10363

LEGO.com/sustainable-packaging

FR

DONNEZ OU RECYCLEZ

ASSOCIATION OU MAGASIN OU DÉCHÈTERIE

Adresses sur quefairedemesdechets.fr

BUILDER

Download on the App Store

GET IT ON Google Play

腾讯应用宝 安卓应用商店

LEGO.com/devicecheck

LEGO® Builder

艺术家、工匠、航空设计师

列奥纳多·达·芬奇（1452-1519 年）是文艺复兴时期无可争议的创新大师。达·芬奇因其富有远见的才华、无限的好奇心和张扬的性格而受到同时代人的崇拜，还因其独特的创造力而备受赞誉。他以无与伦比的热情、决心和工匠精神毕生致力于探索和突破艺术、人体和动物解剖学、物理学和工程学的界限。
虽然是《蒙娜丽莎》、《最后的晚餐》等绘画杰作让他一举成名，但他一生对人类飞行的痴迷也同样让人为之敬畏。

“最崇高的快乐是理解的快乐。”

– 列奥纳多·达·芬奇

模仿鸟类的飞行

尽管据报道，列奥纳多·达·芬奇的航空发明在他的时代从未面世，但他的想法、设计和研究为几个世纪后第一架可以飞行的飞机提供了宝贵的灵感。扑翼机是他最著名的作品之一，但它们都建立在同一个想法上，即一个人驾驶着一台带有翅膀的机器。飞行员利用自身的力量，拉动和推动曲柄和绳索，使机翼上下拍打。

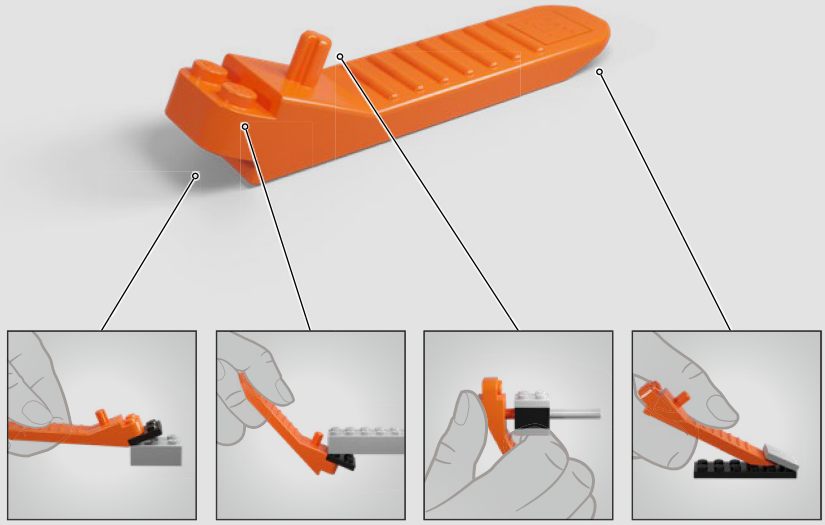
“大道至简。”

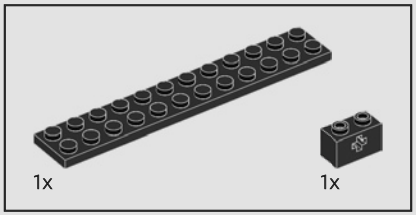
– 列奥纳多·达·芬奇

乐高®设计团队感言

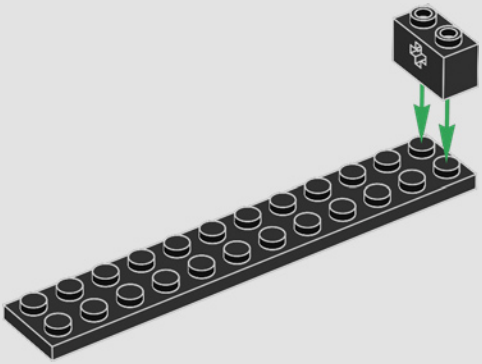
“这就是我们创意的起点——制造一台带有活动部件的机器，所有这些部件都连接在一起，并在拉动绳索时启动，或者在本套装情况下，通过一根绳子启动。这是一款看似简单的模型，实际上却是一项很棒的乐高®工程挑战。该模型看起来像是由木头、亚麻布和绳子制成。它的尾部和机翼带有积木拼搭的骨架，织物机翼上印有图案。将纺线作为机翼拍打机构的主要组成部分是一项巨大的挑战！模型的机械部件暴露在外，以展现功能部件和列奥纳多的愿景，并让我们对原始设计的乐高诠释版拍打飞行。”

