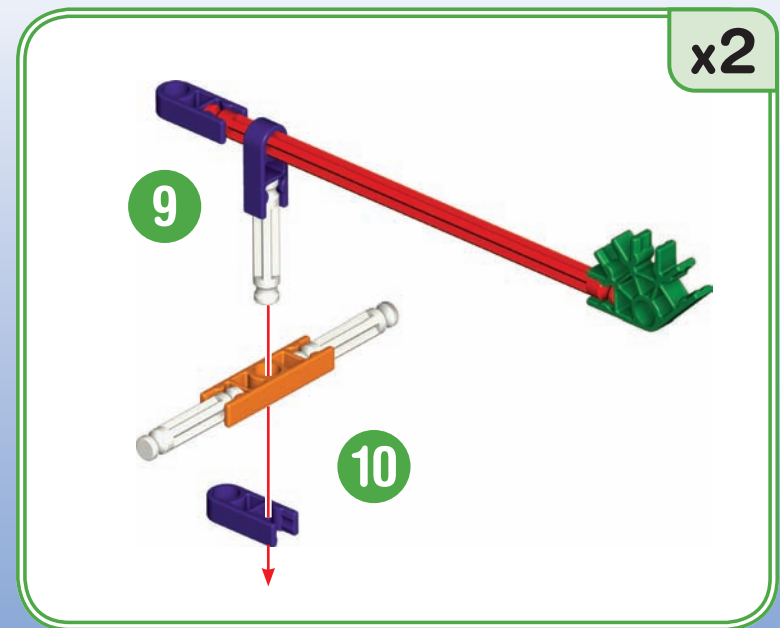
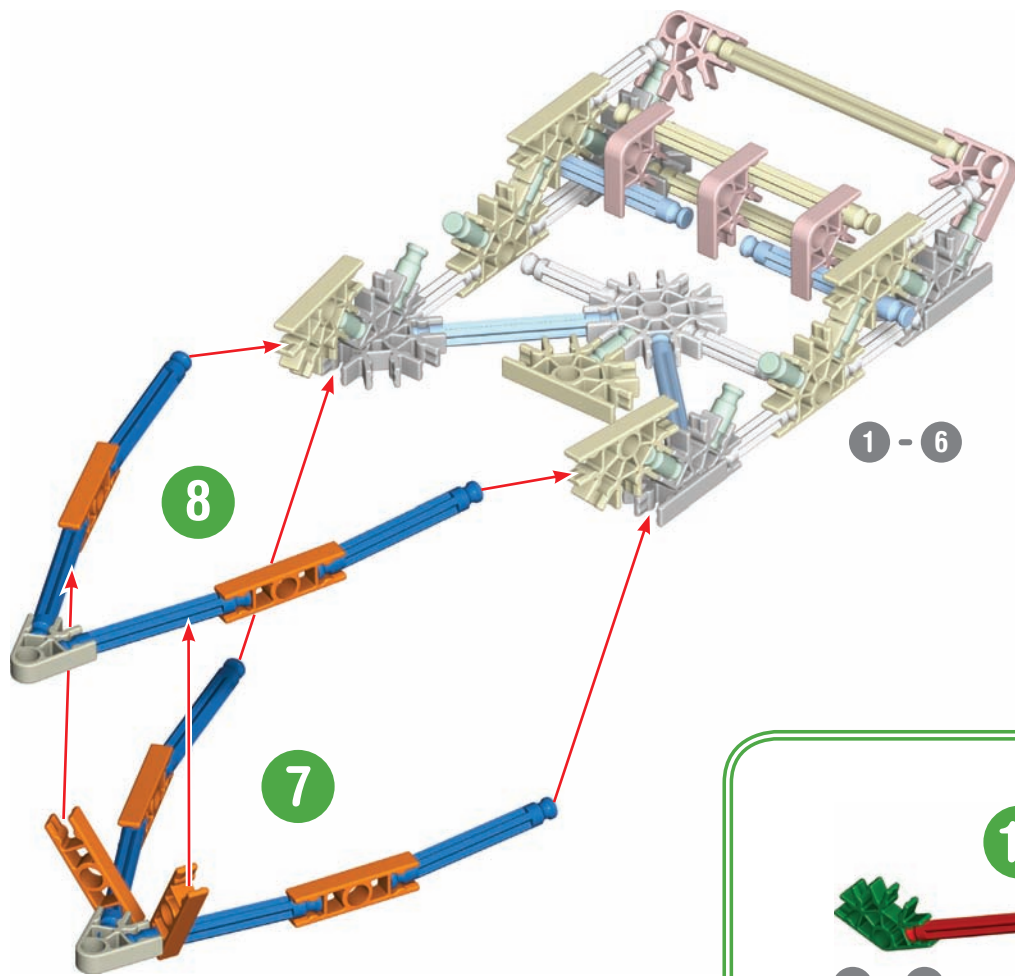
# Rowboat Canot à rames



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- |    |   |   |
|----|---|---|
| 6  | 8 | 2 |
| 2  | 5 | 8 |
| 13 | 7 | 1 |
| 14 |   |   |
| 12 |   |   |
| 3  |   |   |
| 2  |   |   |



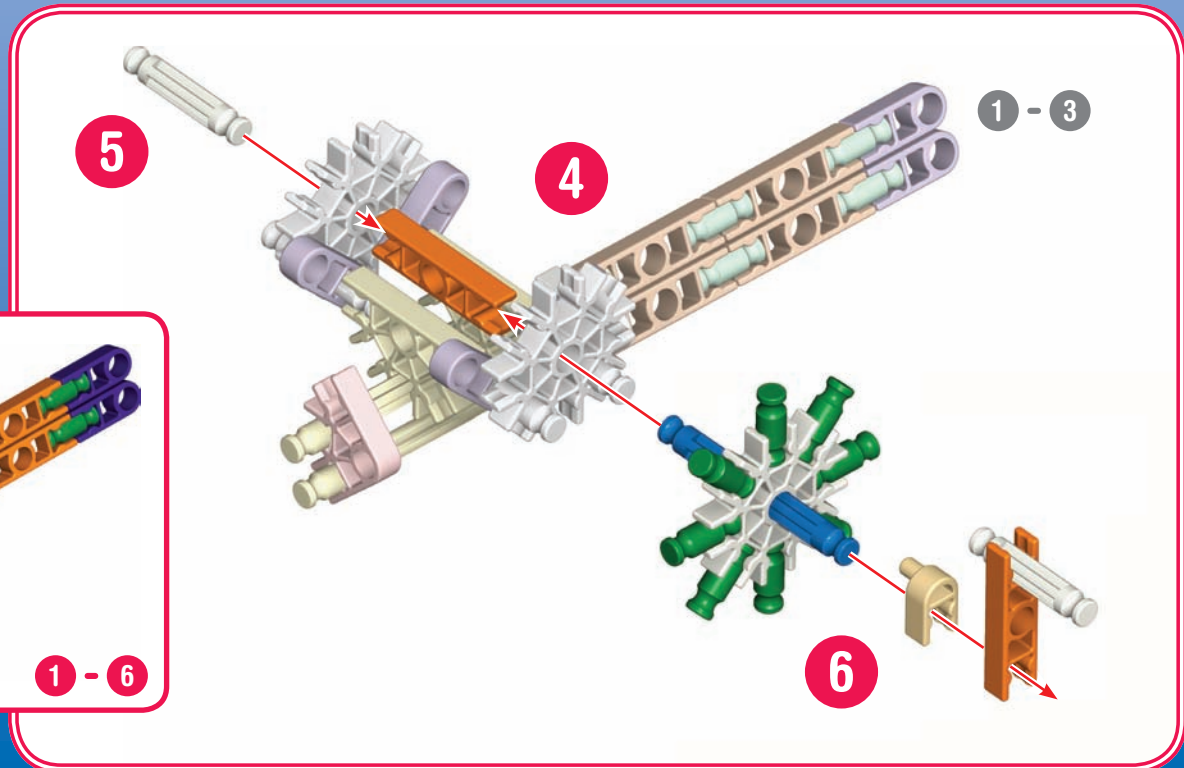
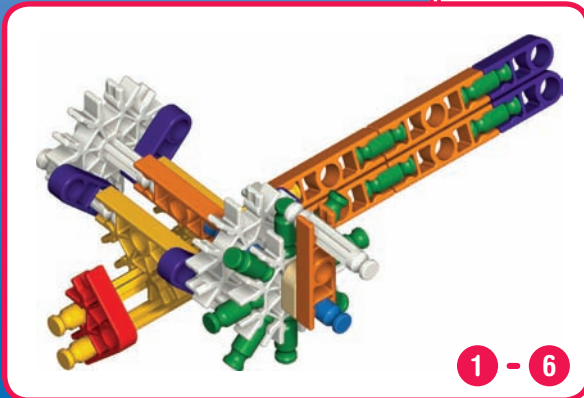
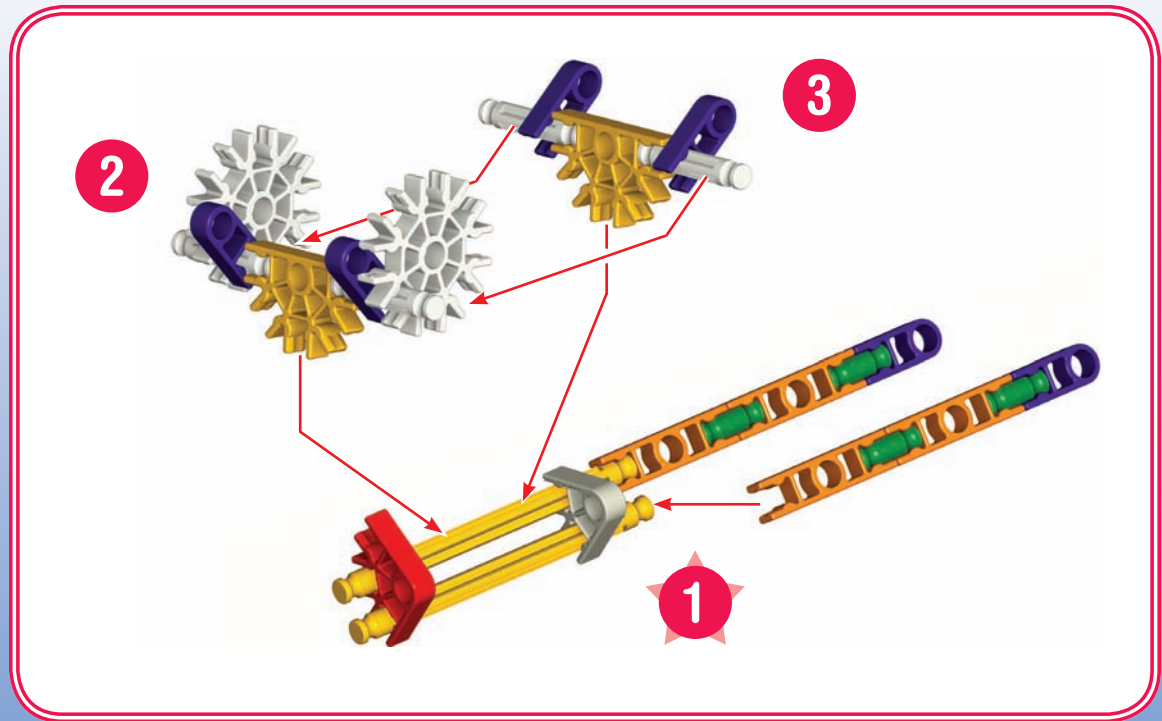


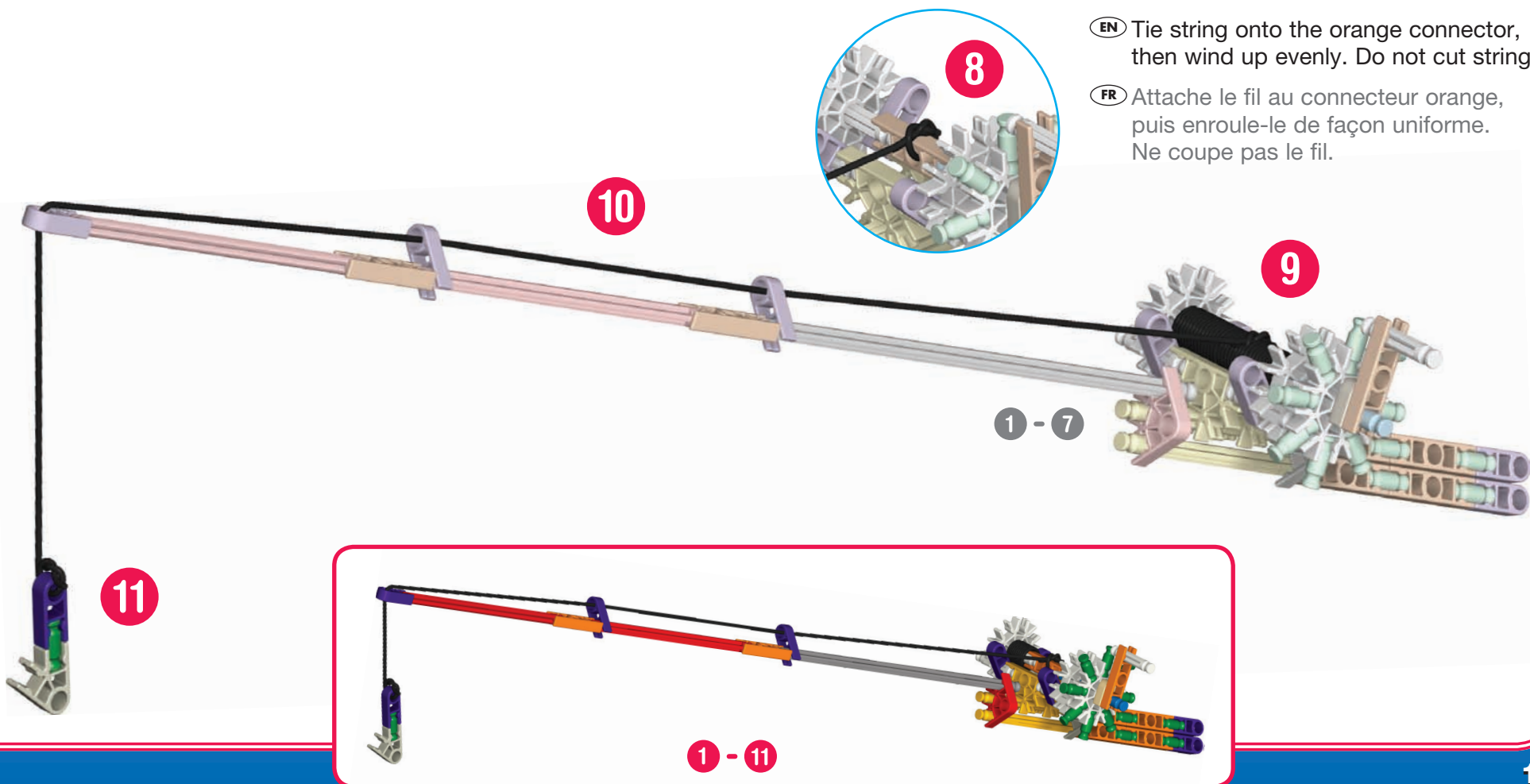
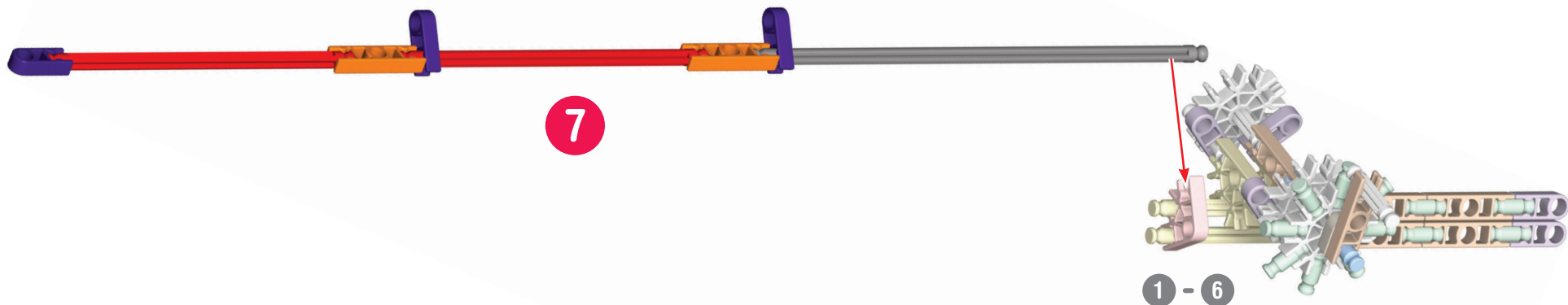
# Fishing Rod Canne à pêche



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- |    |    |   |
|----|----|---|
| 1  | 10 | 8 |
| 2  | 1  | 2 |
| 13 | 1  | 3 |
| 6  |    |   |
| 1  |    |   |
| 2  |    |   |
| 2  |    |   |
| 1  |    |   |

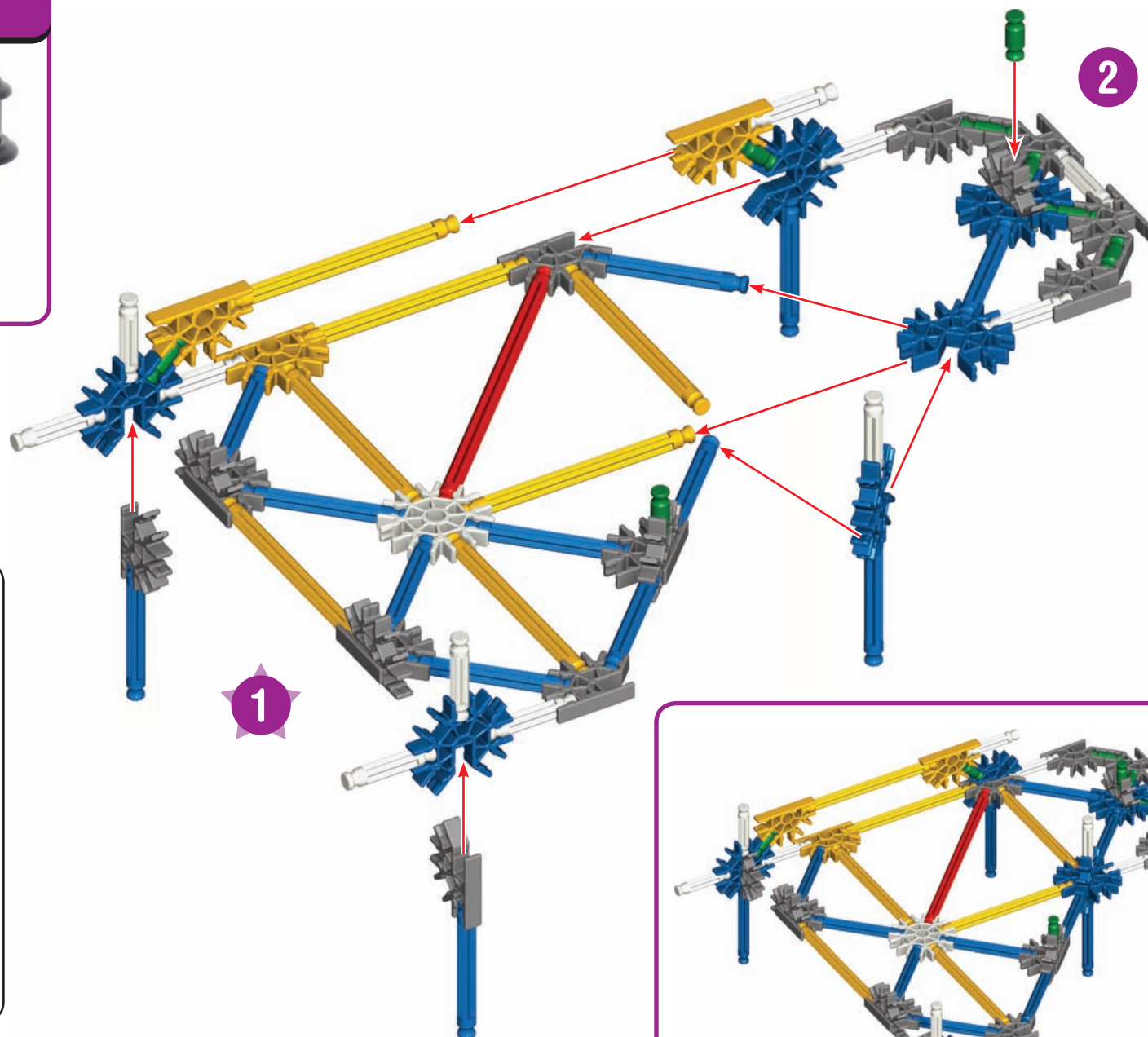




# Grand Piano Piano à queue



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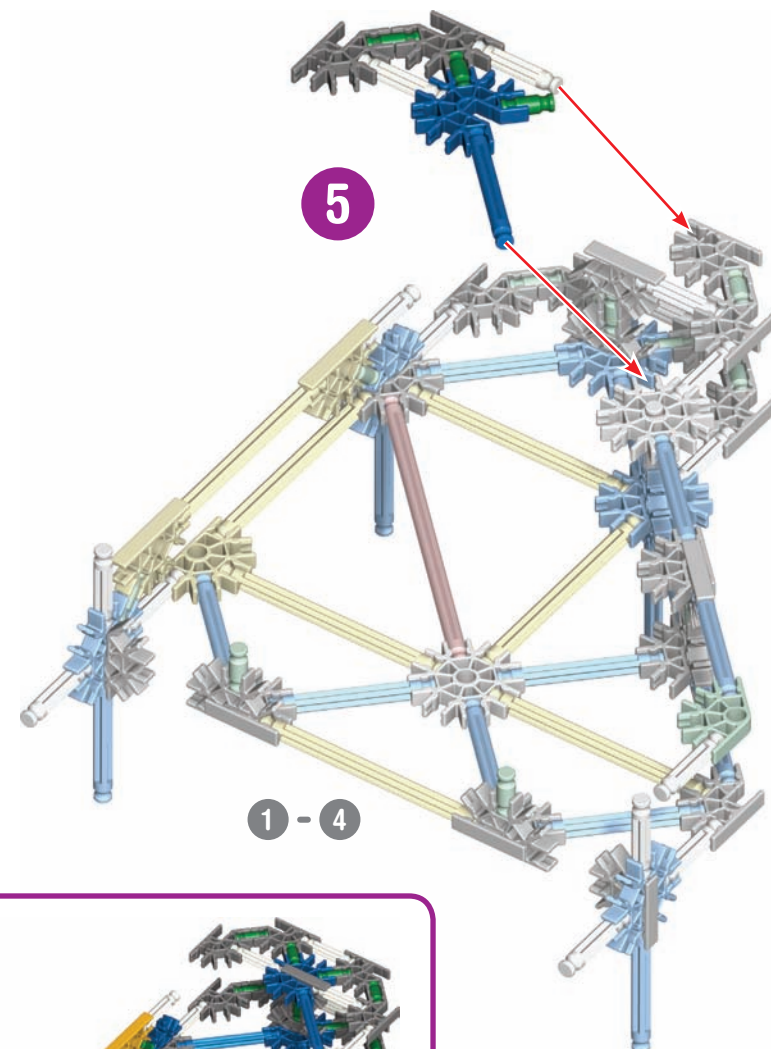
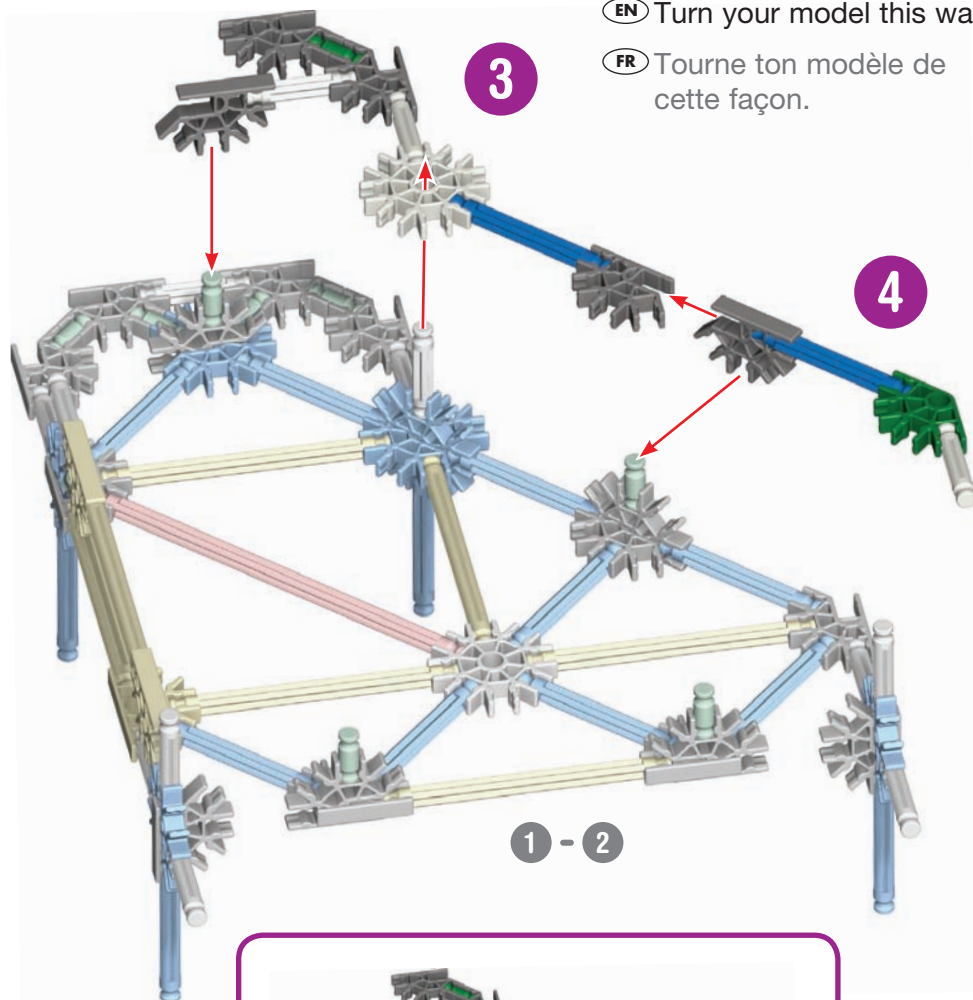
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| 12 |  | 2  |  | 12 |  |
| 21 |  | 26 |  | 8  |  |
| 31 |  |    |  | 5  |  |
| 27 |  |    |  |    |  |
| 20 |  |    |  |    |  |
| 2  |  |    |  |    |  |
| 1  |  |    |  |    |  |

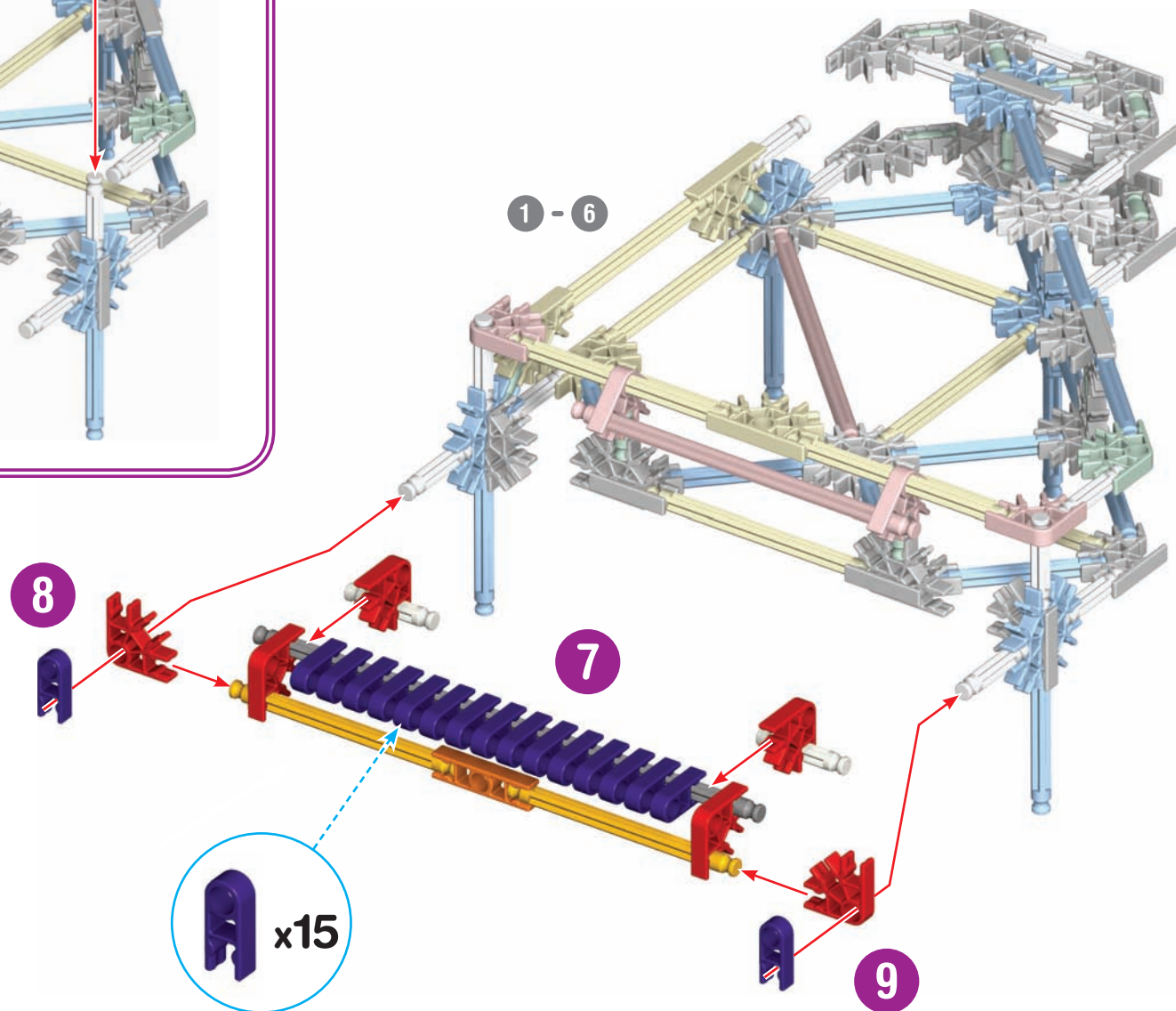
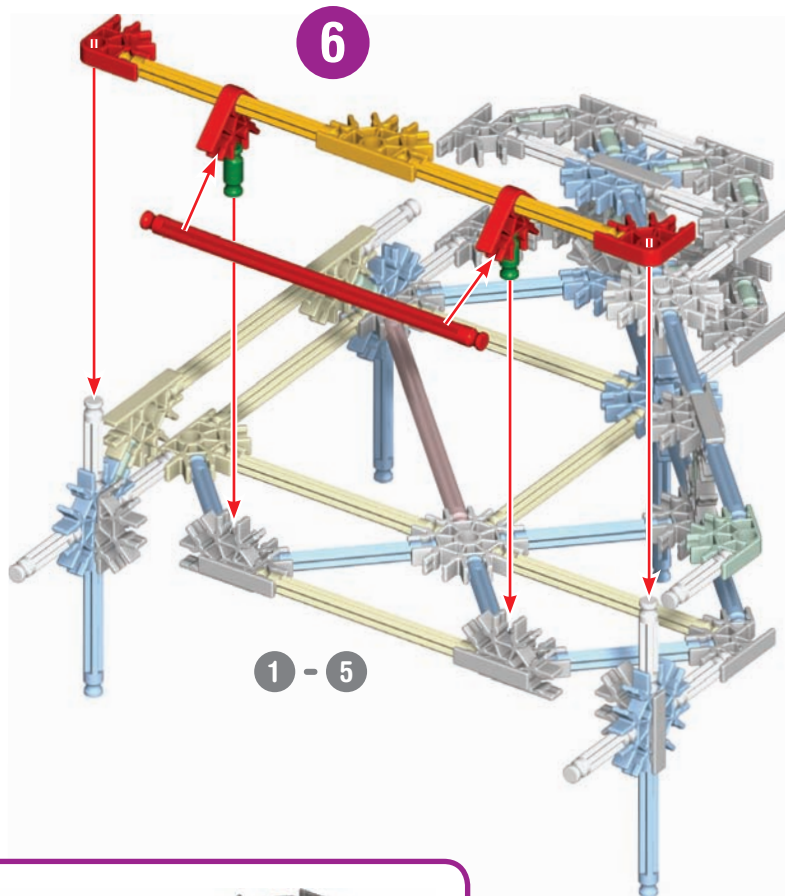


1 - 2

(EN) Turn your model this way.

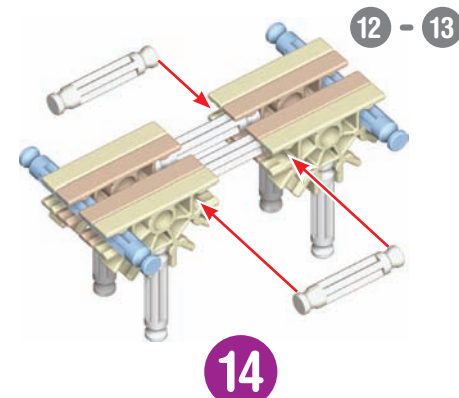
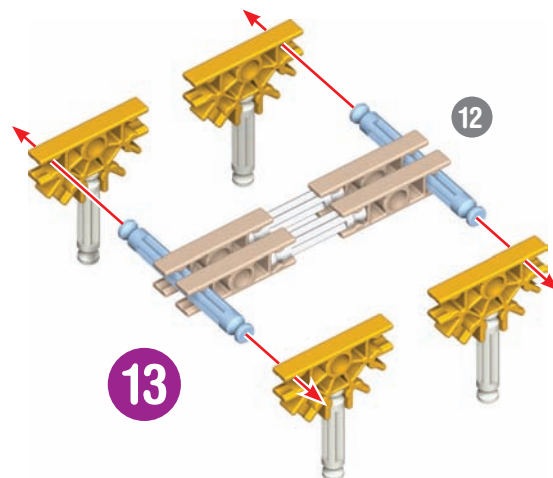
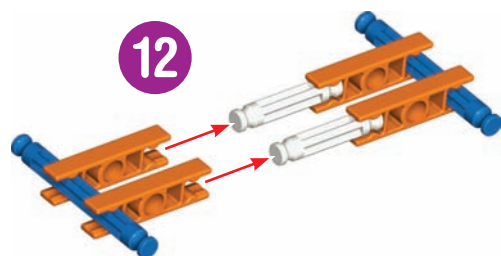
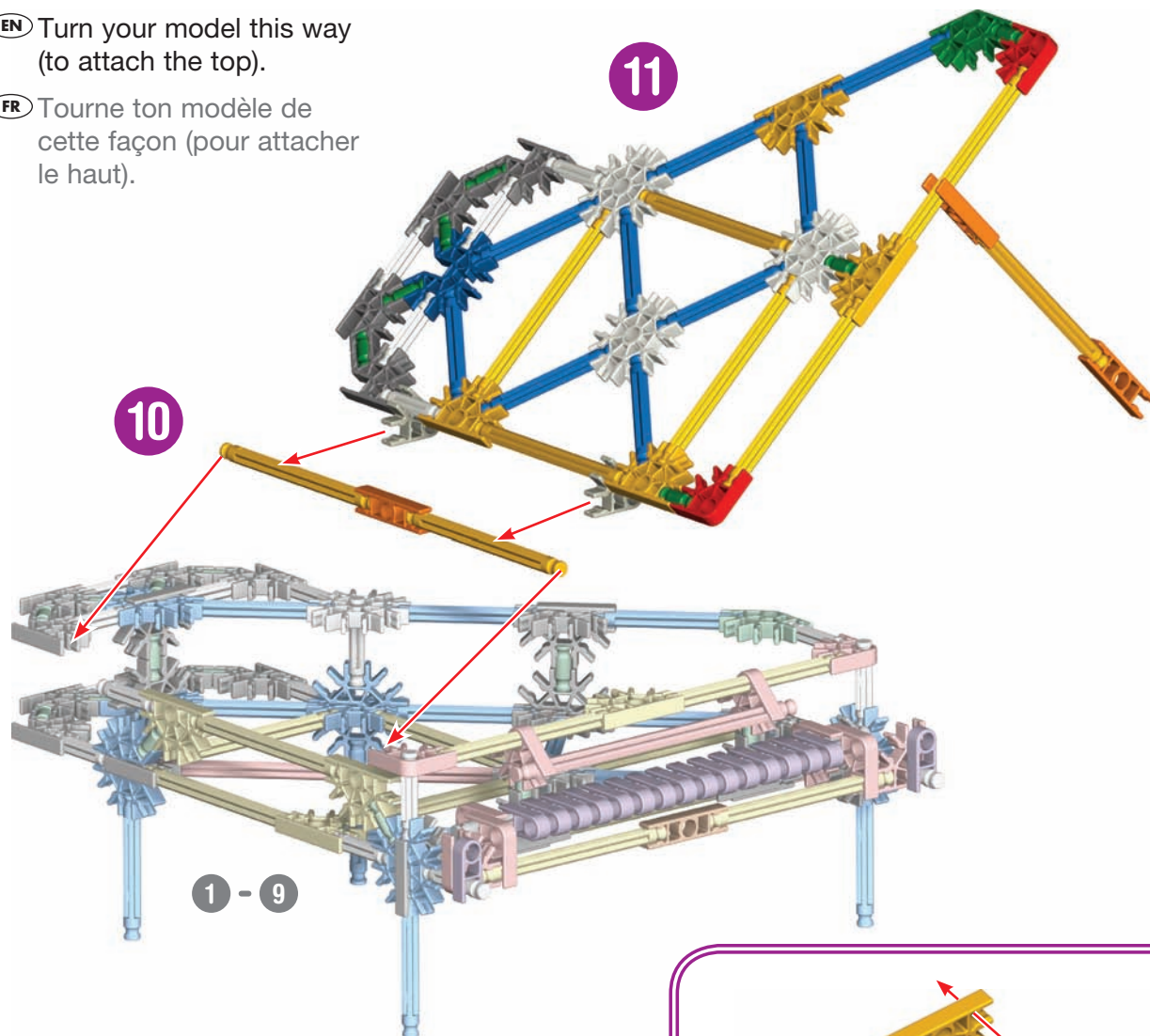
(FR) Tourne ton modèle de cette façon.