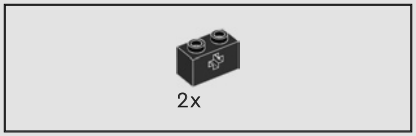
Antica Bracanov
乐高®高级设计师



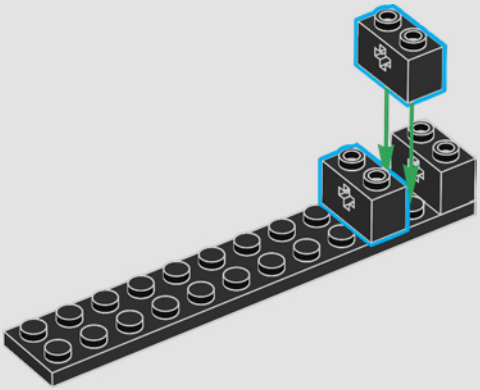


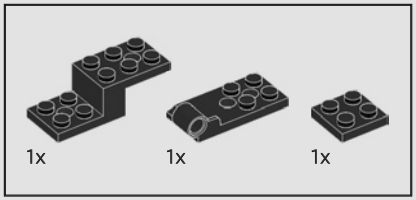
1



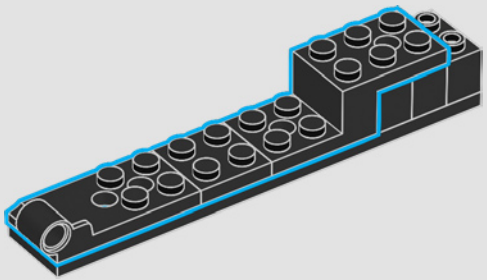


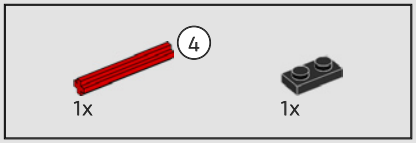
2



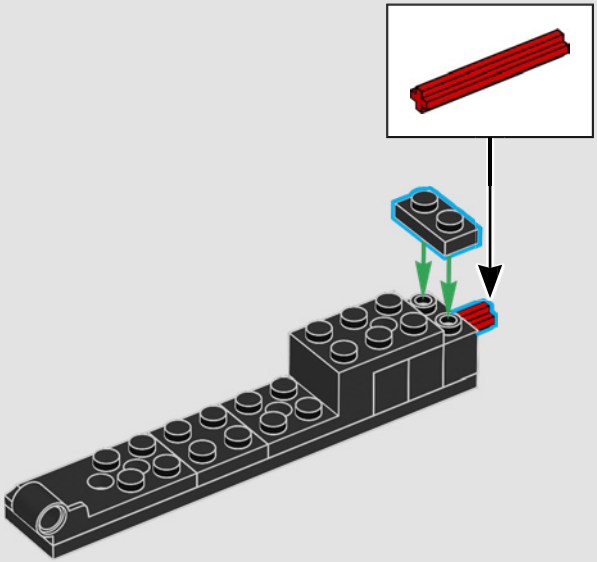


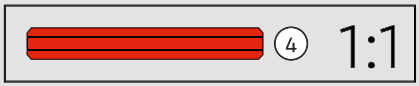
3

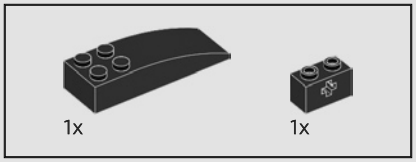




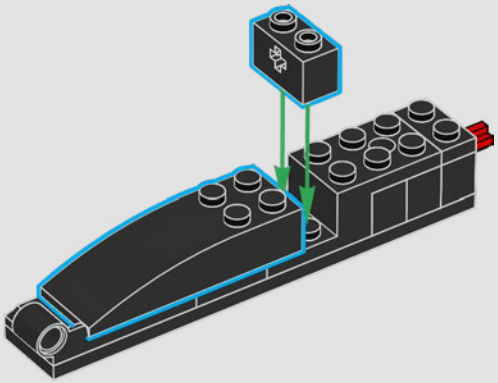
4

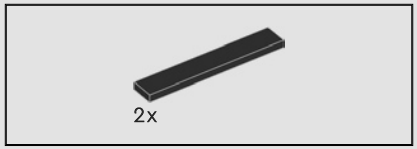




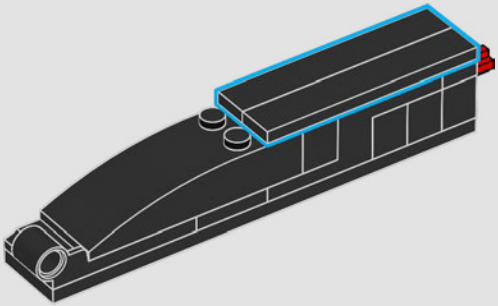


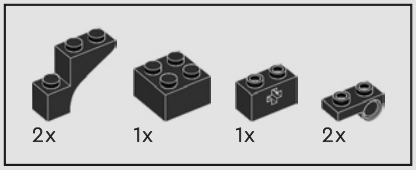
5



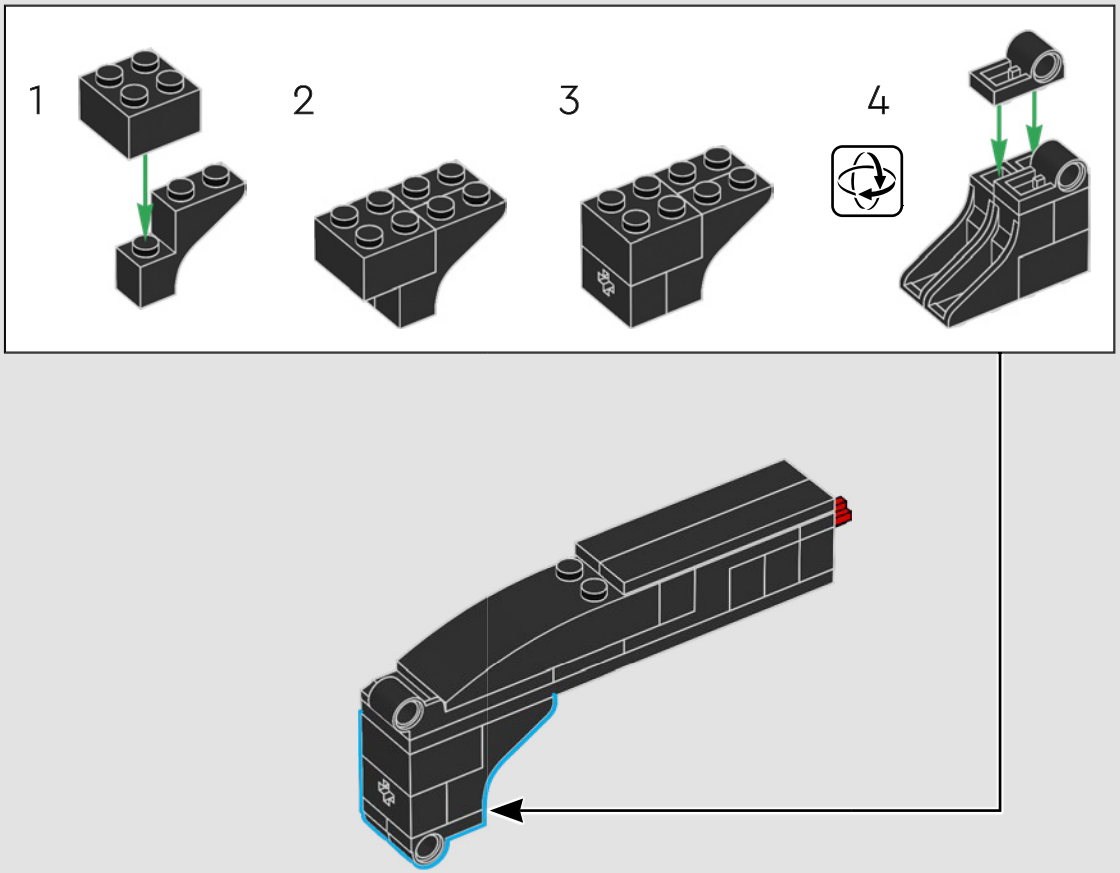


6

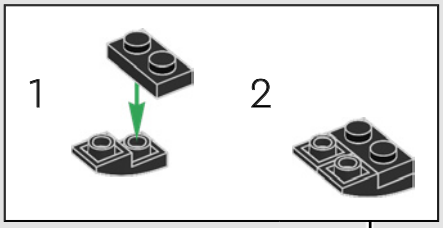


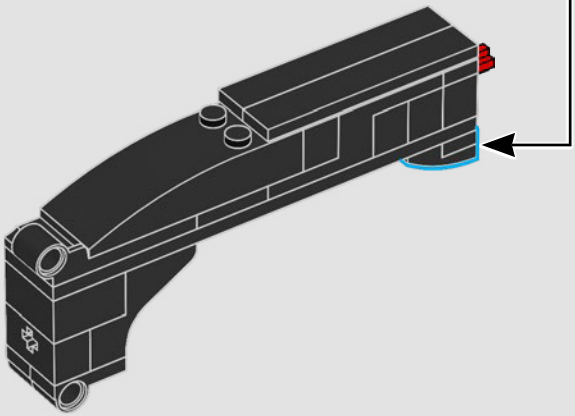


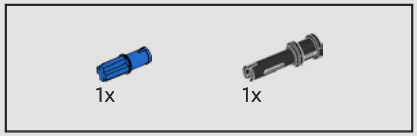
7



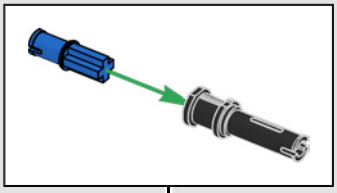
8

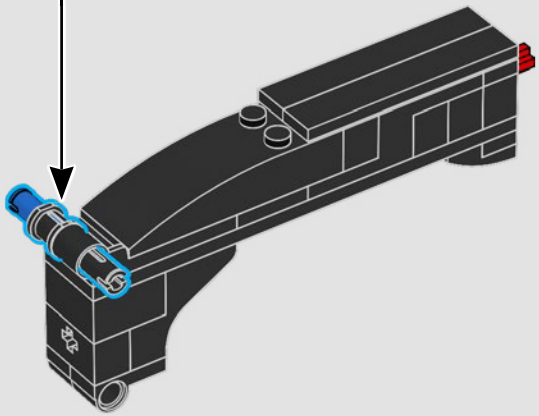


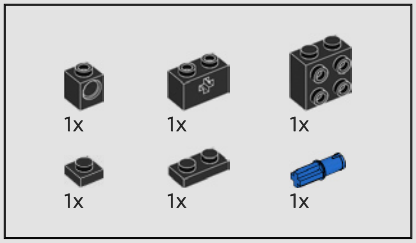




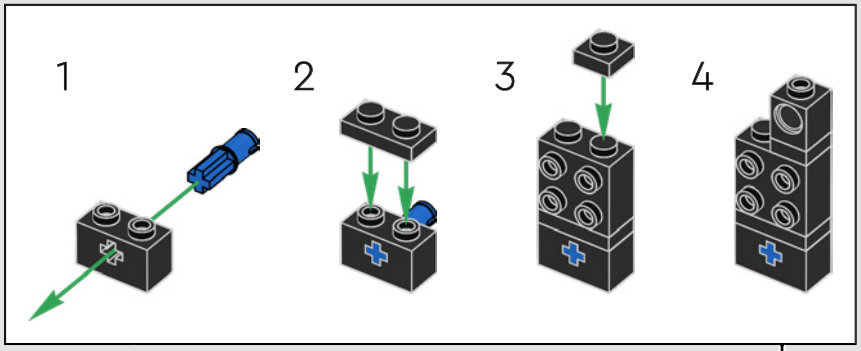
9

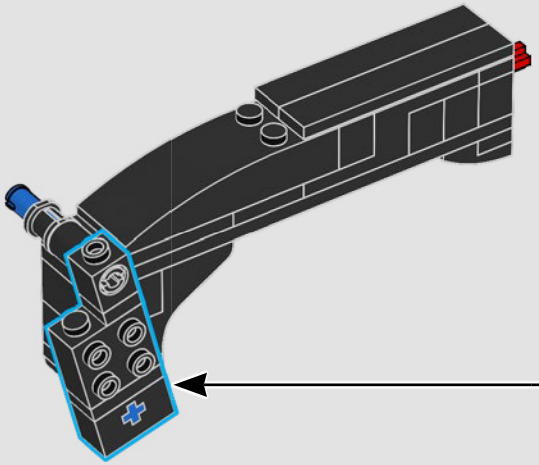


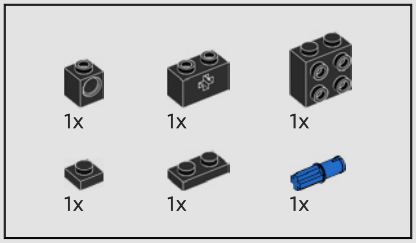




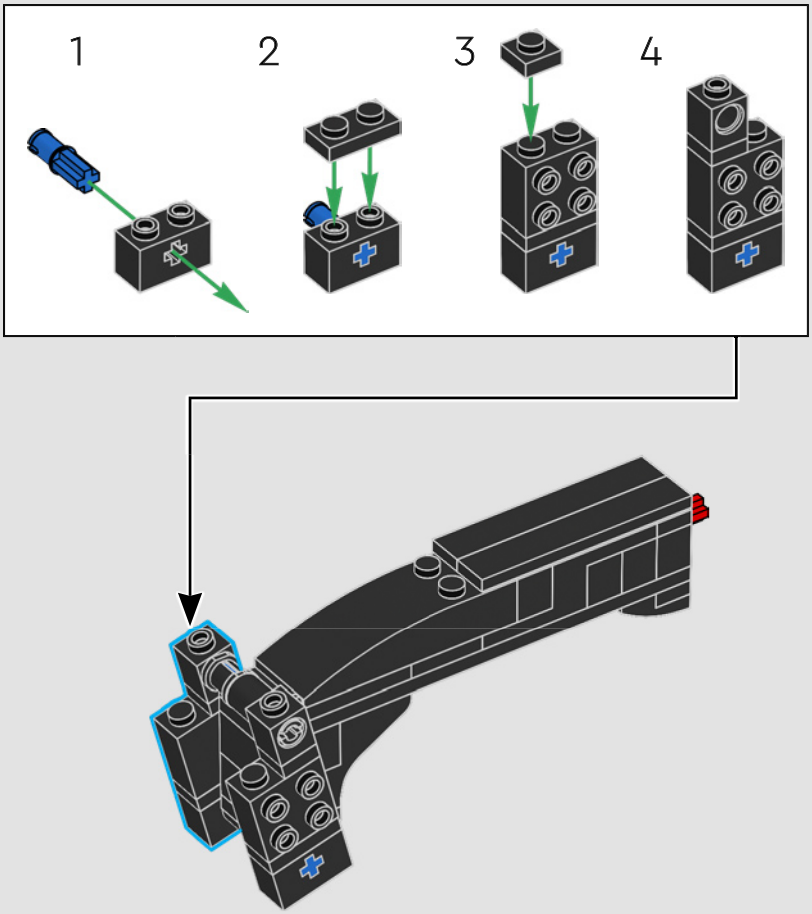
10



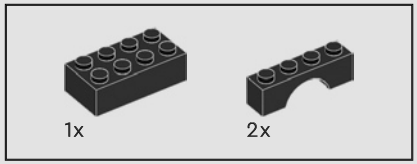




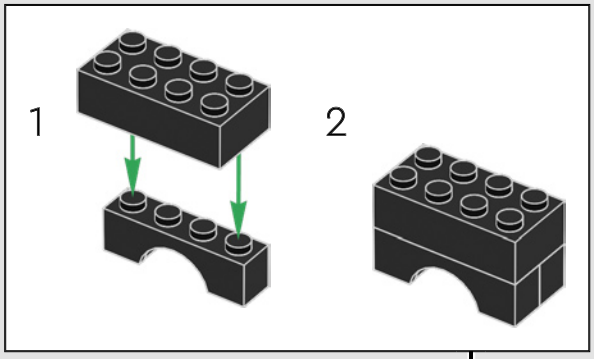
11

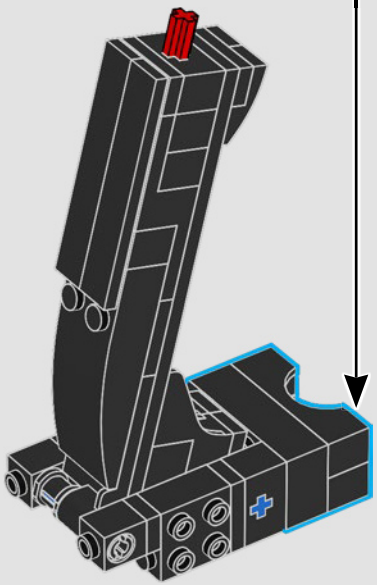


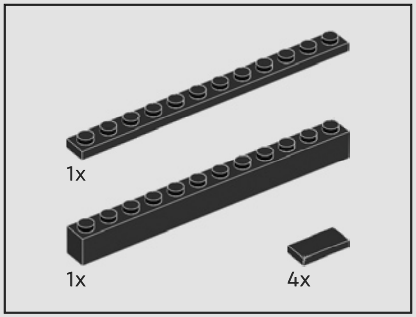
达芬奇的其中一架飞行器被称为 Il Grande Nibbio，
其设计灵感来自鹰科的一种鸟：鸢，并以此命名。