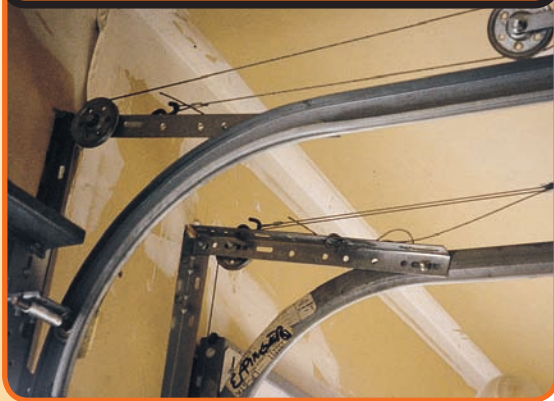


**EN** Turn your model this way  
(to attach the top).

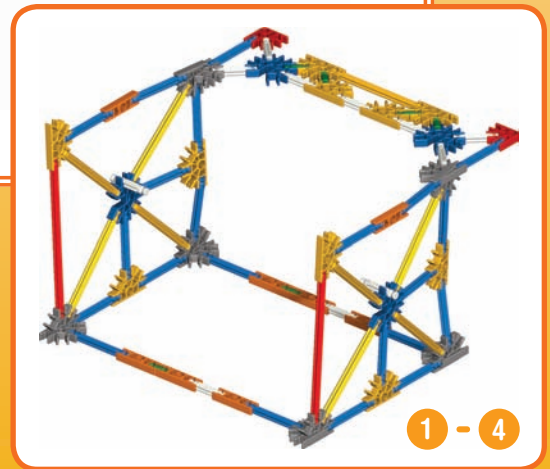
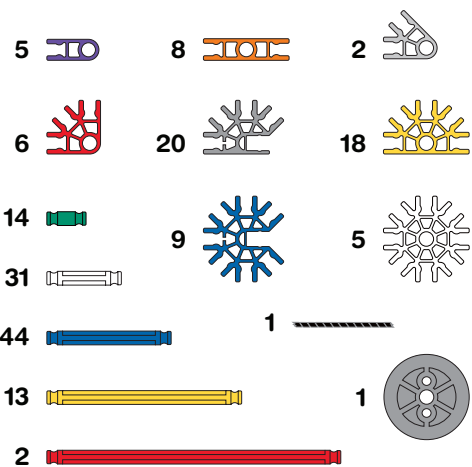
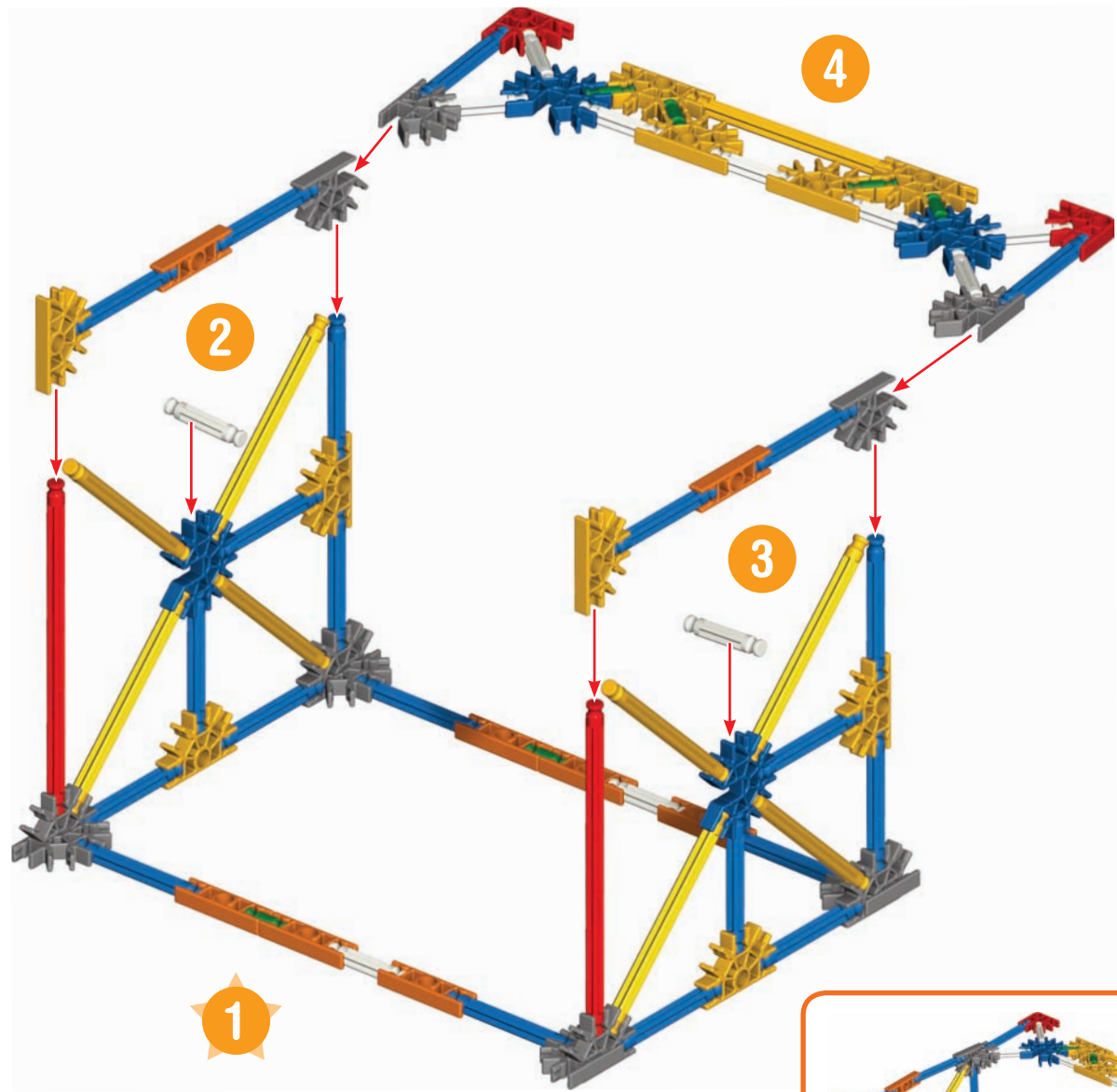
**FR** Tourne ton modèle de  
cette façon (pour attacher  
le haut).

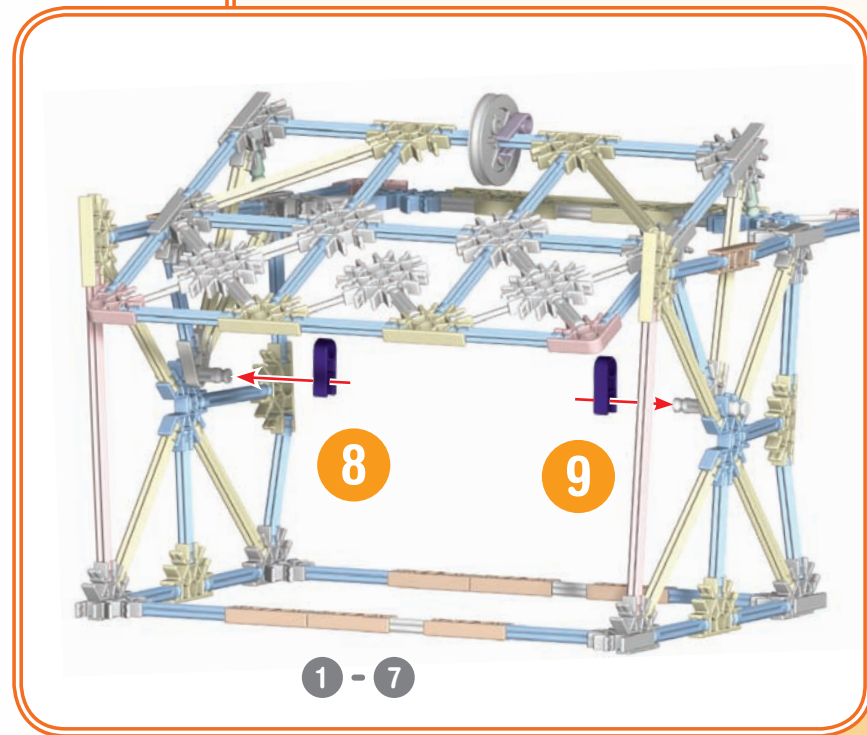
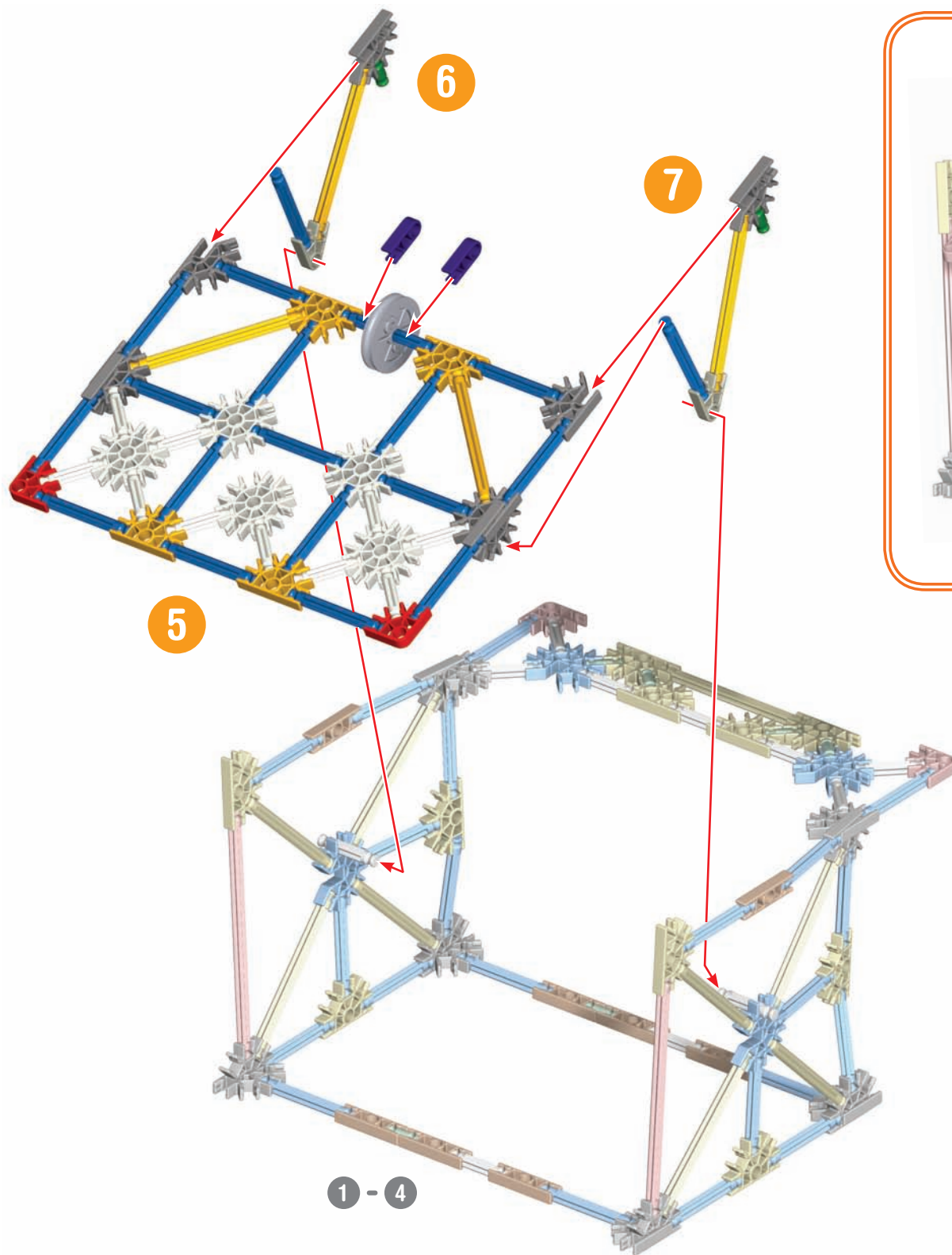


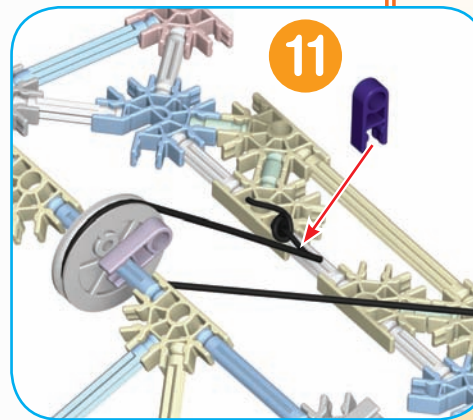
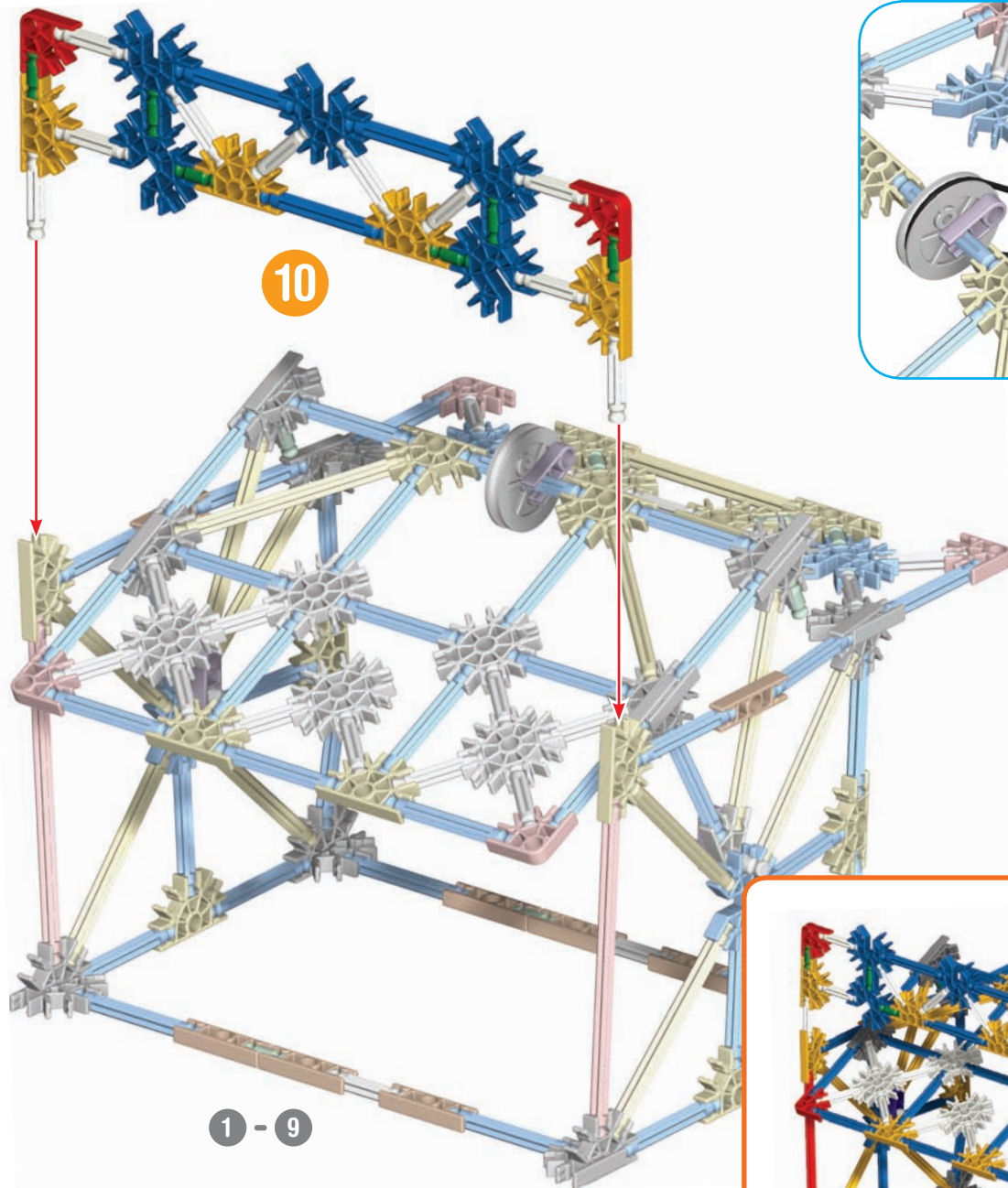
## Garage Door Porte de garage



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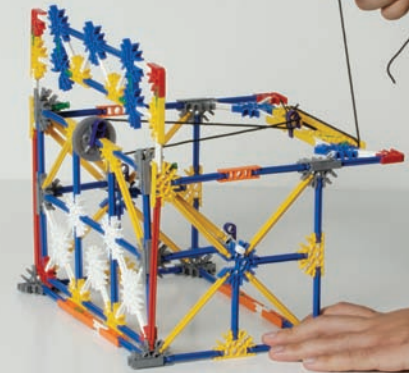






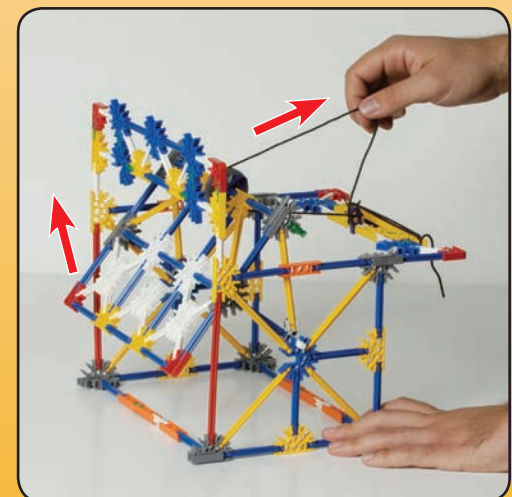
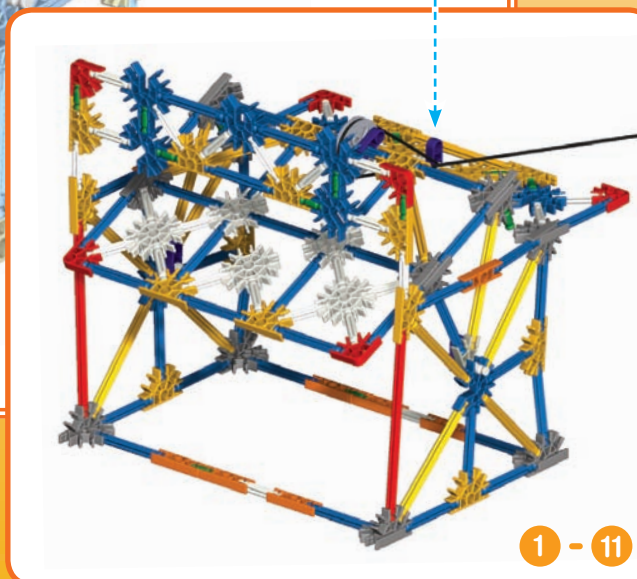
**EN** Do not cut the string.

**FR** Ne coupe pas le fil.



**EN** With the garage door closed, wind the extra string as shown.

**FR** La porte du garage étant fermée, enroule le fil superflu comme indiqué.



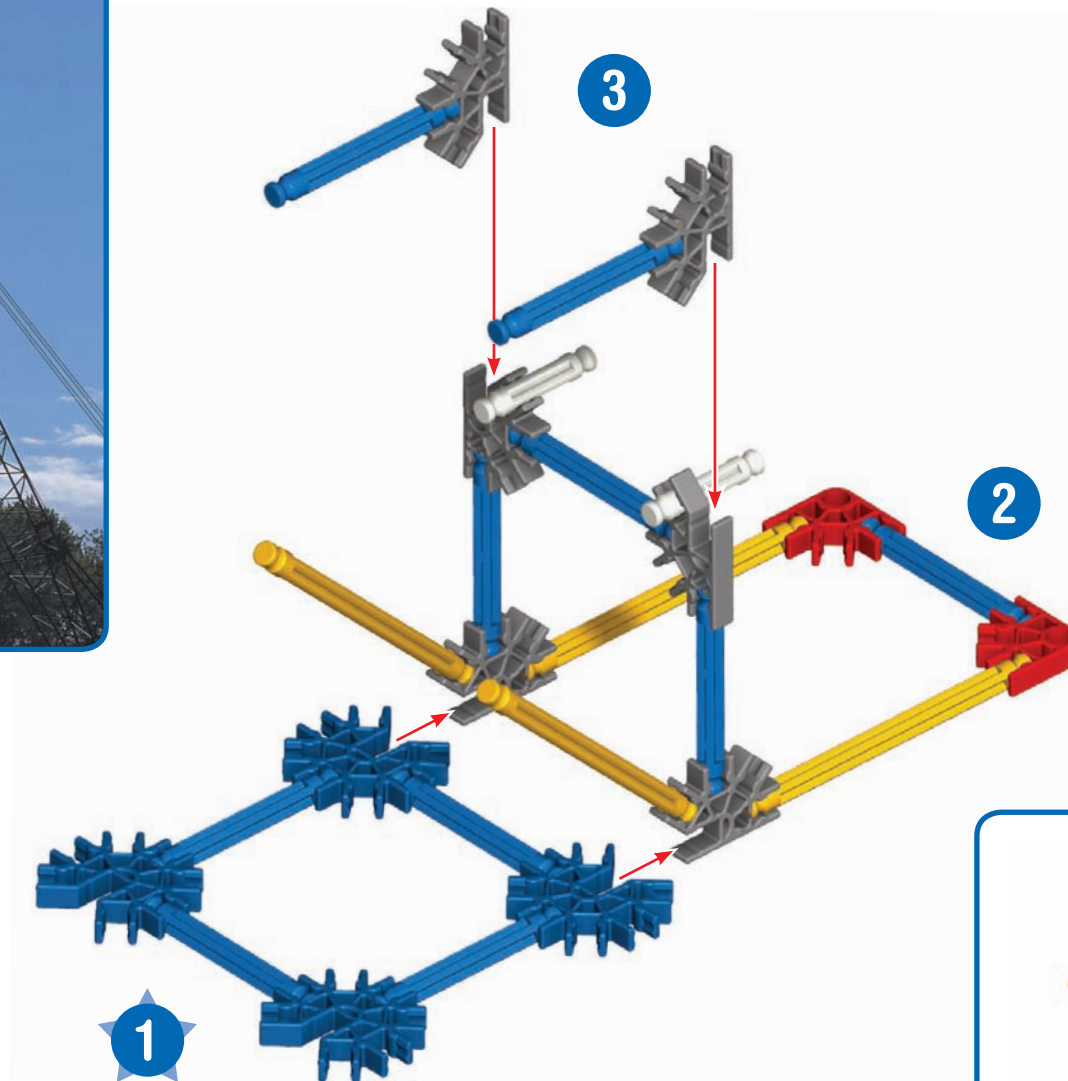
**EN** Pull to open and shut door.

**FR** Tire pour ouvrir et fermer la porte.

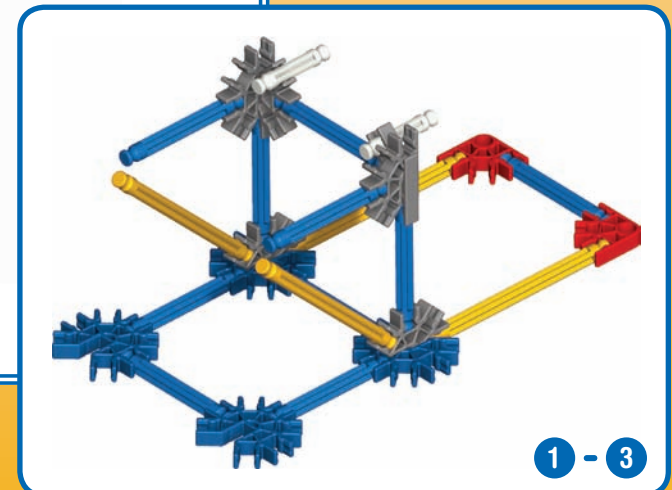
# Crane Grue

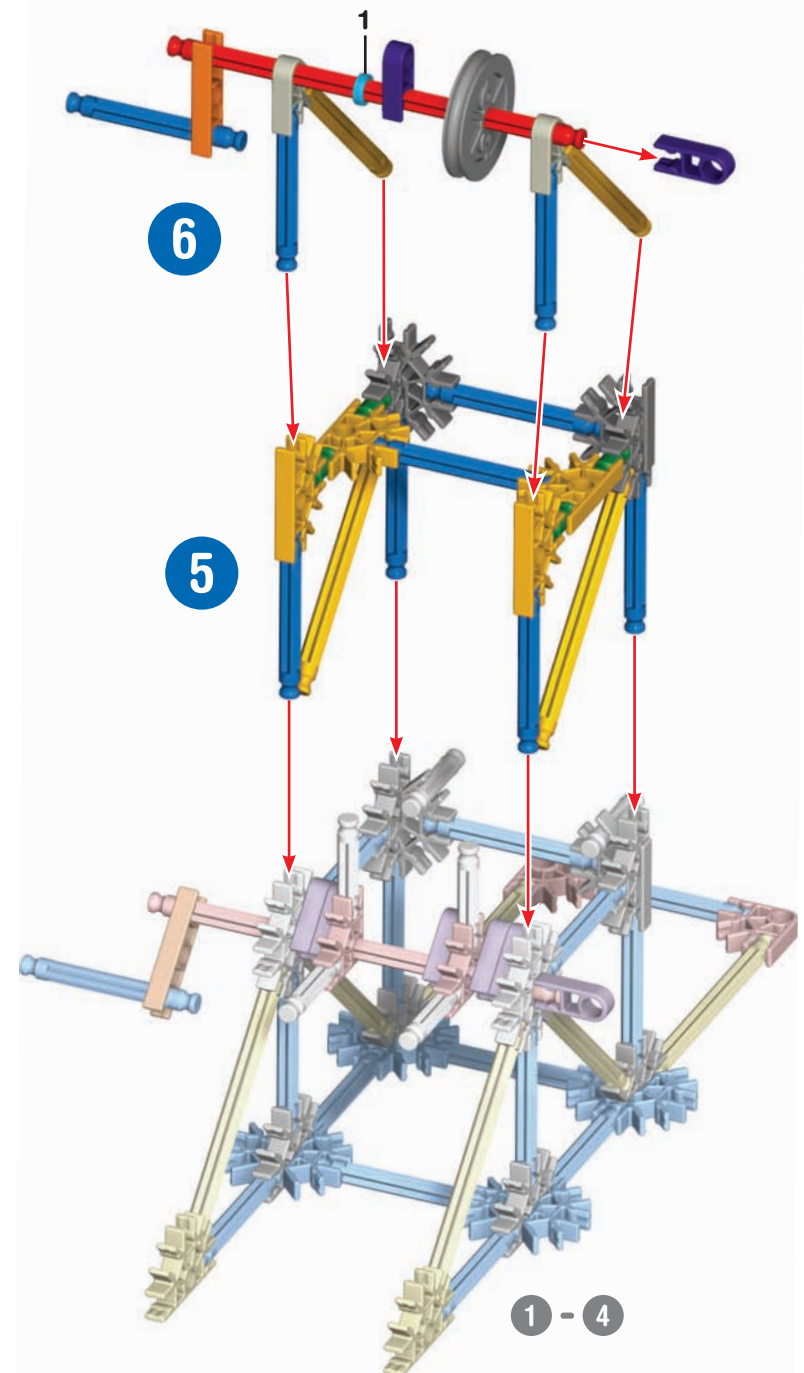
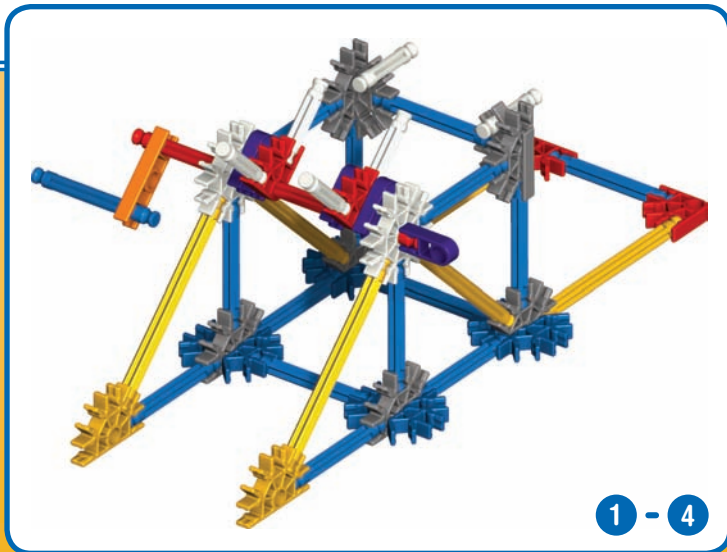
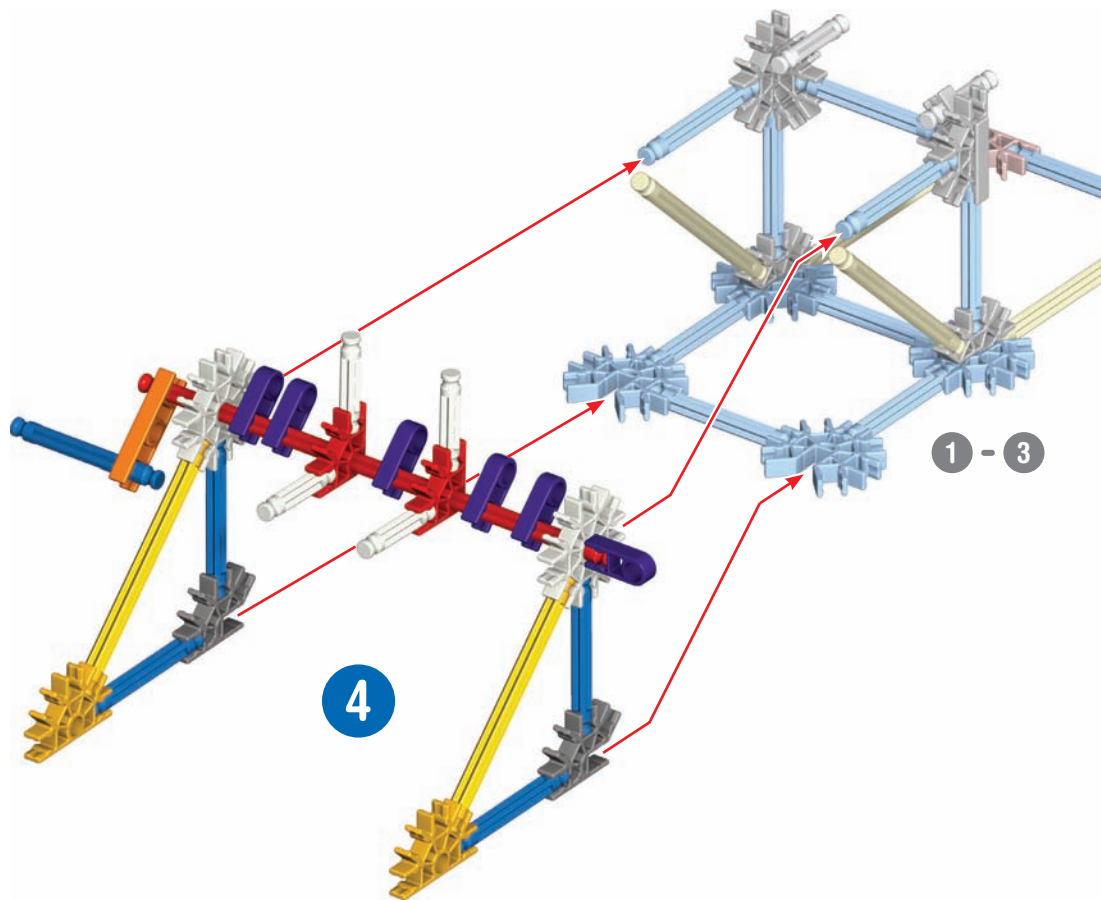