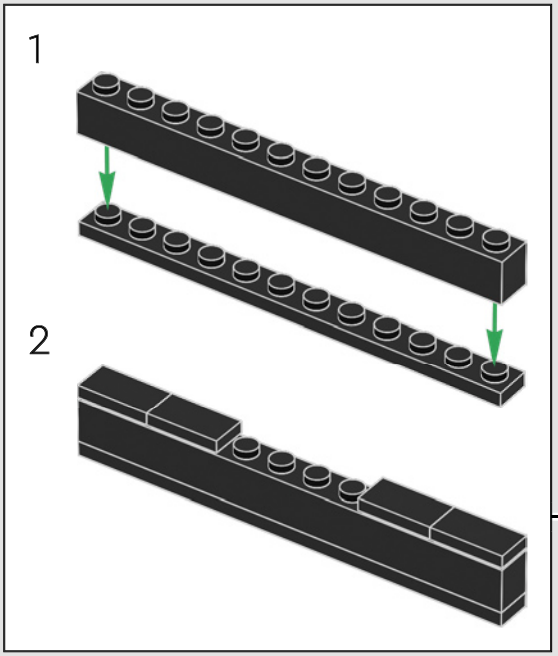
12

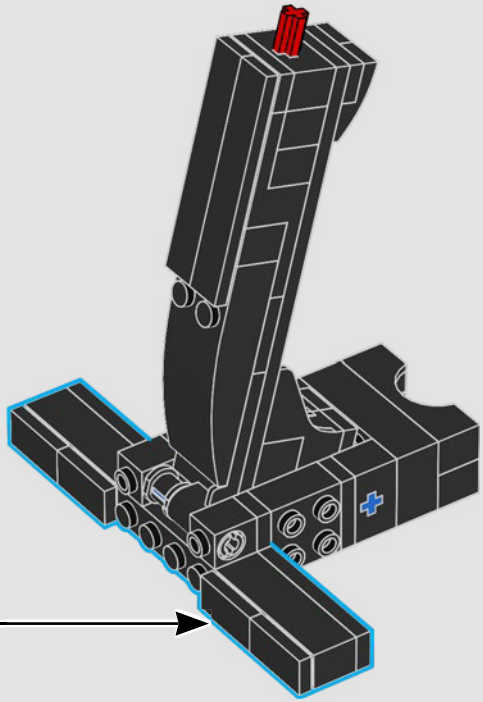


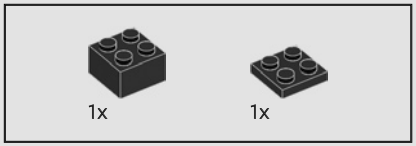




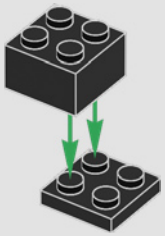
13

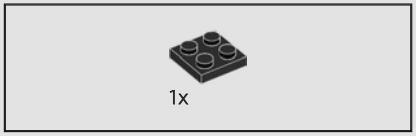




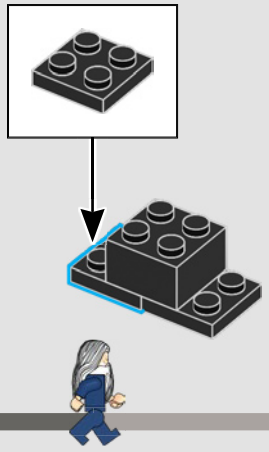


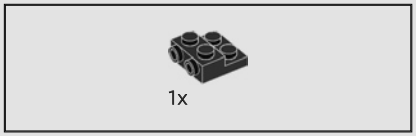
14



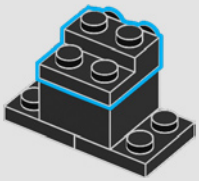


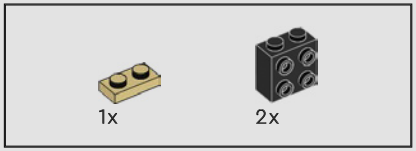
15



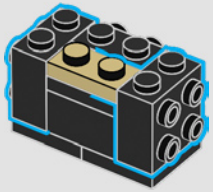


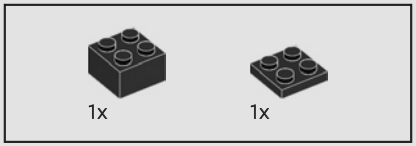
16



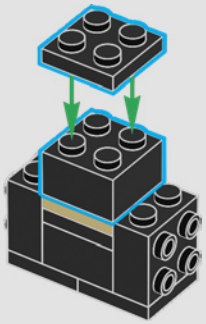


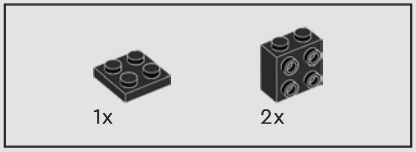
17



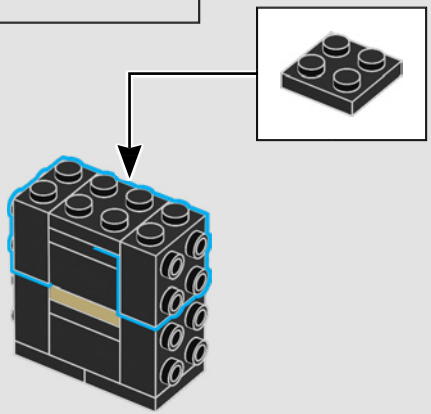

1x
1x

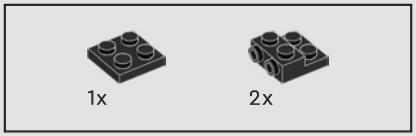
18



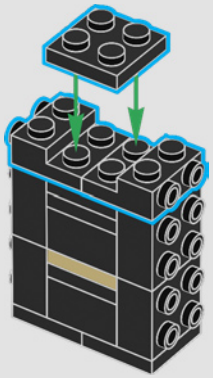

1x
2x

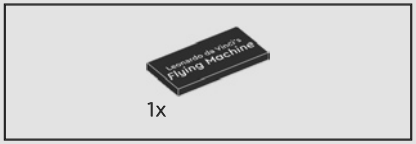
19




1x
2x

20



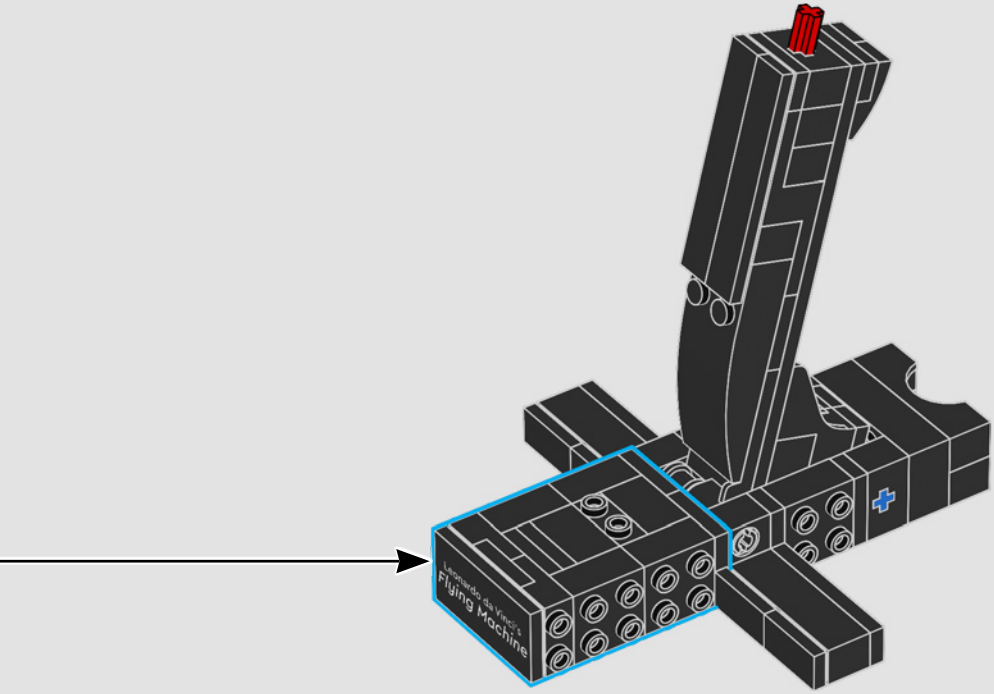

Leonardo da Vinci's
Flying Machine
1x

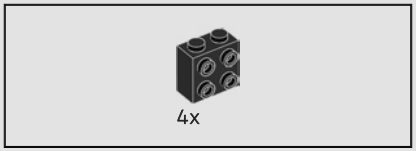
21


Leonardo da Vinci's
Flying Machine

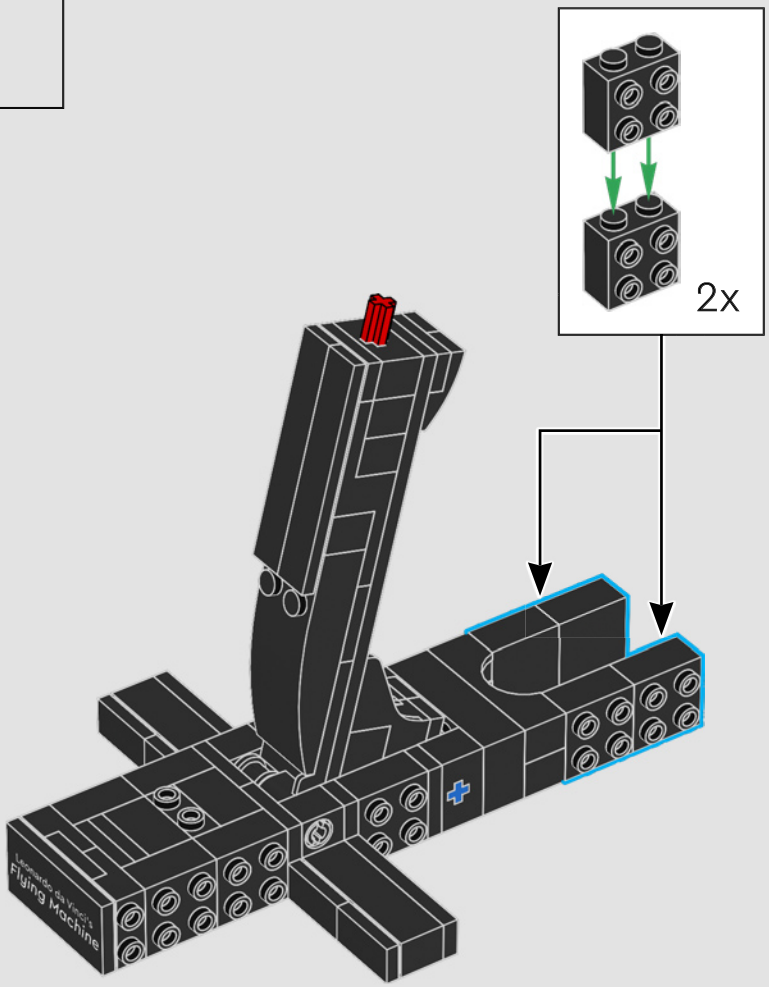
达·芬奇以倒写方式记录笔记而闻名。只有当文字反射到镜子中时，才能正确读取。

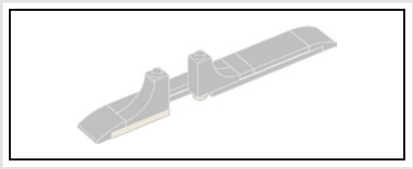
22



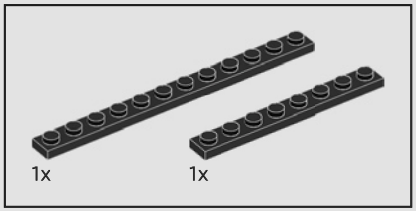


23

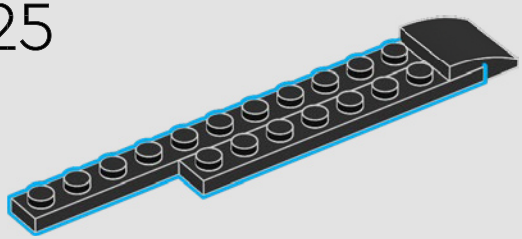


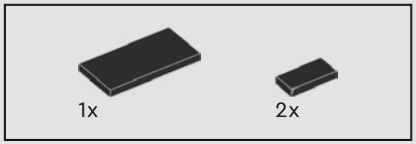


24

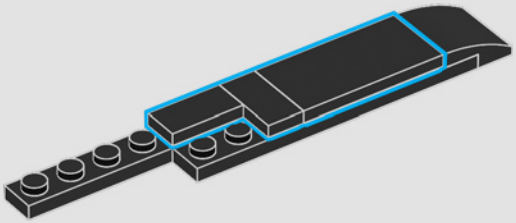


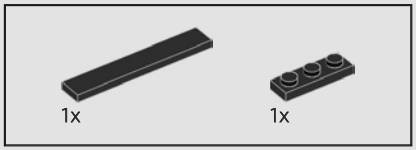
25



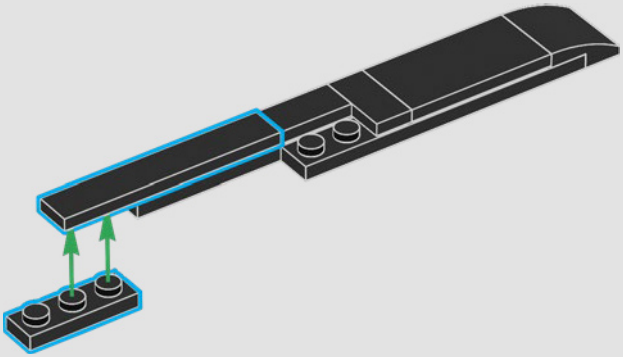


26

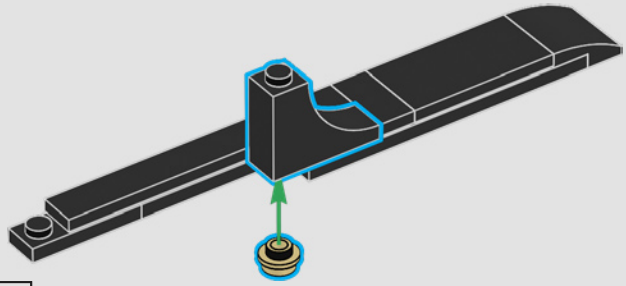


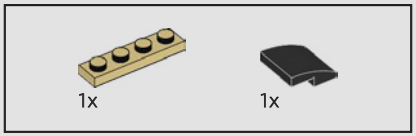


27

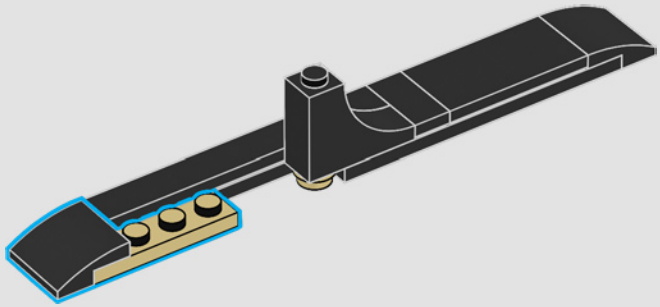


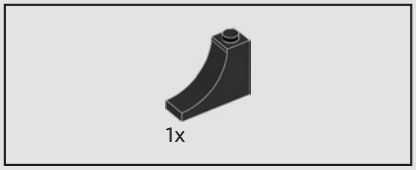
28



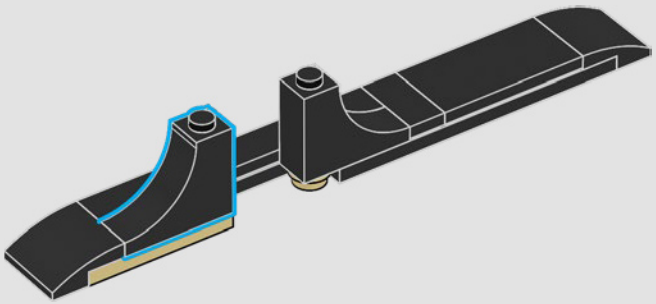


29

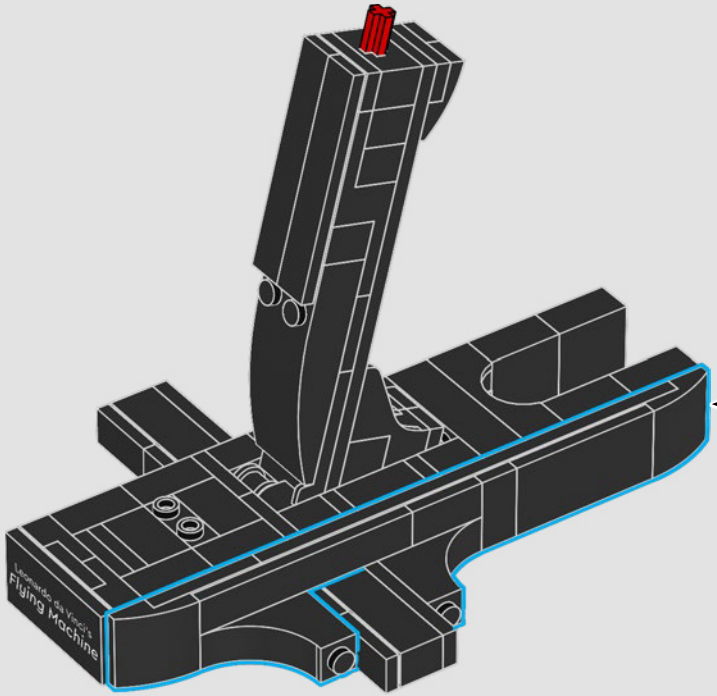


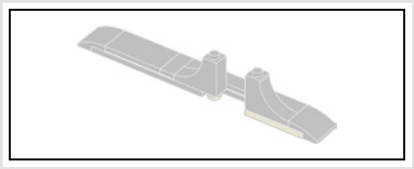


30

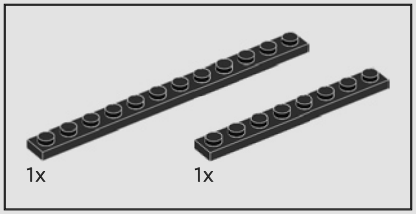


31

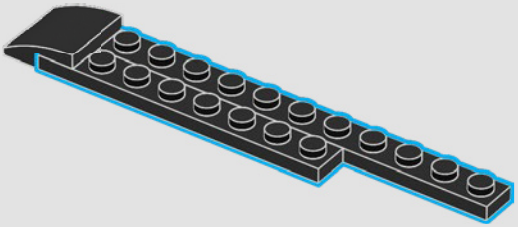


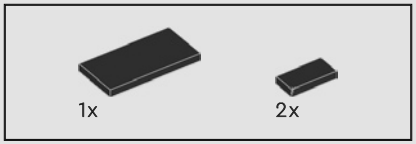


32

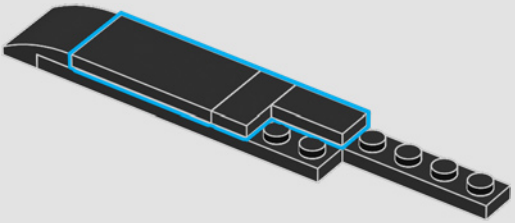


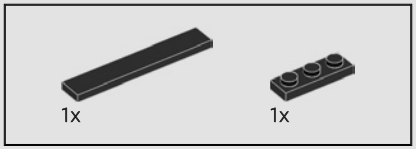
33



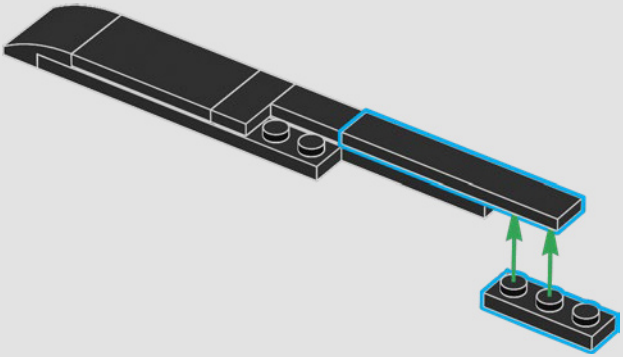


34