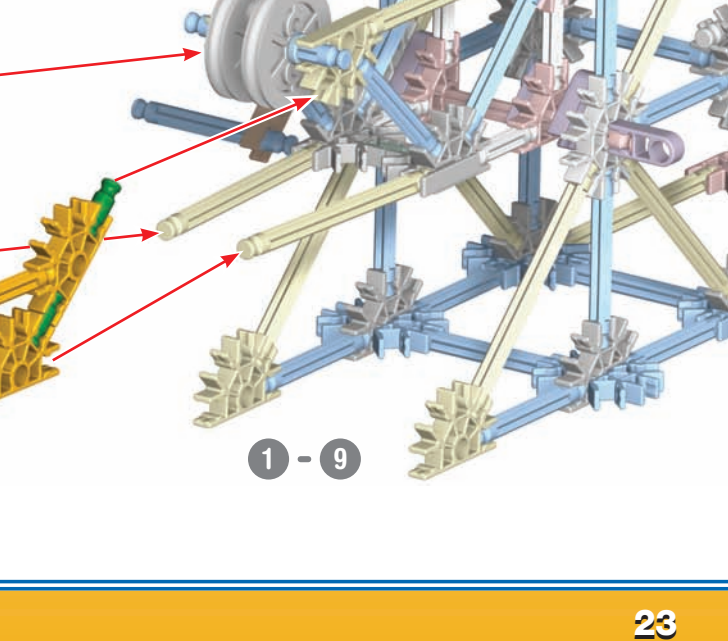
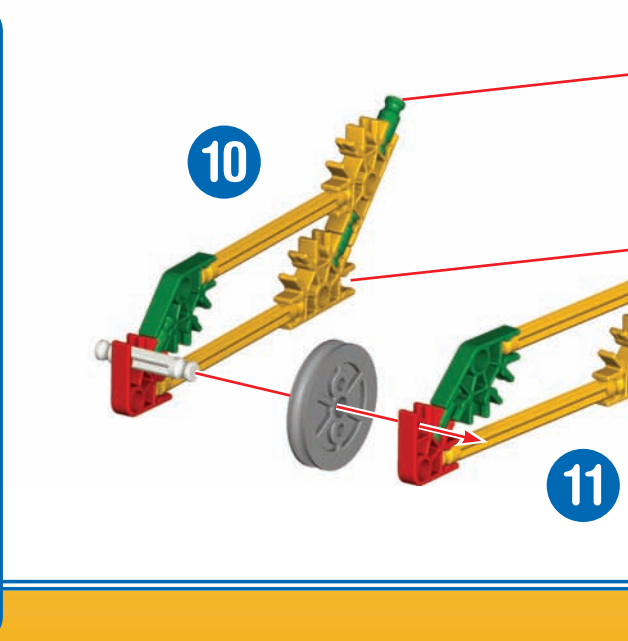
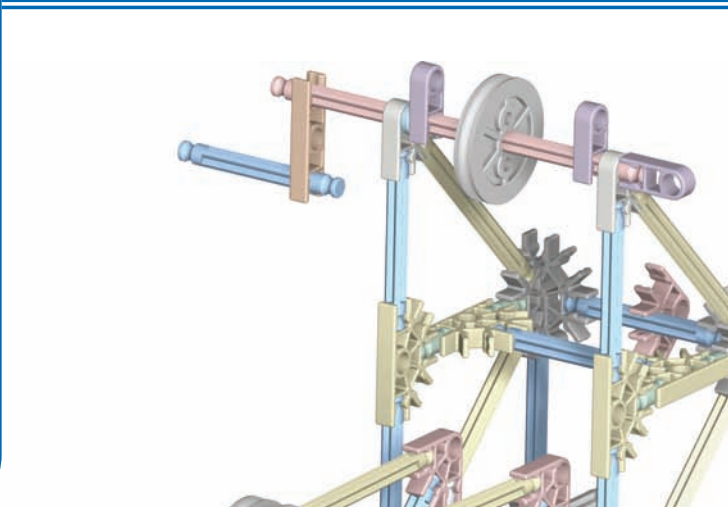
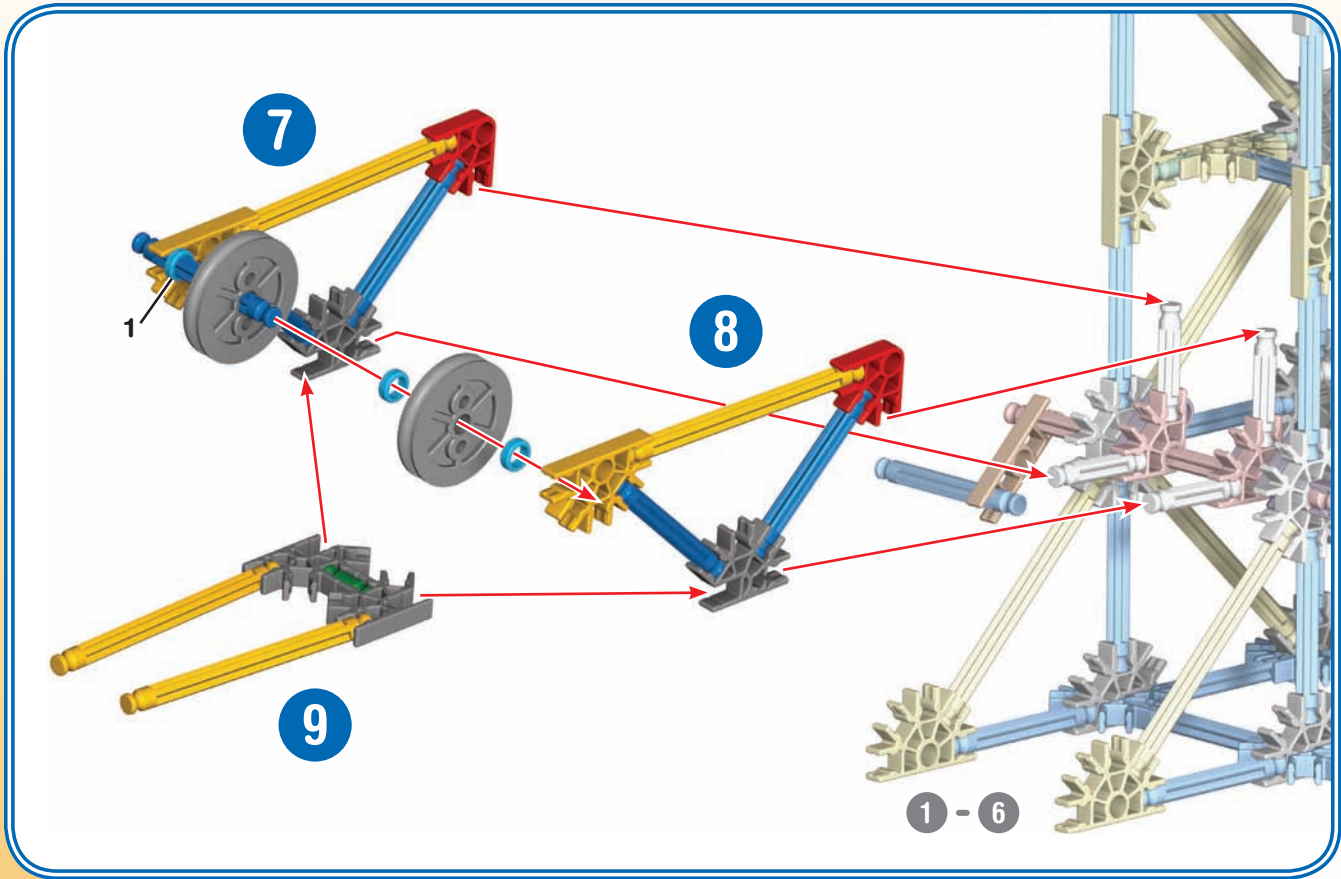
Graphic courtesy of ClickArt® 65,000  
Incredible Image Pak™  
Courtoisie graphique de ClickArt®  
65000 Incredible Image Pak™

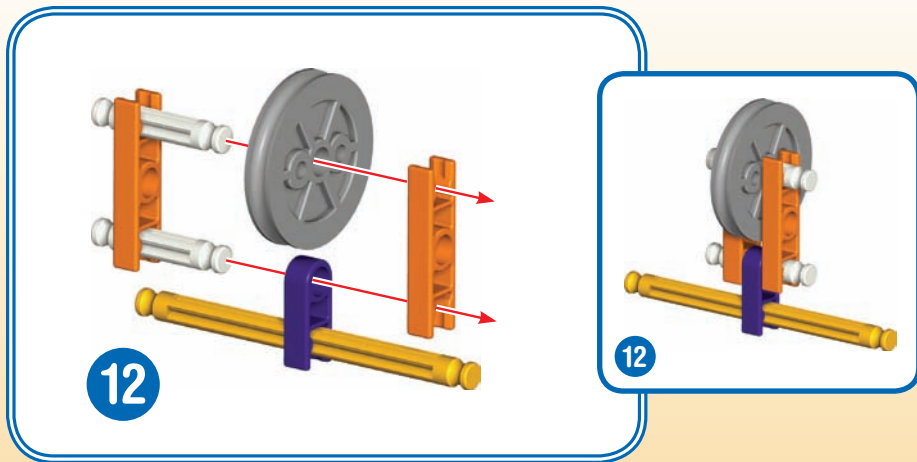


|    |  |    |  |    |  |
|----|--|----|--|----|--|
| 10 |  | 4  |  | 2  |  |
| 9  |  | 2  |  | 12 |  |
| 11 |  | 16 |  | 4  |  |
| 9  |  |    |  | 2  |  |
| 29 |  |    |  |    |  |
| 19 |  |    |  |    |  |
| 2  |  |    |  |    |  |
| 2  |  | 4  |  | 5  |  |

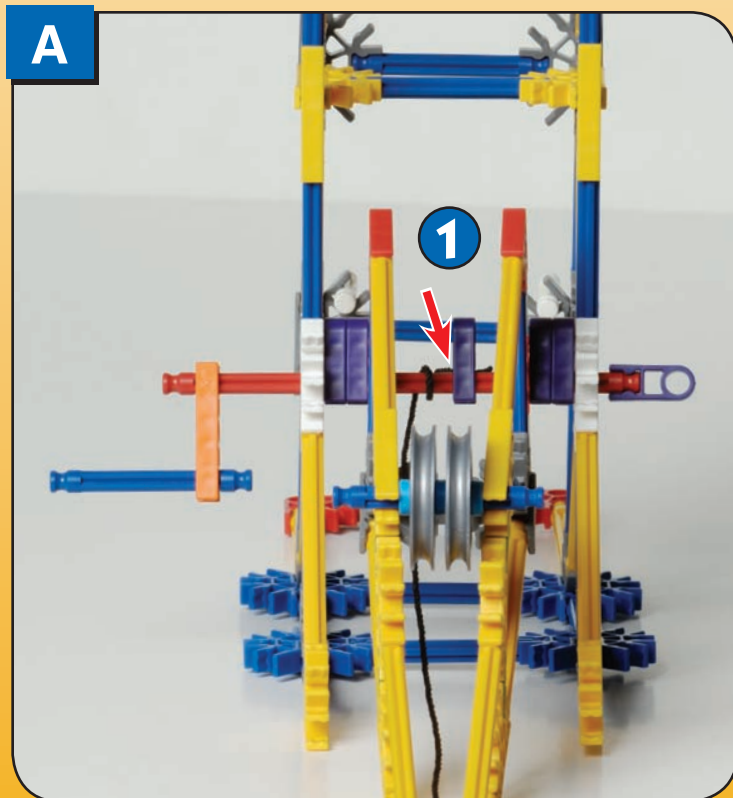




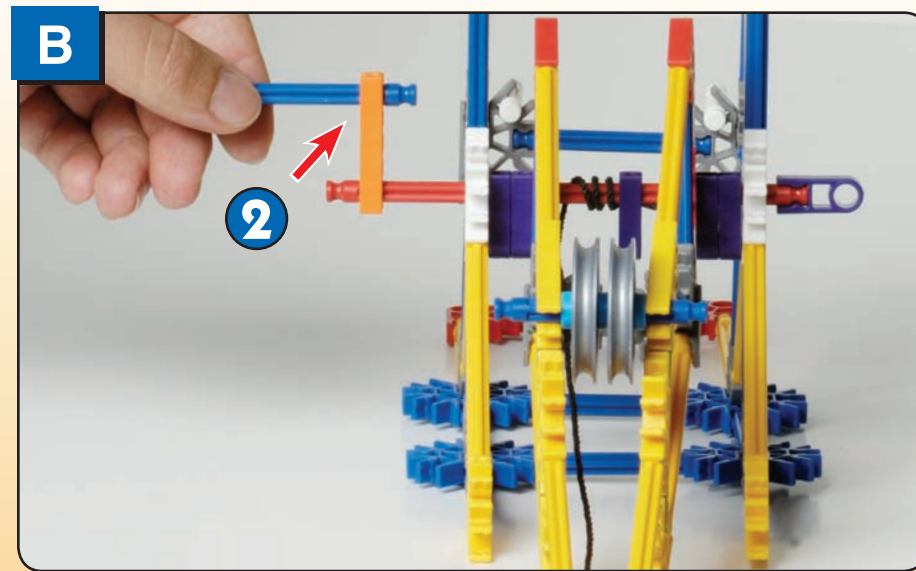




## (EN) **Attaching String 1** (FR) **Attachement du Fil 1**



- 1**
- (EN) Attach one piece of string to the lower red rod with a purple connector.
- (FR) Attache le fil à la longue tige rouge avec un connecteur pourpre.



- 2**
- (EN) Use the crank to wind the string.
- (FR) Utilise la manivelle pour enrouler le fil.



- 3**
- (EN) The string goes inside the crane boom and over the pulley at the end.
- (FR) Le fil passe à l'intérieur de la flèche de la grue et au-dessus de la poulie à l'extrémité.

- (EN) Do not cut the string.
- (FR) Ne coupe pas le fil.

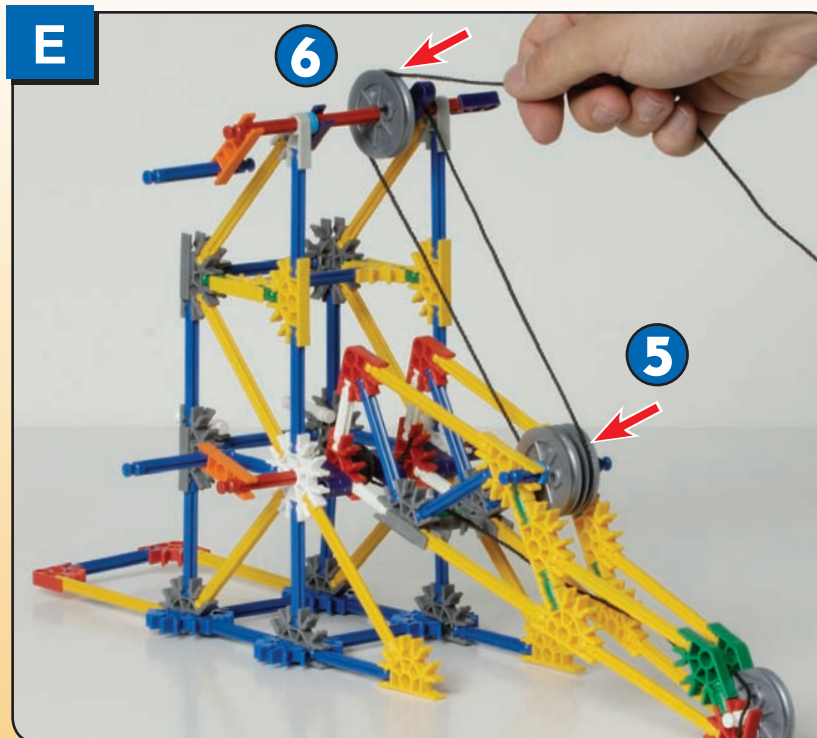
## EN **Attaching String 2** FR **Attachement du Fil 2**



4

EN Attach the second string to the upper red rod with a purple connector.

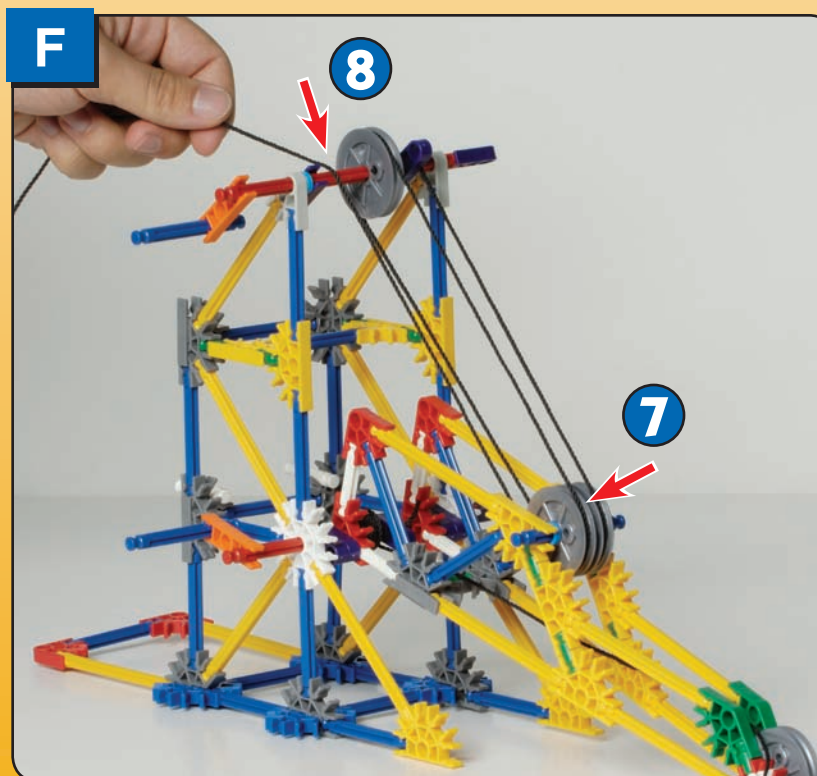
FR Attache le deuxième fil 2 à la longue tige rouge avec un connecteur pourpre.



5 - 6

EN Loop the string around the right lower pulley, then over the upper pulley at the top.

FR Fais passer le fil en boucle au-dessus de la première poulie inférieure, puis au-dessus de la poulie supérieure.



7 - 8

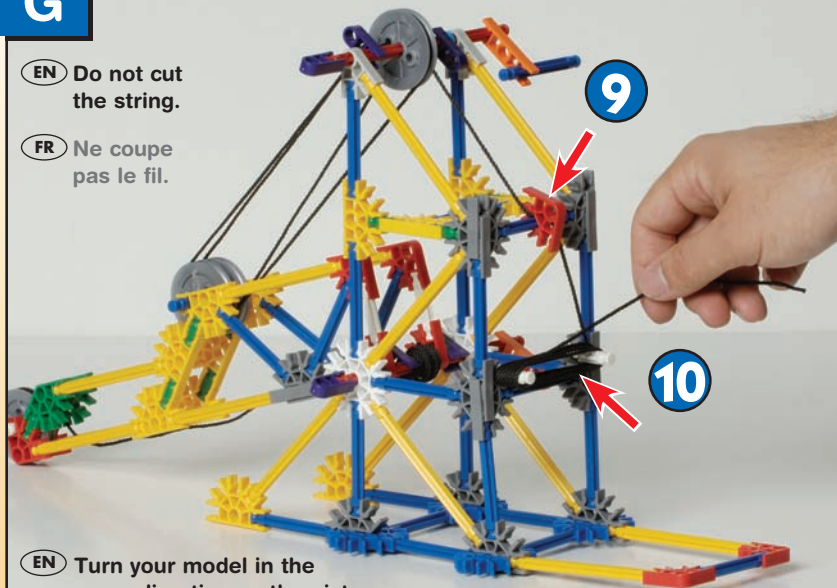
EN Loop the string around the left lower pulley, then over the upper red rod.