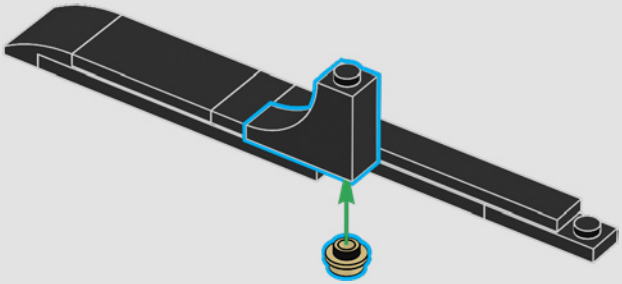


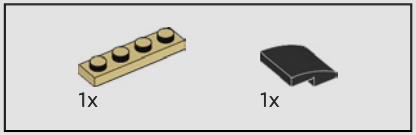


35

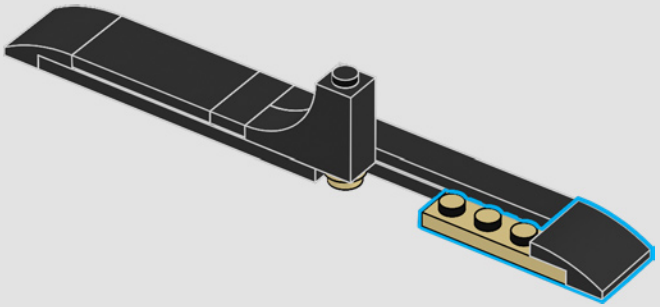


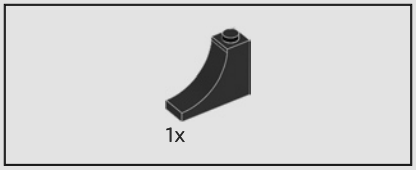
36



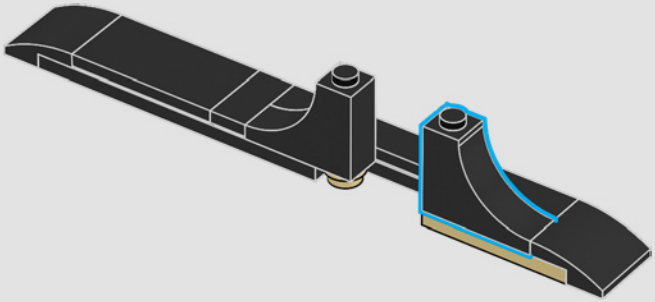


37

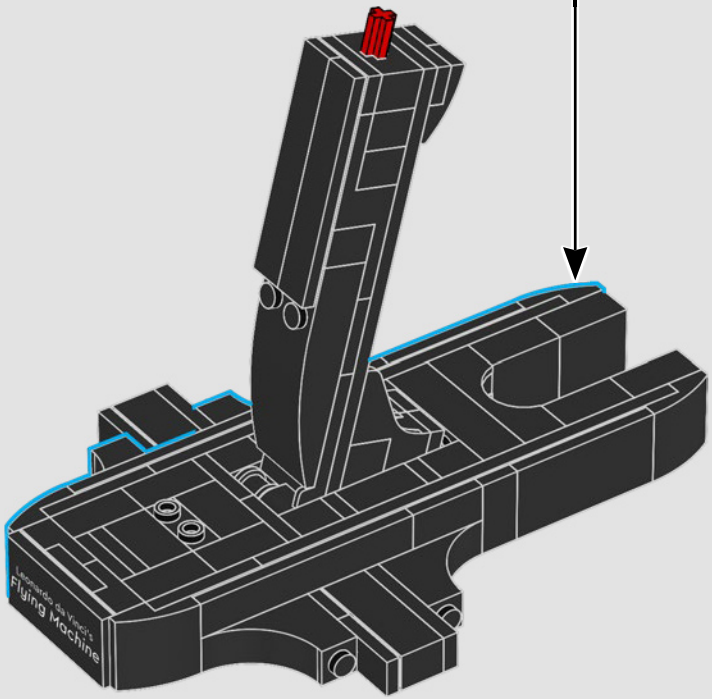




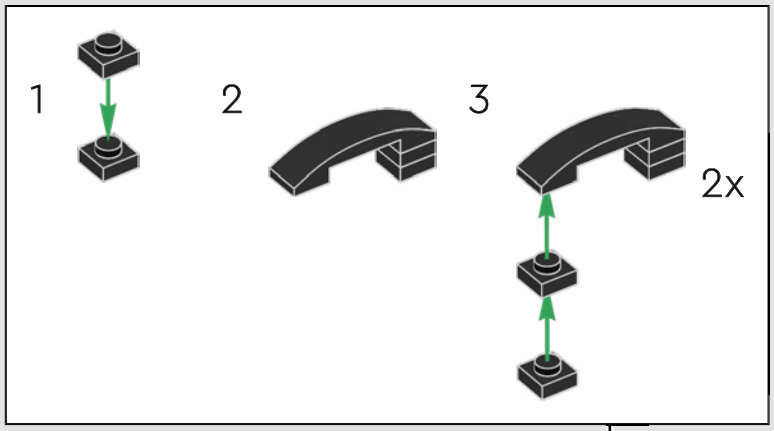
38

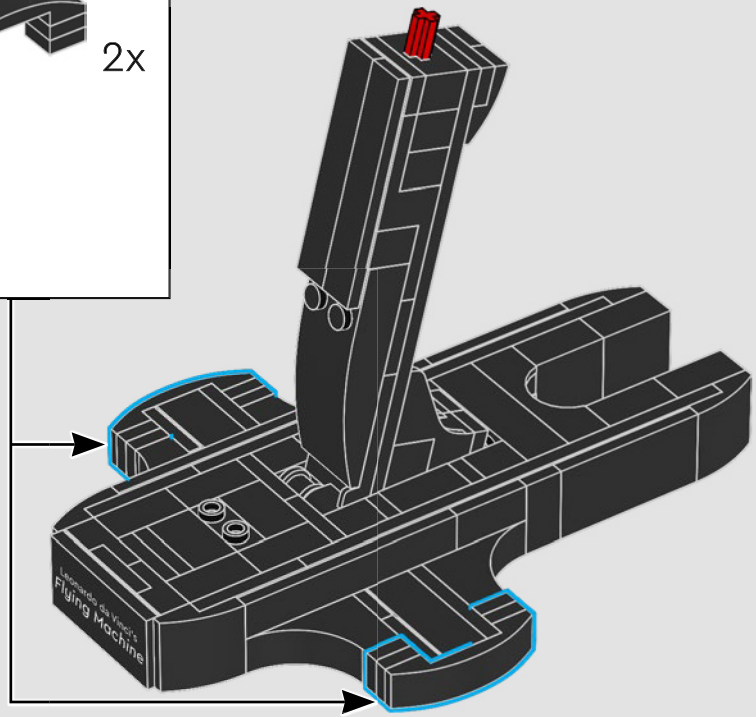


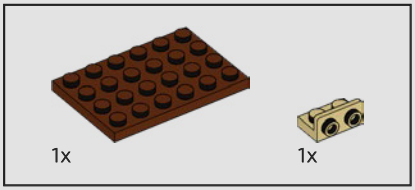
39



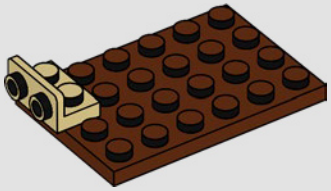
40

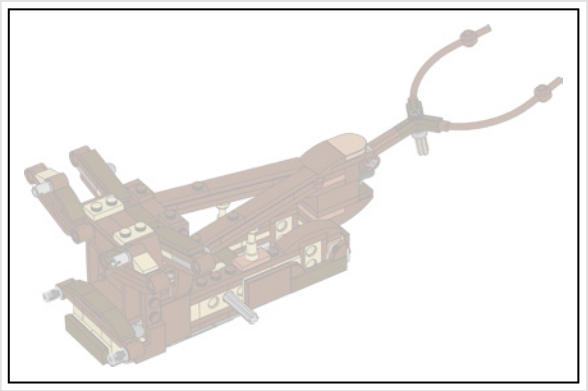


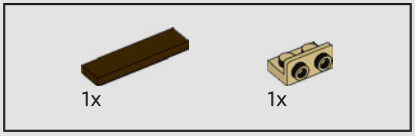




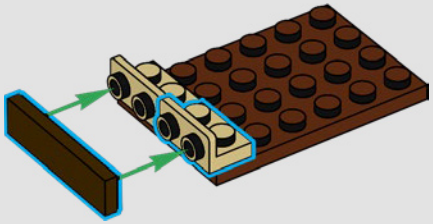
41

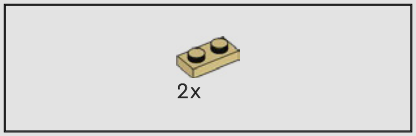




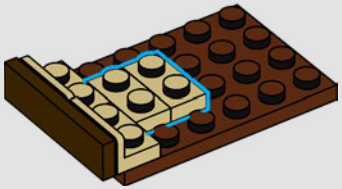


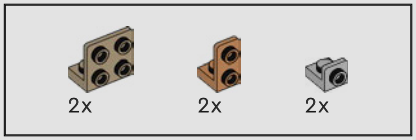
42



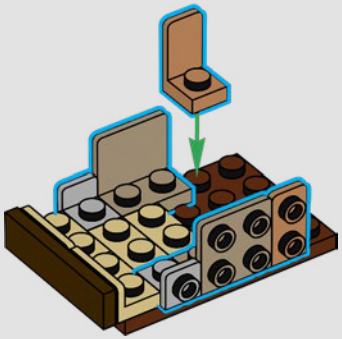


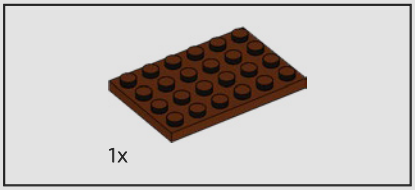
43



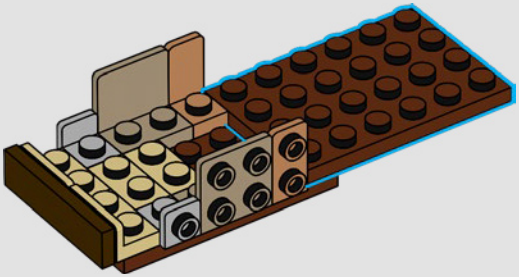


44

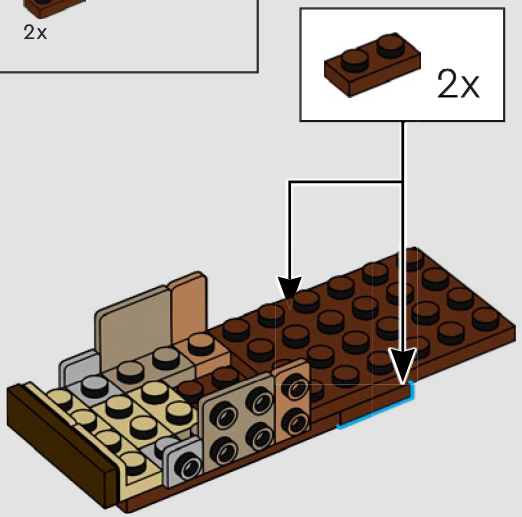


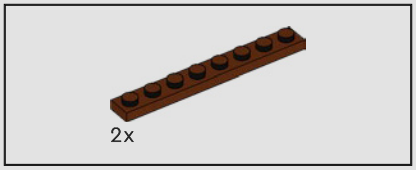


45

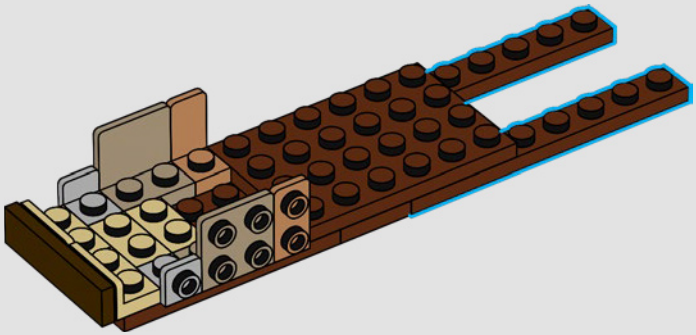