FR Fais passer le fil en boucle au-dessus de la deuxième poulie inférieure, puis au-dessus de la longue tige rouge.

**G**

(EN) Do not cut the string.

(FR) Ne coupe pas le fil.



(EN) Turn your model in the same direction as the pictures.

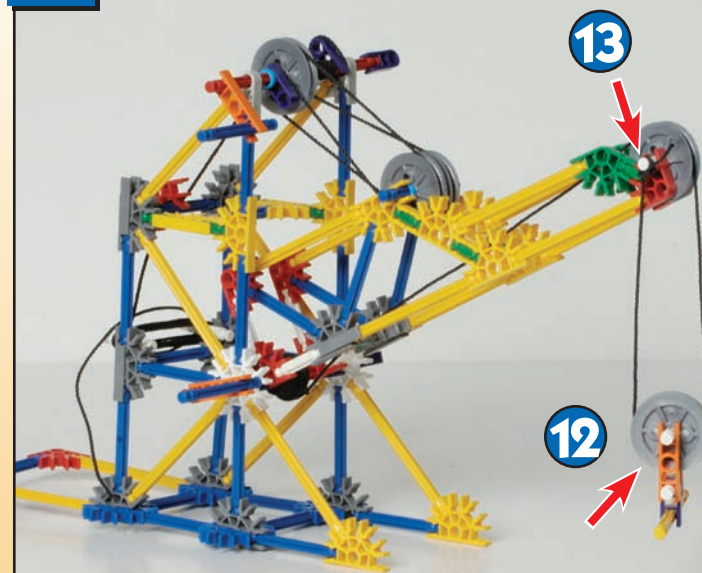
(FR) Tourne ton modèle dans le même sens que les images.

**9 - 10**

(EN) Attach the string to the blue rod with a red connector, then wind the extra string as shown.

(FR) Attache le fil à la tige bleue avec un connecteur rouge, puis enroule le fil superflu comme indiqué.

**I**

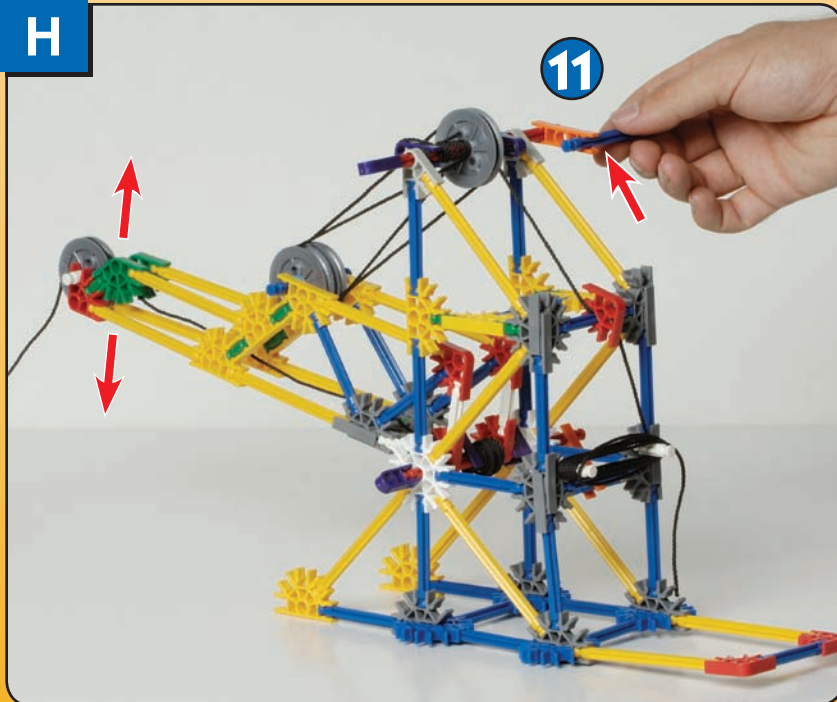


**12 - 13**

(EN) Loop the first string around the separate pulley, then tie it to the white rod.

(FR) Fais passer le fil 1 en boucle autour de la poulie, puis attache-le à la tige blanche.

**H**



**11**

(EN) Use the crank to raise the boom.

(FR) Utilise la manivelle pour élever la flèche.

(EN) Use a book to hold the model in place.

(FR) Utilise un livre pour maintenir le modèle à plat.



## Wrench and Nut Clé & écrou

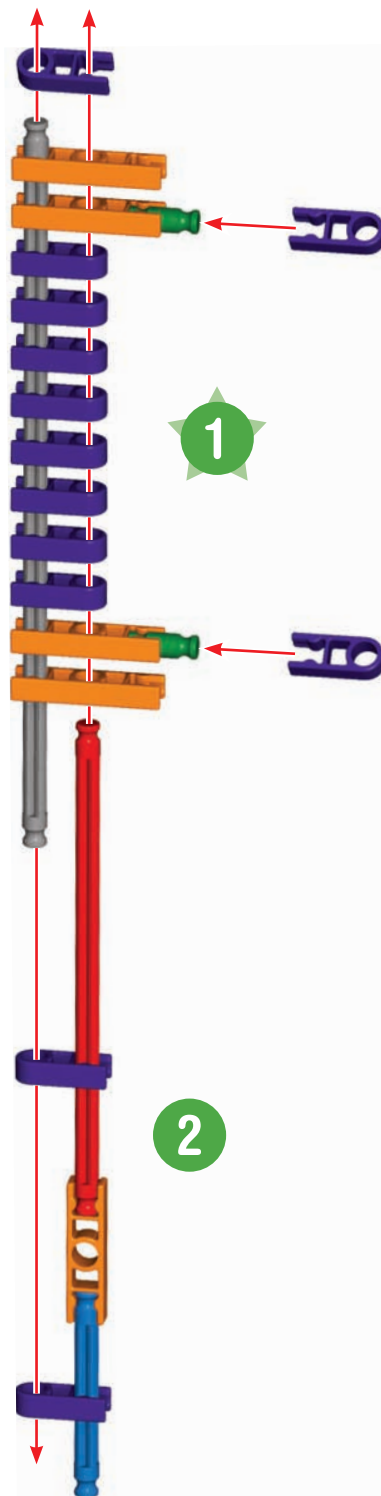


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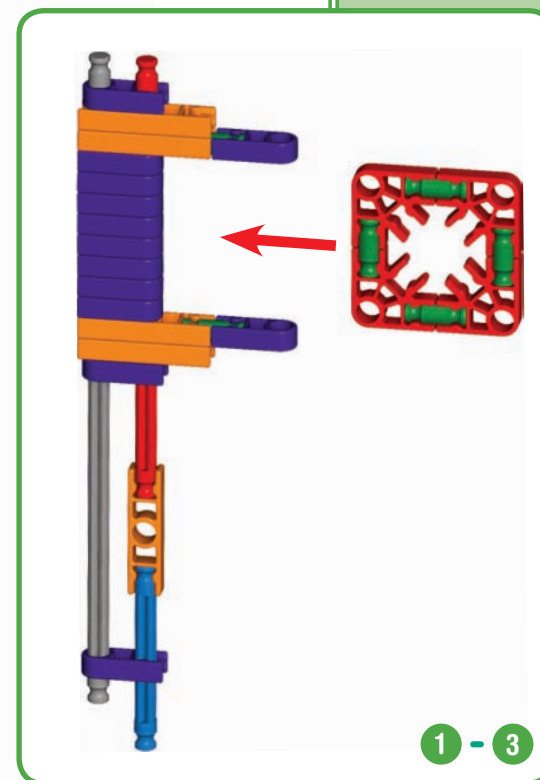
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|    |  |   |  |
|----|--|---|--|
| 13 |  | 6 |  |
| 5  |  | 1 |  |
| 4  |  | 1 |  |
|    |  | 1 |  |



3



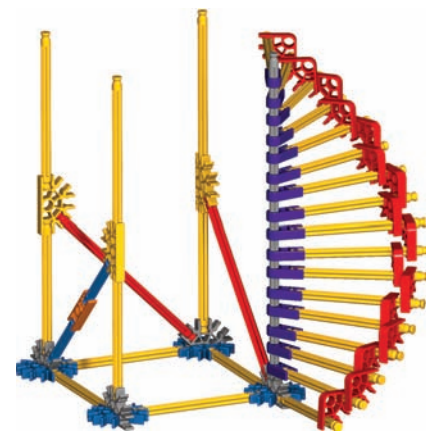
1 - 3

# Spiral Staircase Escalier en colimaçon

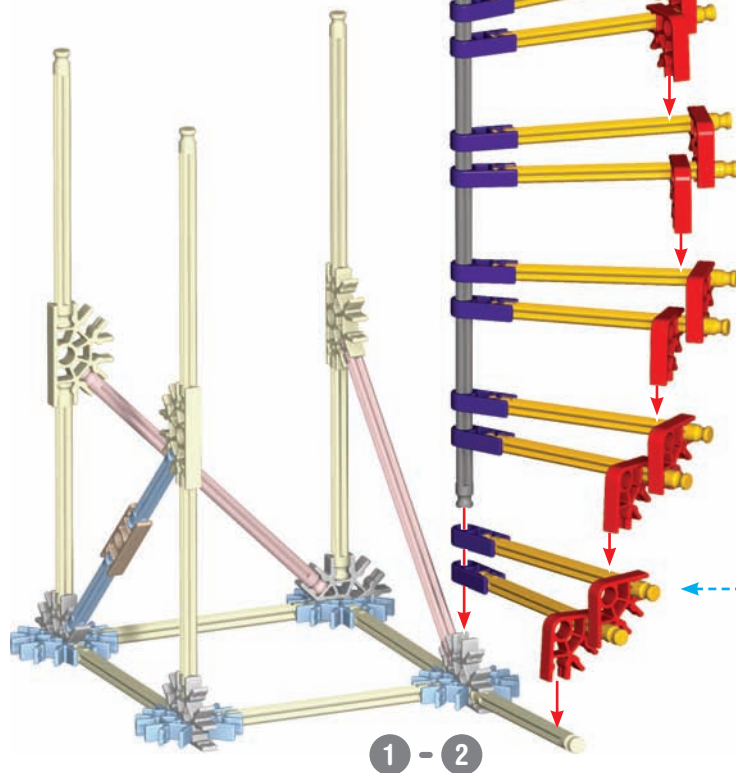
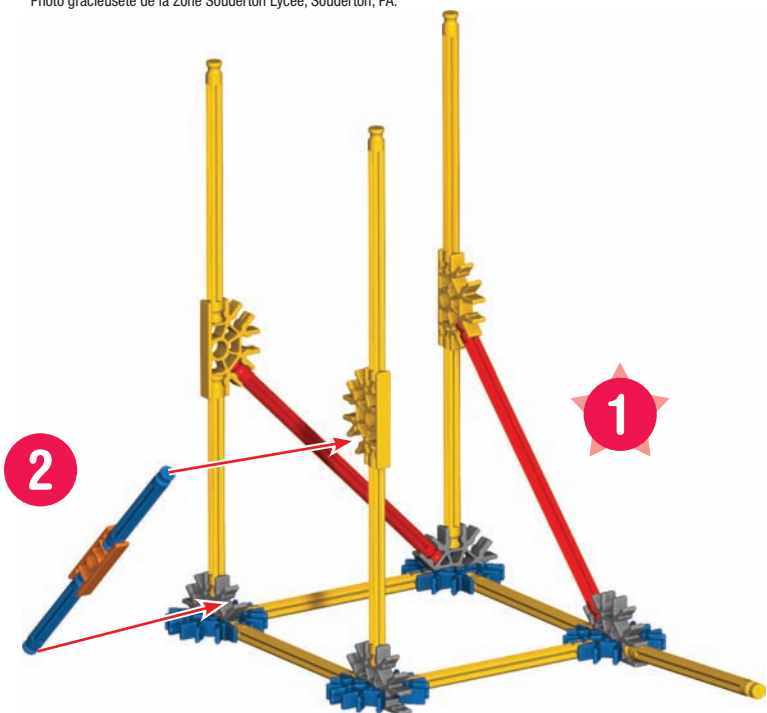


Photo courtesy of Souderton Area High School, Souderton, PA  
Photo gracieuseté de la Zone Souderton Lycée, Souderton, PA.

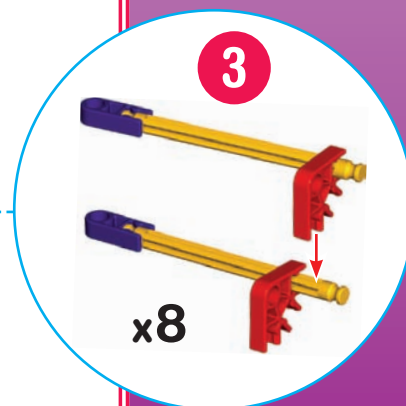
- |    |  |    |  |   |  |
|----|--|----|--|---|--|
| 16 |  | 1  |  | 8 |  |
| 21 |  | 2  |  | 4 |  |
| 12 |  | 12 |  | 3 |  |
| 11 |  |    |  |   |  |
| 2  |  |    |  |   |  |
| 31 |  |    |  |   |  |
| 2  |  |    |  |   |  |
| 1  |  |    |  |   |  |



1 - 4

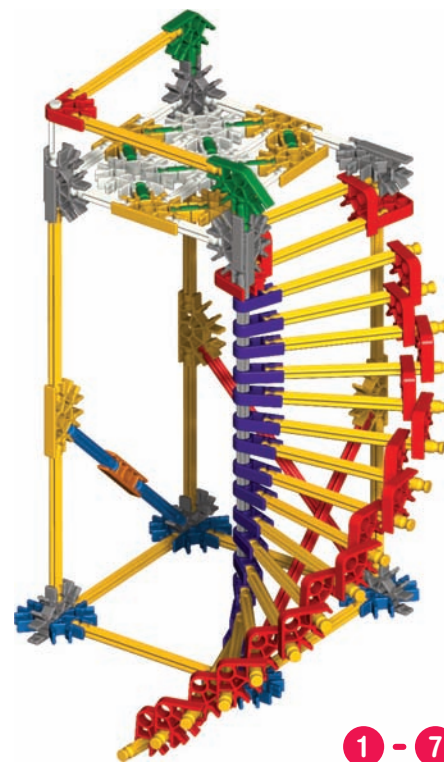
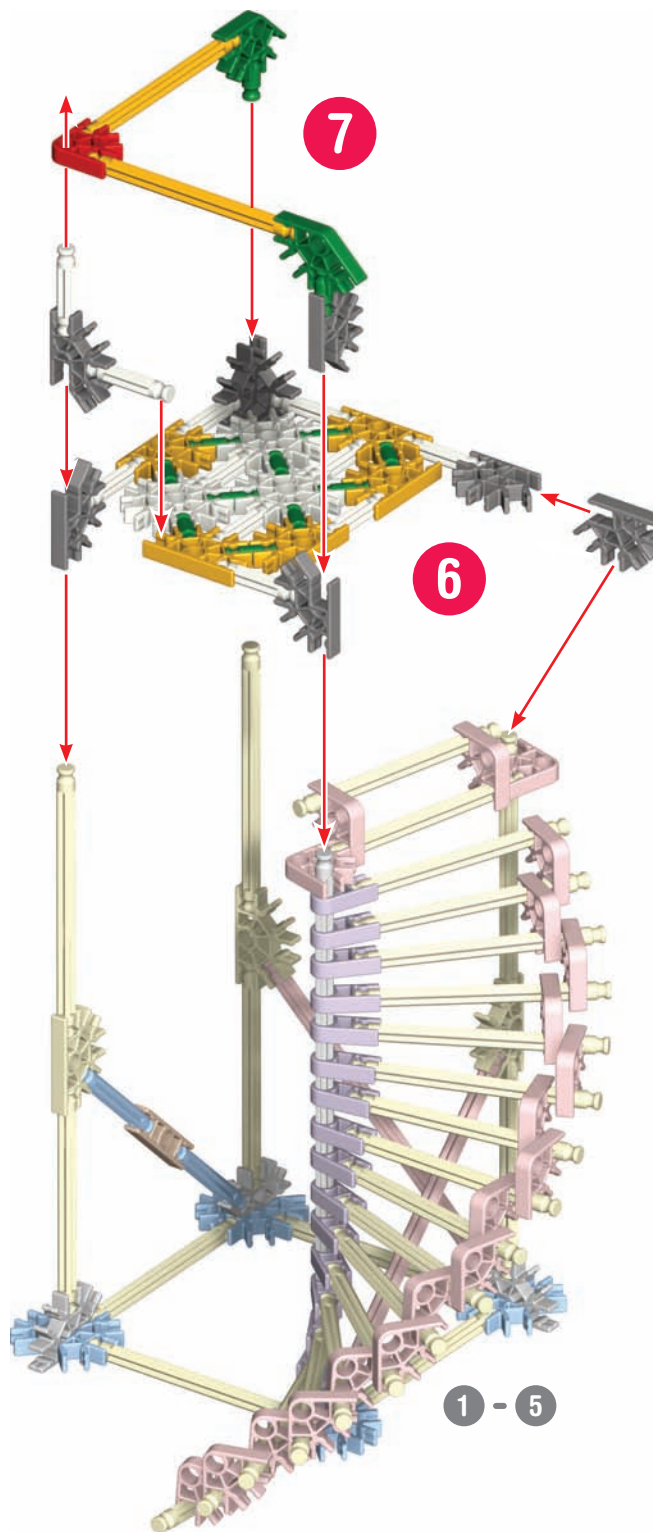
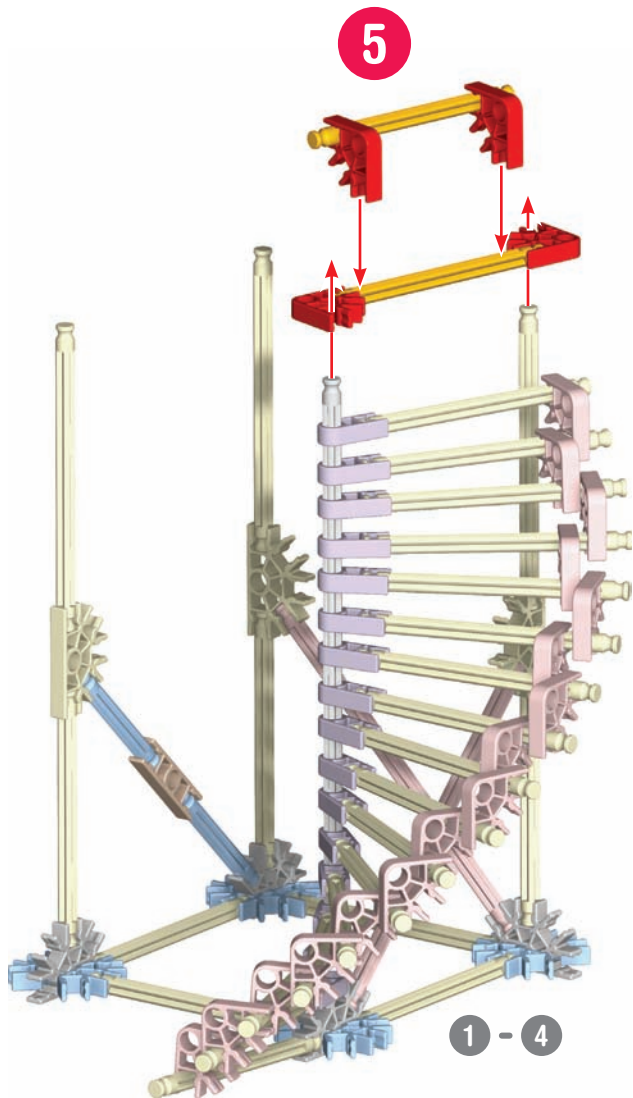