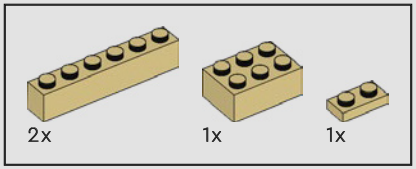
46



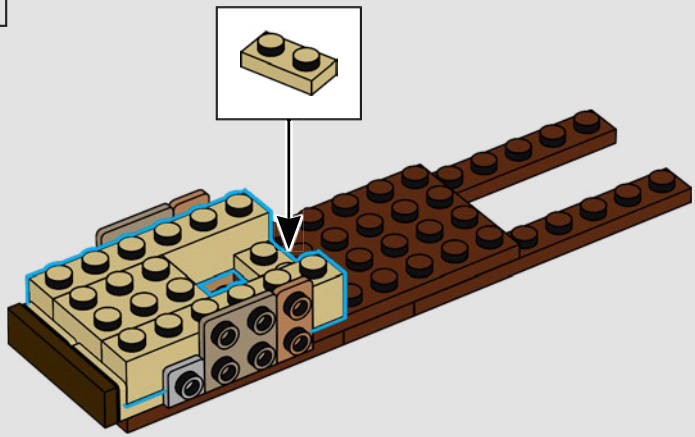


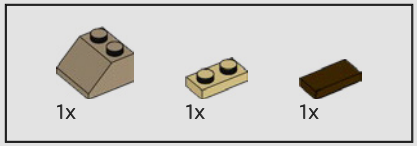
47



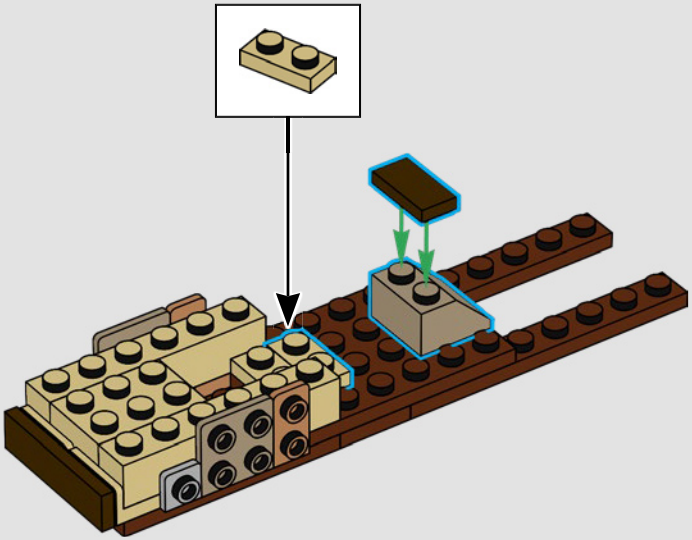


48

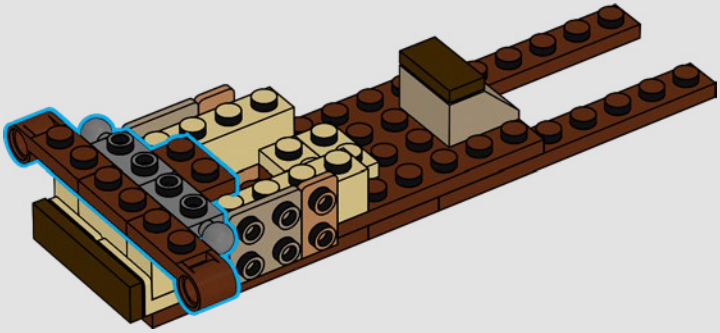


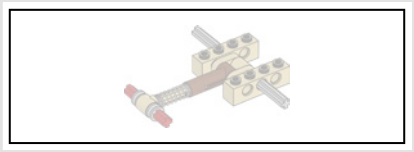


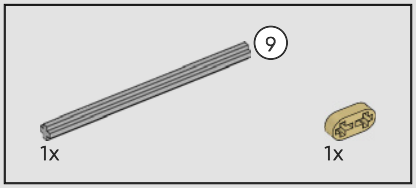
49



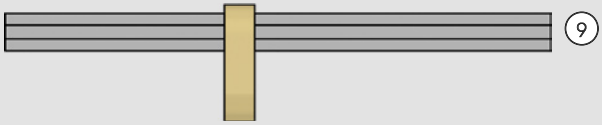
50



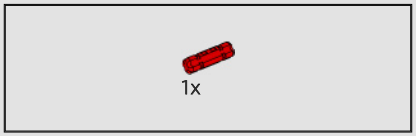




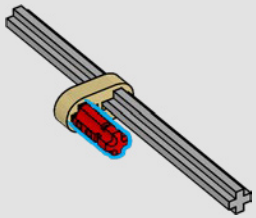
51



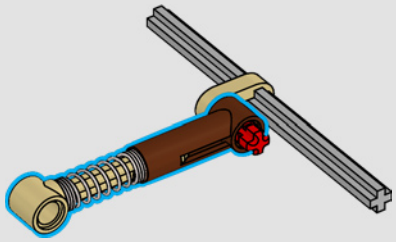
1:1



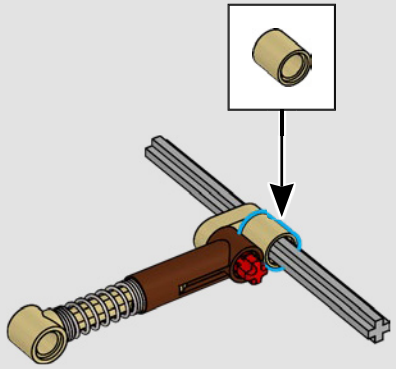
52



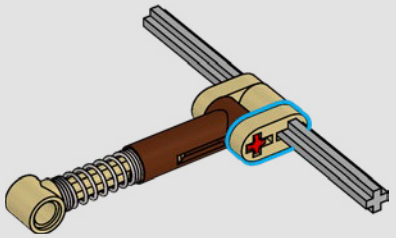
53

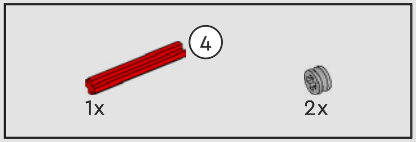


54

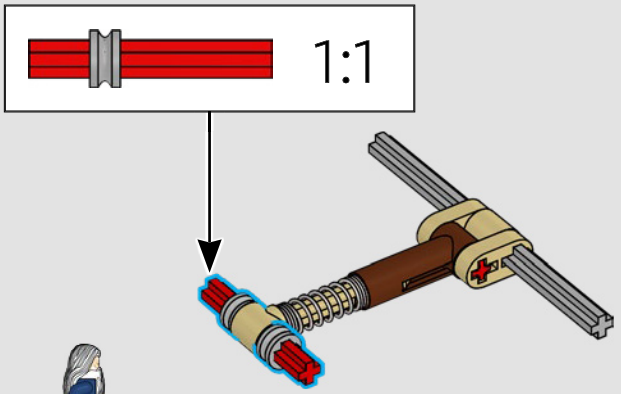


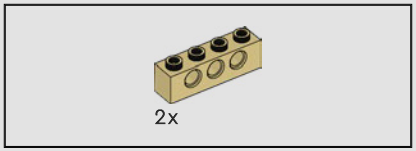
55



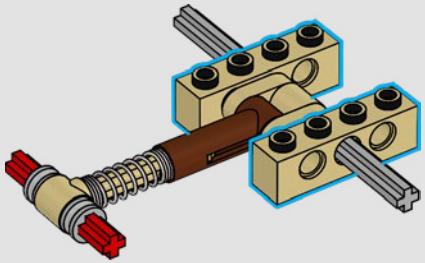


56

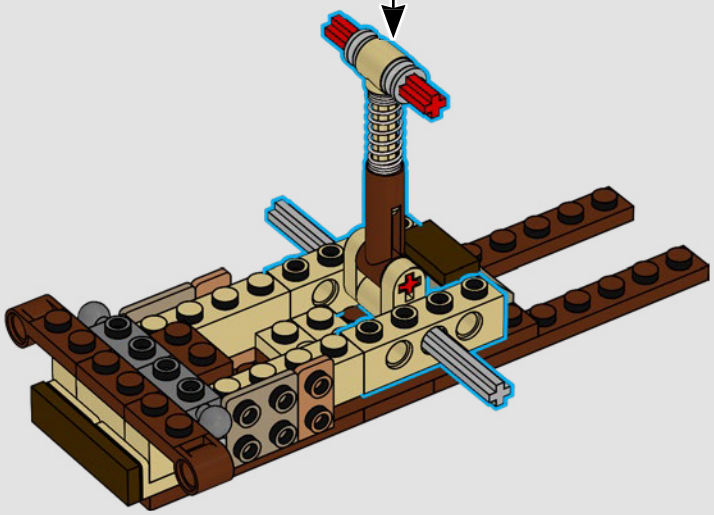




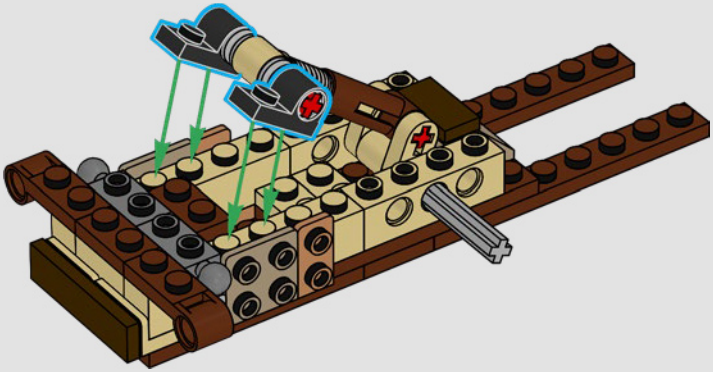
57



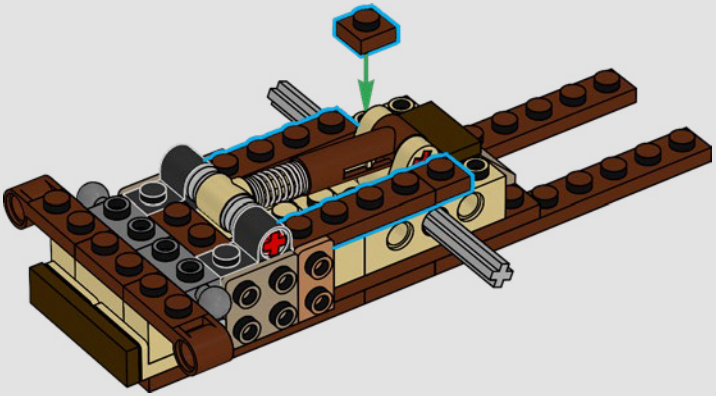
58



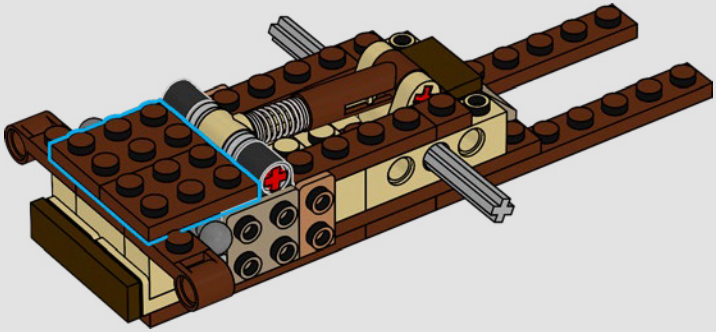
59

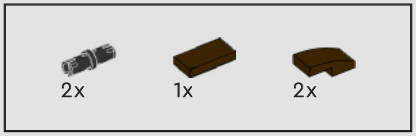


60

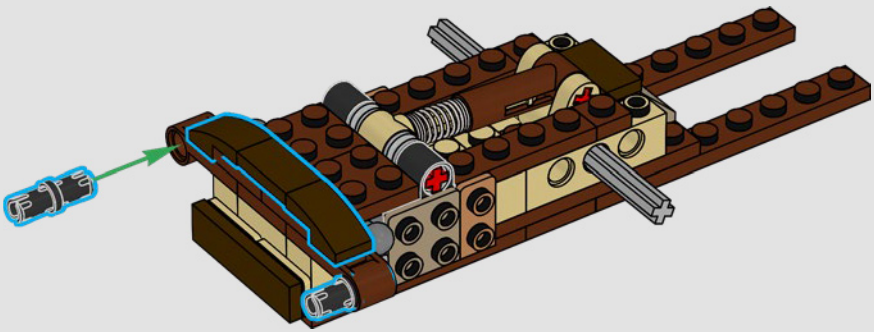


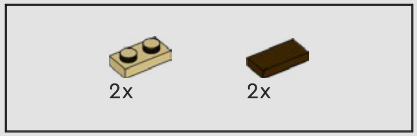
61



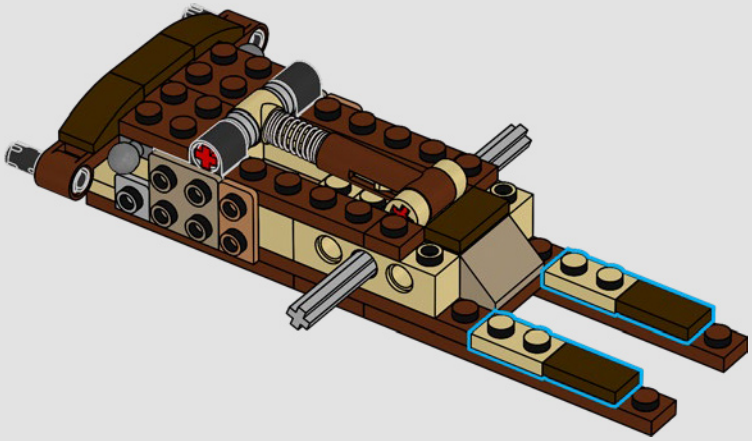


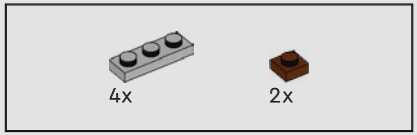
62



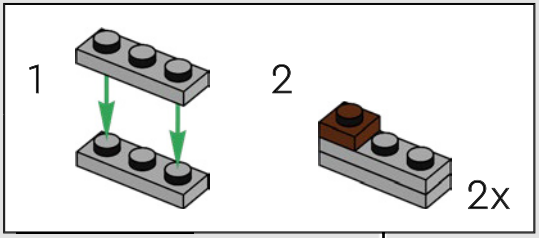


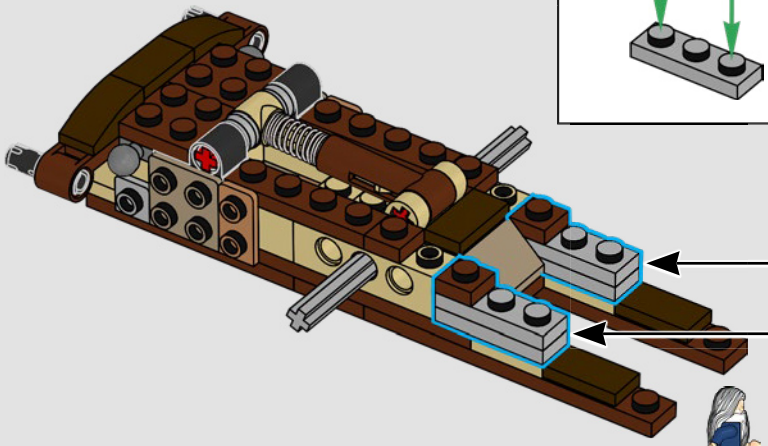
63

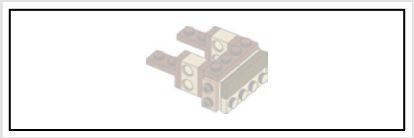


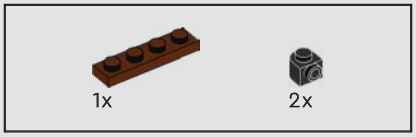


64

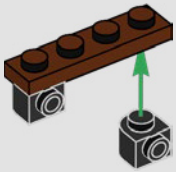


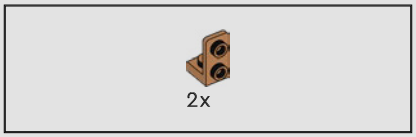




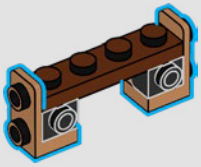


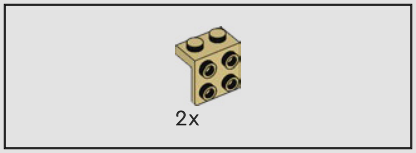
65



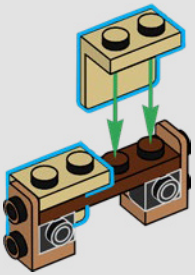


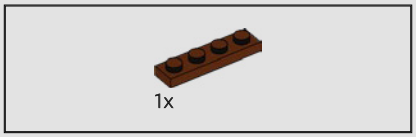
66



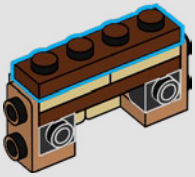


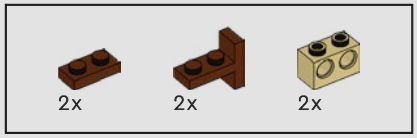
67



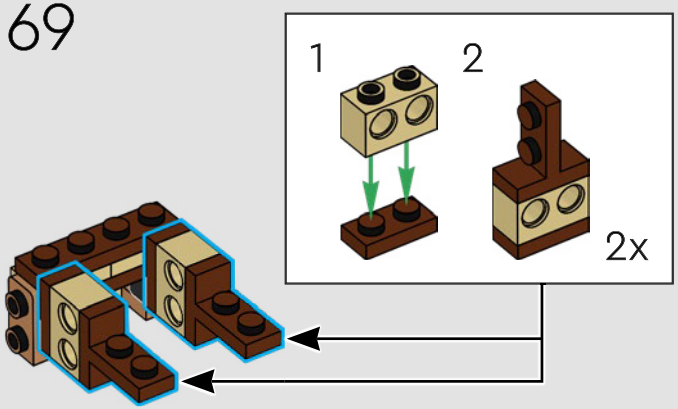


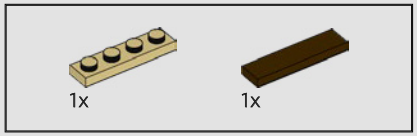
68



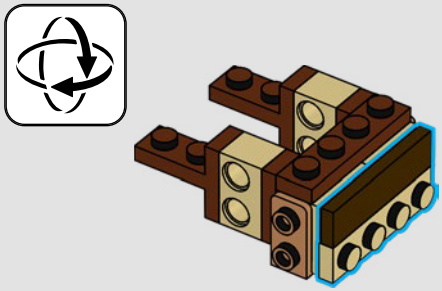


69

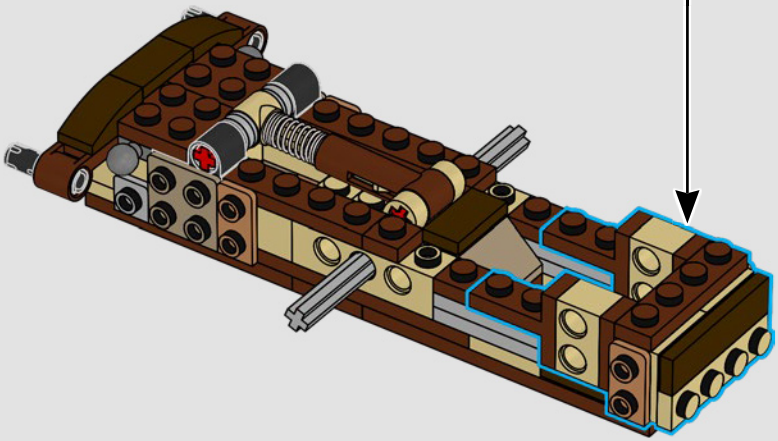