4



3

x8

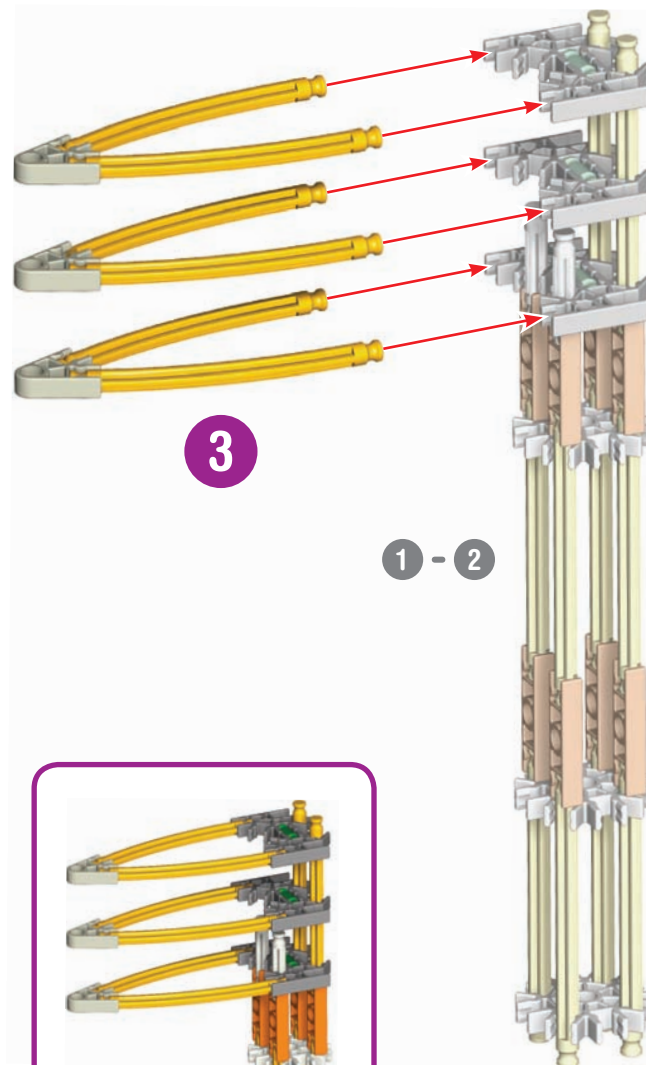
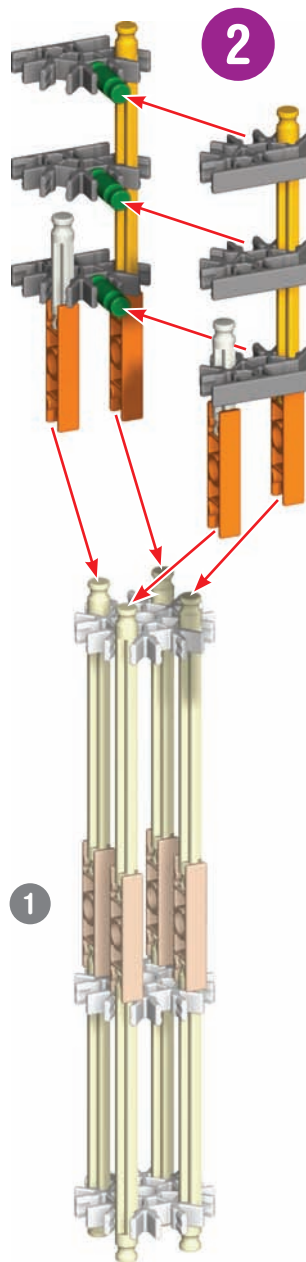
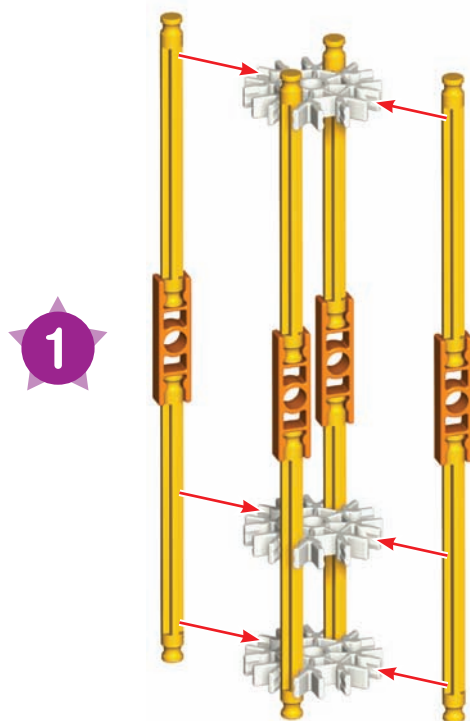


# Axe Hache



- |    |  |   |  |
|----|--|---|--|
| 8  |  | 6 |  |
| 3  |  | 3 |  |
| 3  |  |   |  |
| 2  |  |   |  |
| 16 |  |   |  |

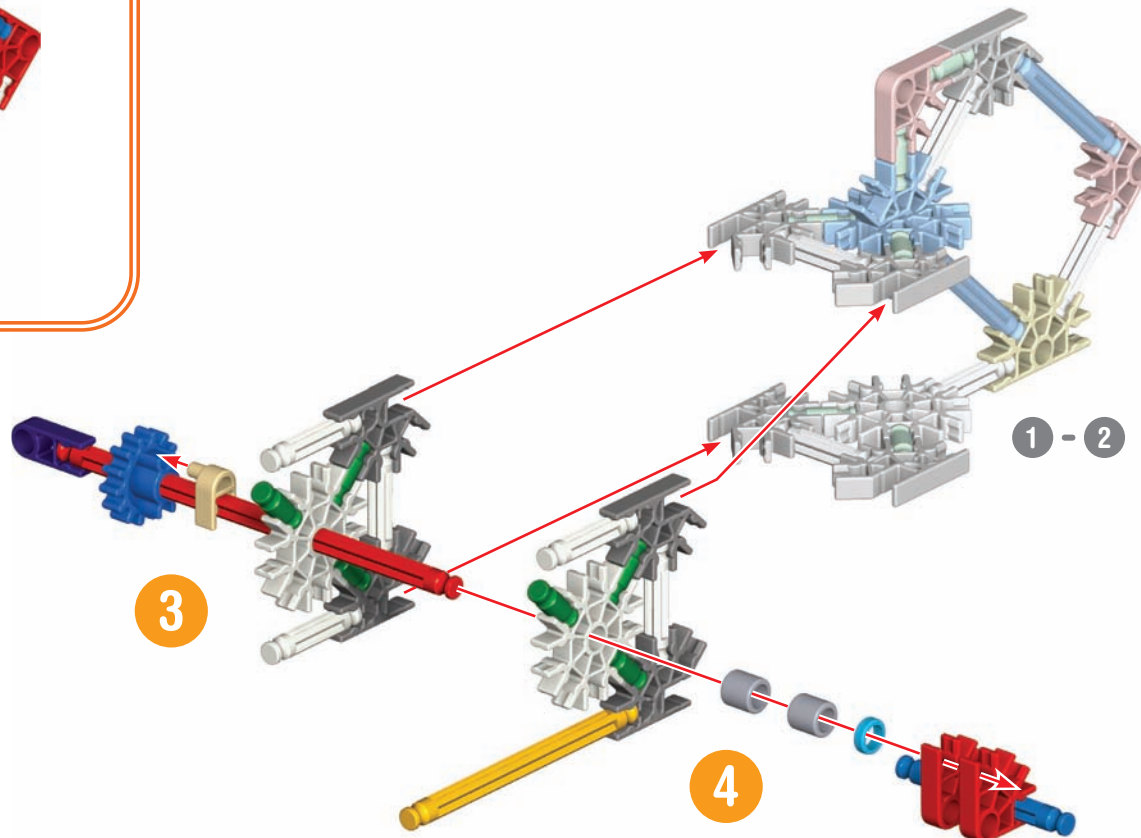
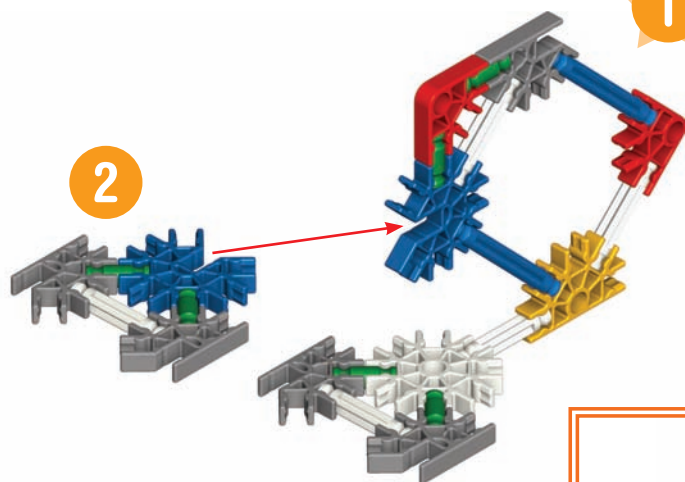
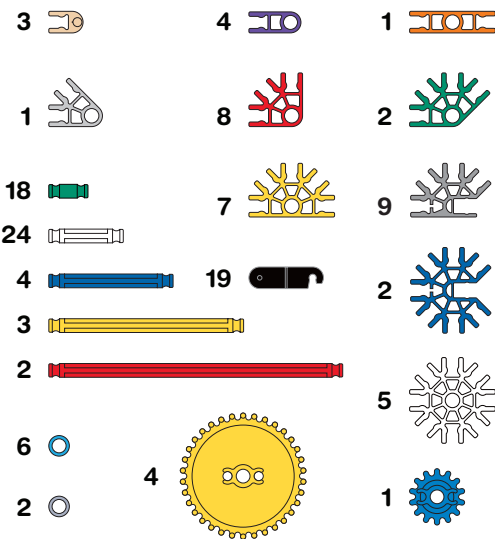
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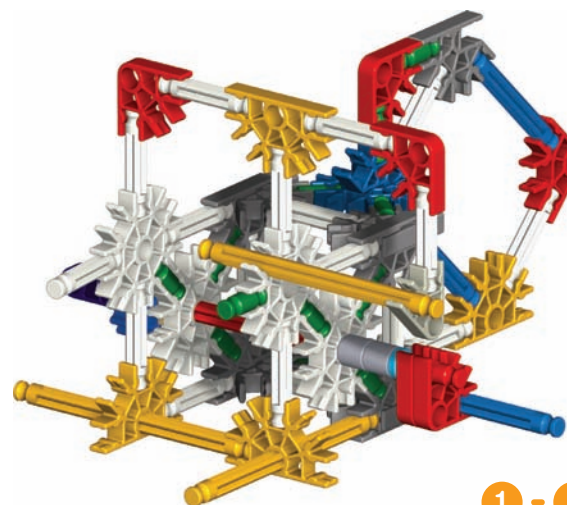
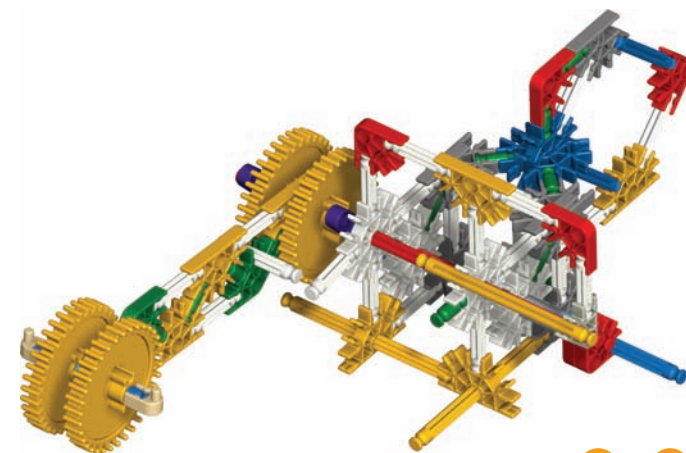
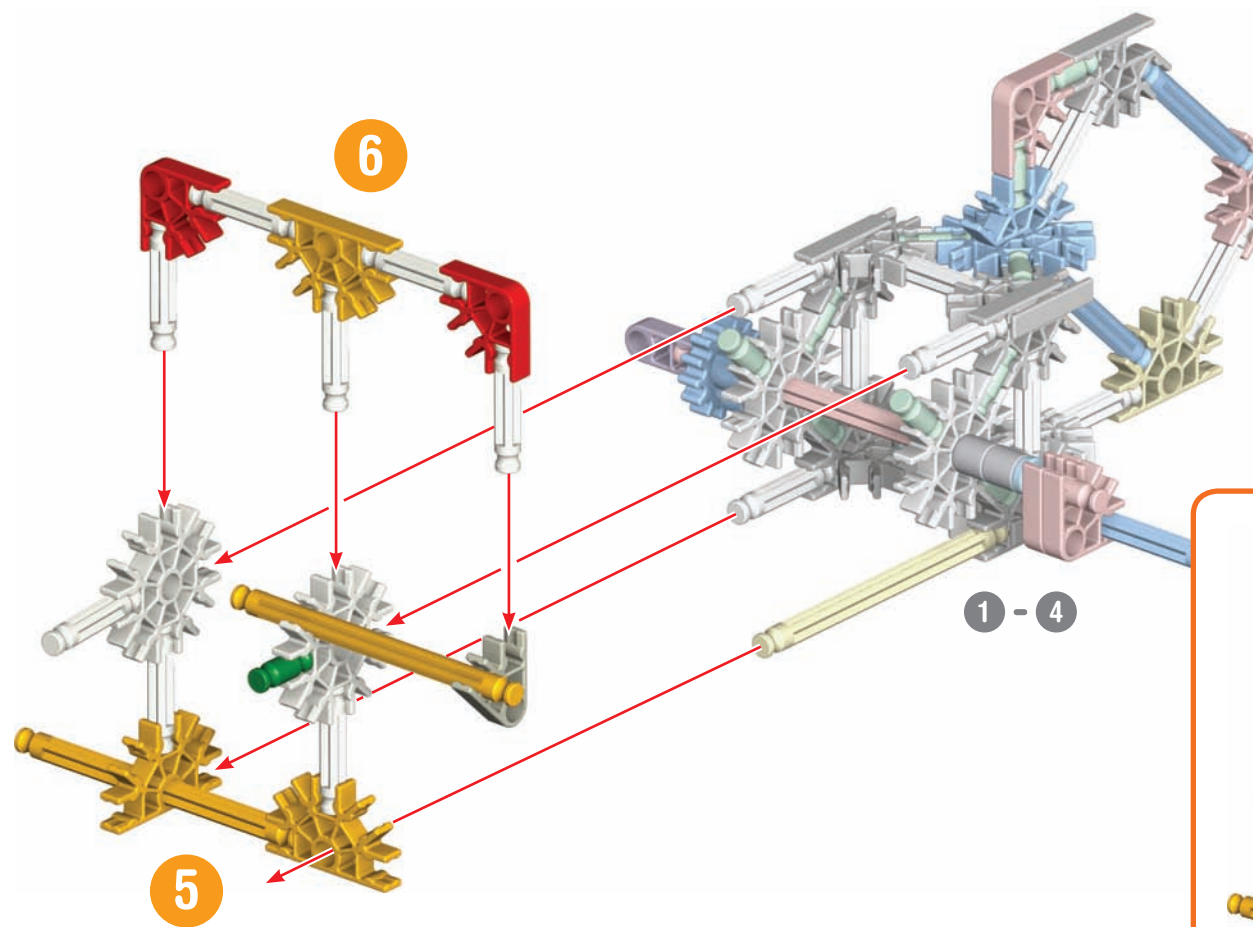


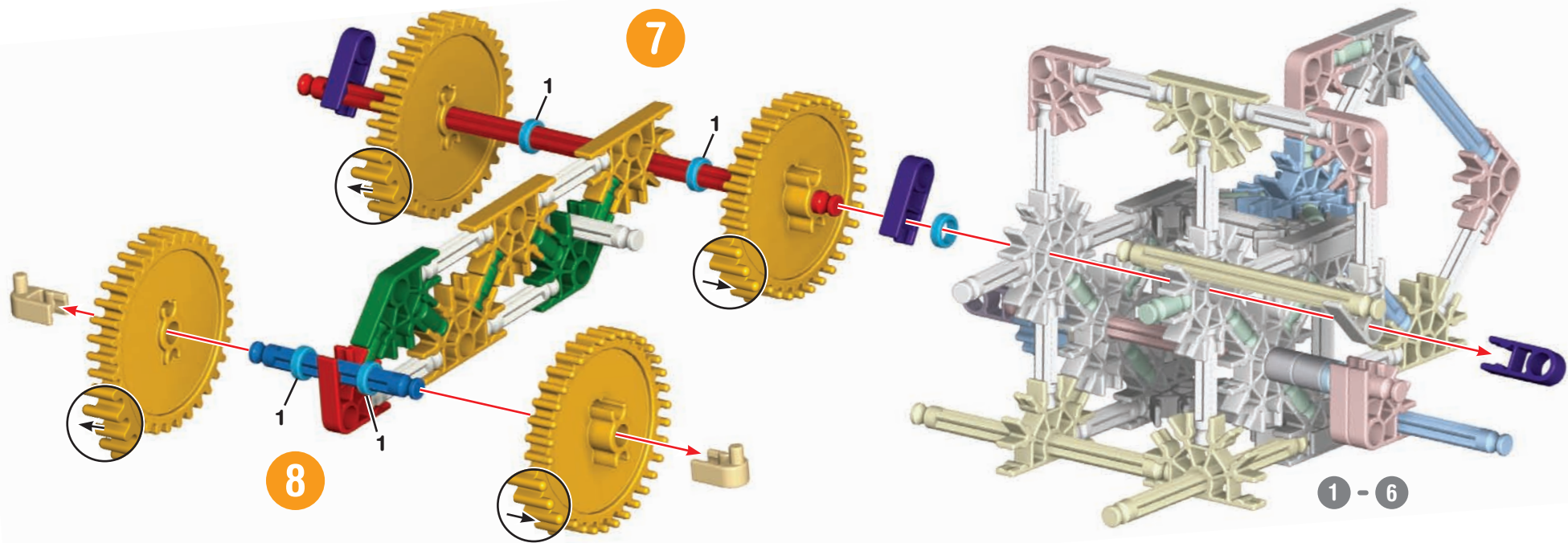
# Chain Saw Scie à chaîne



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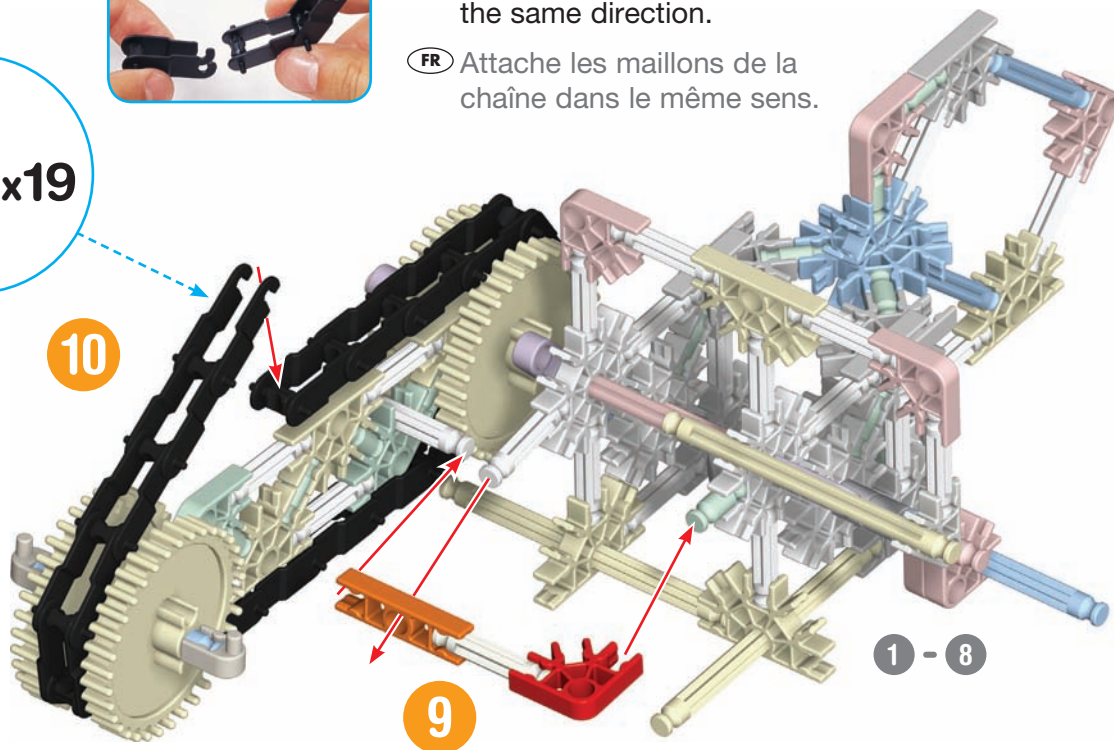
(EN) Attach all the chain links in the same direction.

(FR) Attache les maillons de la chaîne dans le même sens.



x19

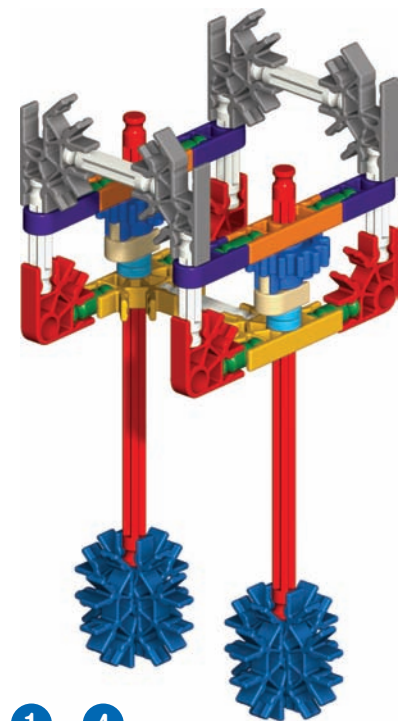
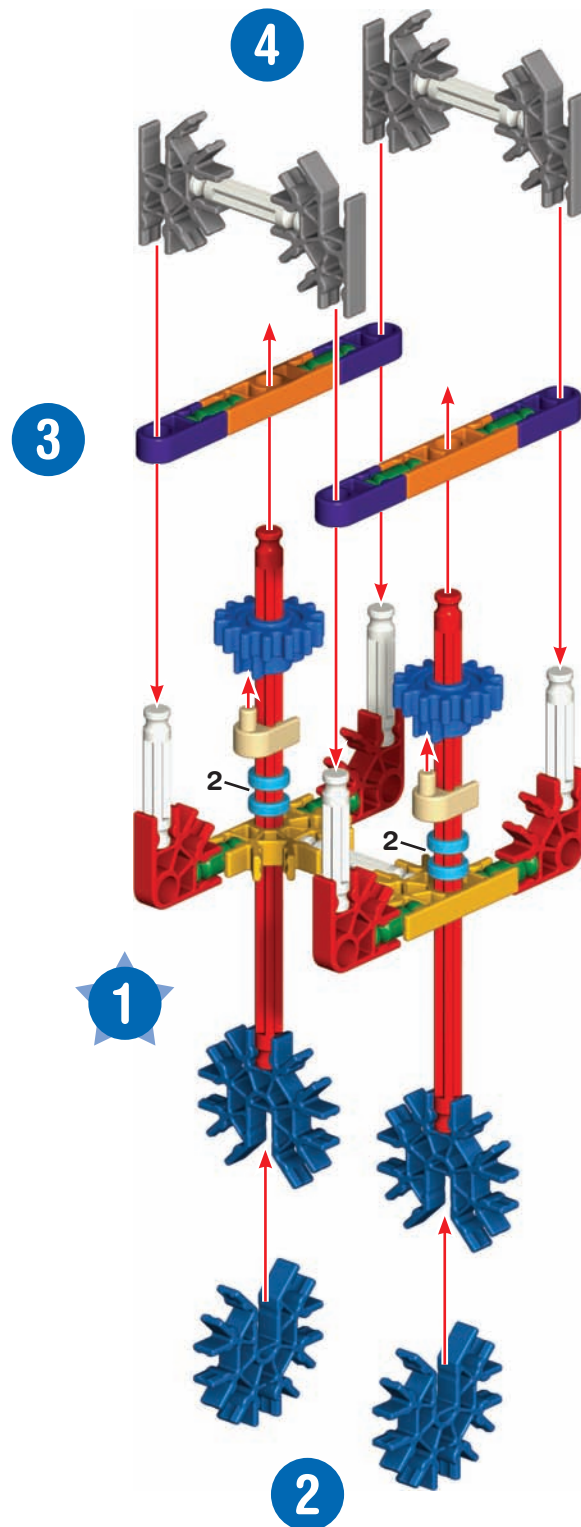
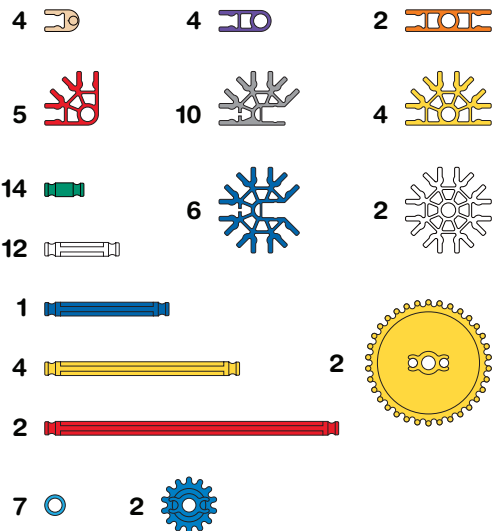
10

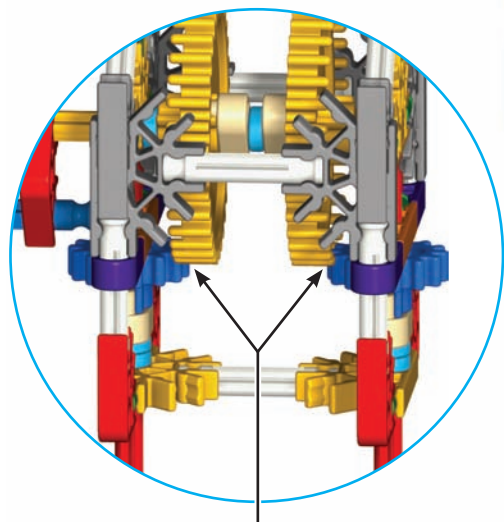
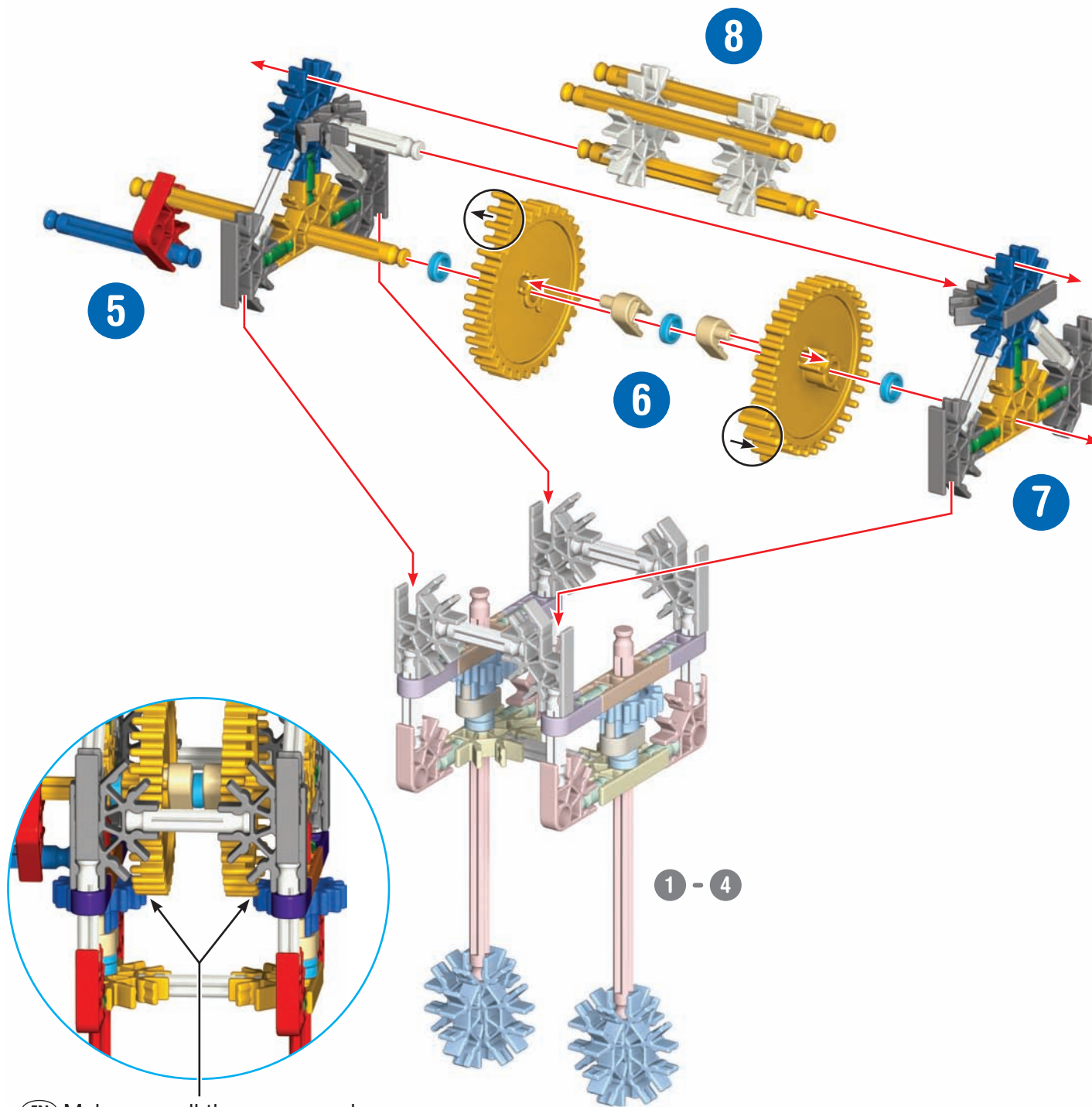


# Eggbeater Fouet à œufs



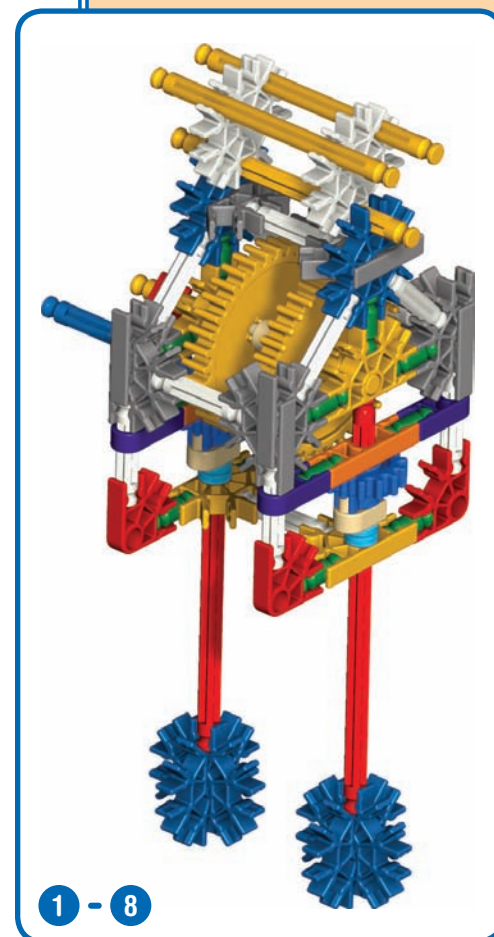
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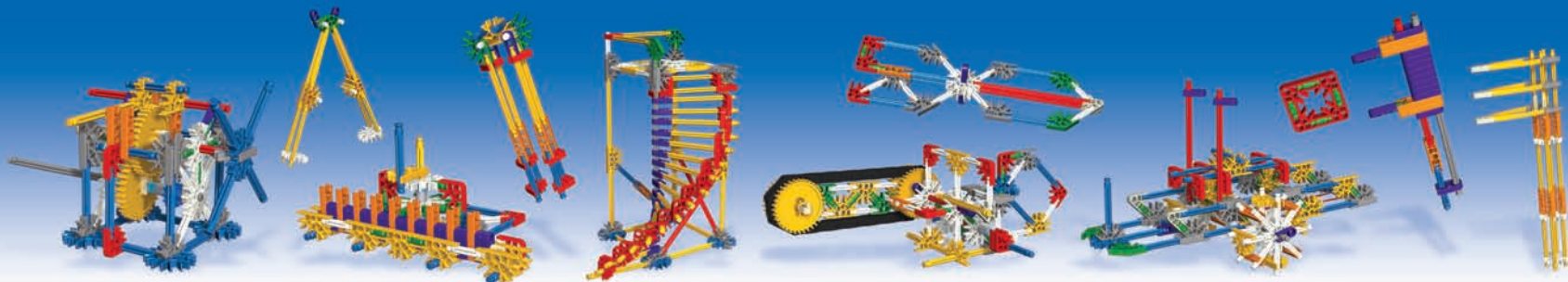


(EN) Make sure all the gears mesh.

(FR) Surveille l'engrènement.



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(FR) Produits et couleurs peuvent varier. La plupart  
des modèles ne peuvent être construits que un à un.  
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K'NEX Education  
P.O. Box 700  
Hatfield, PA 19440-0700

1-888-ABC-KNEX (US/CA)  
abcknex@knex.com

(UK)  
K'NEX UK Ltd.,  
P.O. Box 3083,  
Reading RG1 9YQ, England

Data Harvest Group Ltd.  
1 Eden Court, Leighton Buzzard  
Bedfordshire, LU7 4FY  
United Kingdom

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