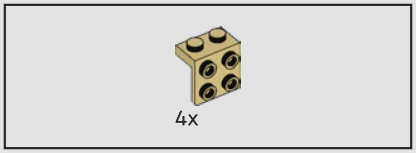


70

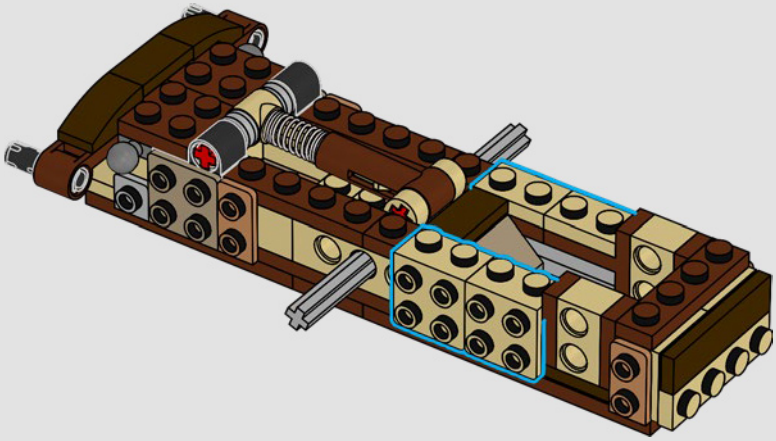


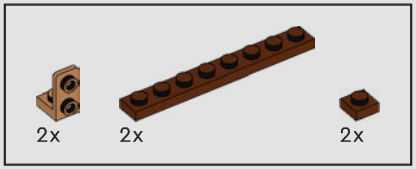
71



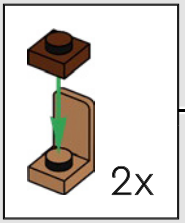


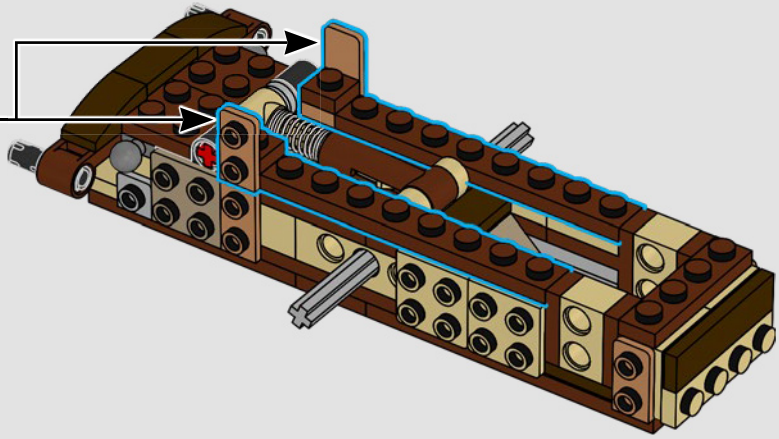
72

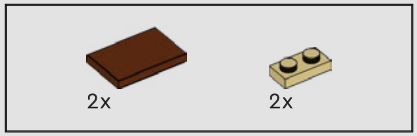




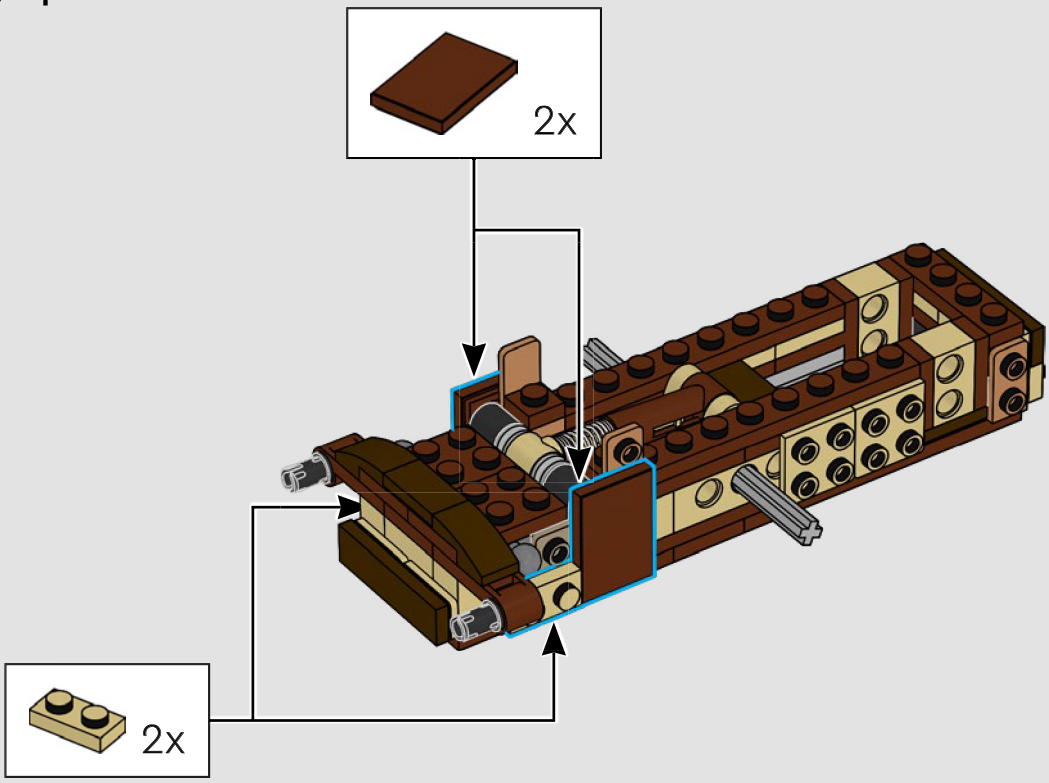
73

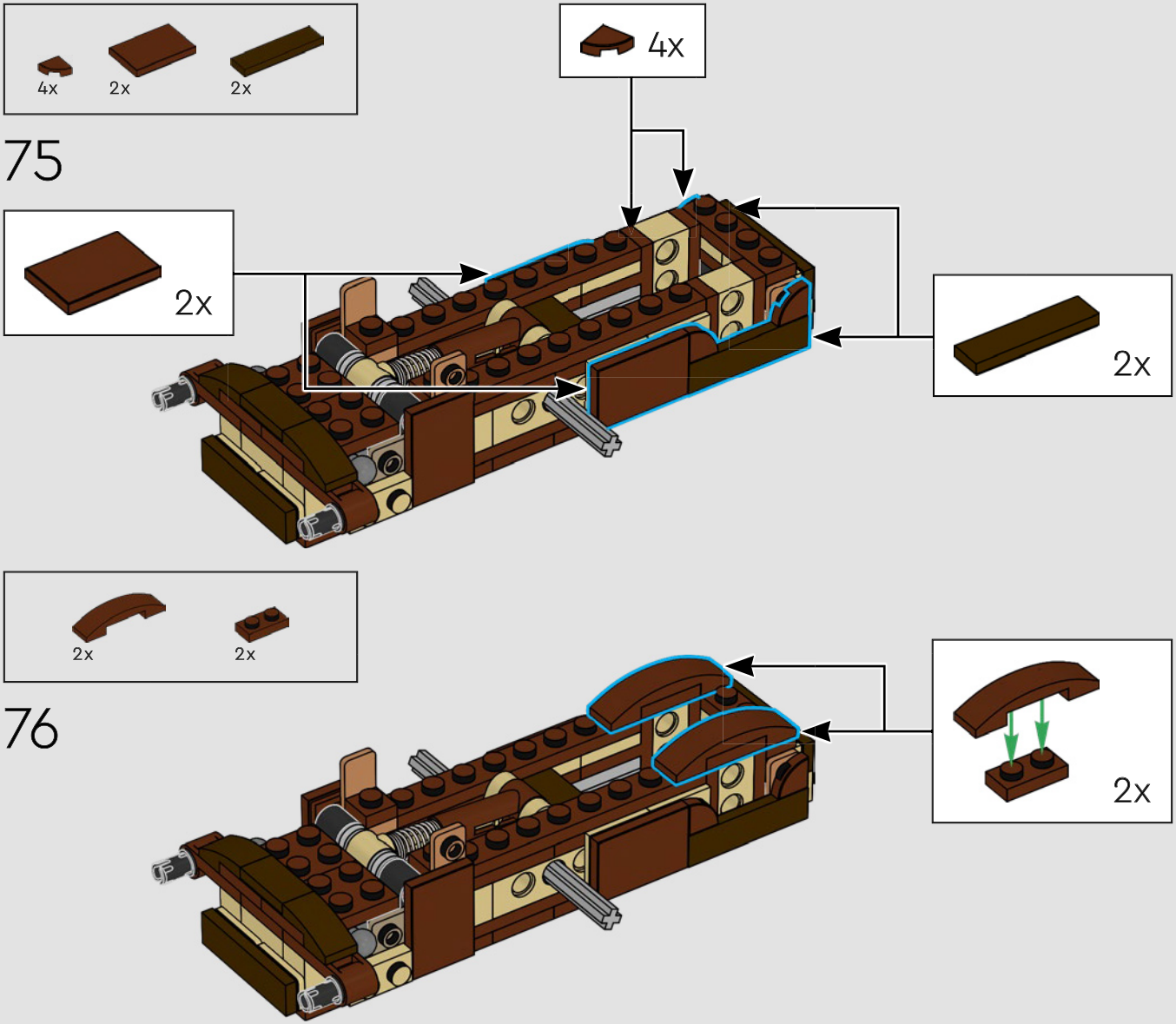


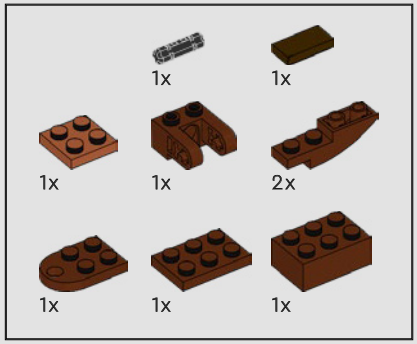




74

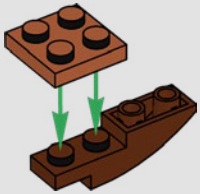



4x
2x
2x
75
4x
2x
2x
2x
2x
76
2x

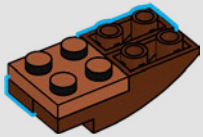


77

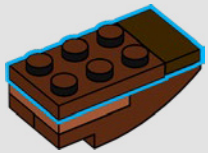
1



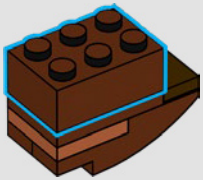
2



3

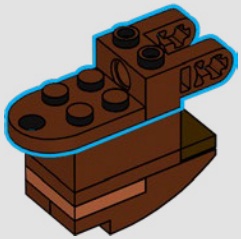


4

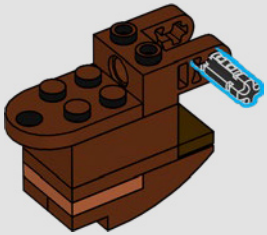


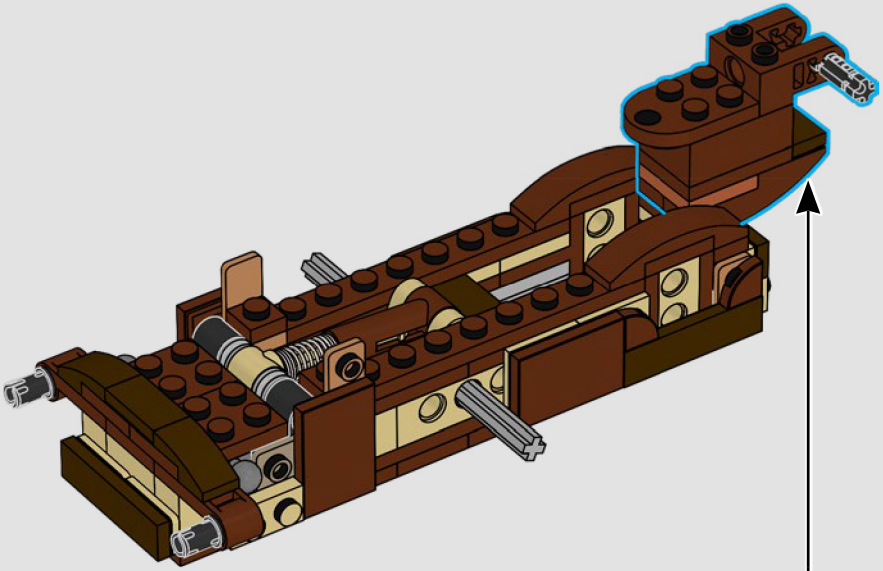
达芬奇的一位朋友建造他设计的扑翼机并进行了低空试飞，
但并不完全成功。这架飞行器坠毁了，达芬奇的朋友摔断了一条腿。

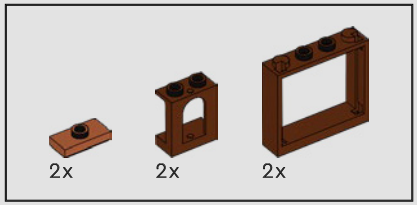
5



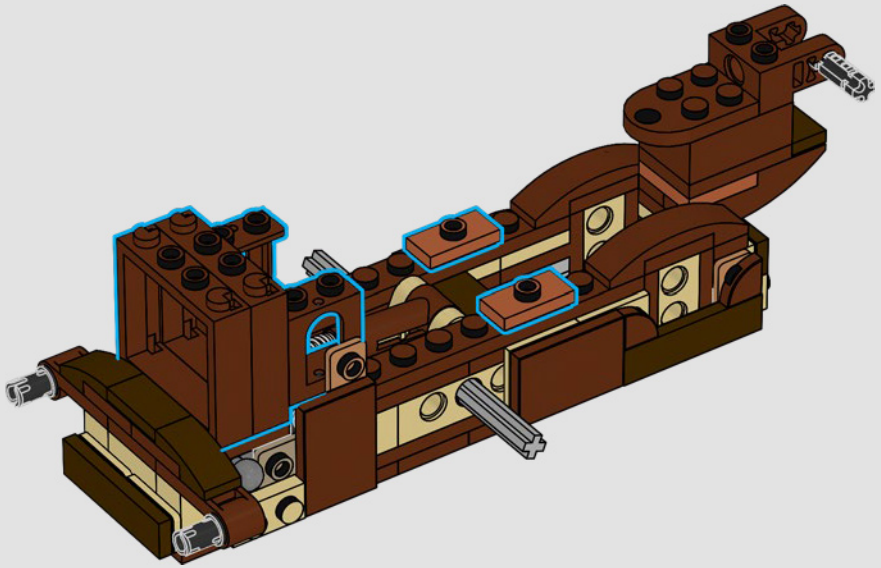
6

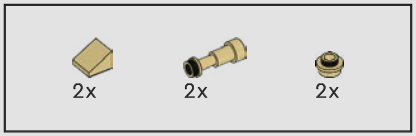




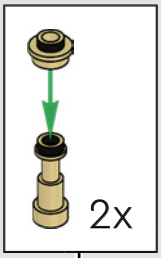


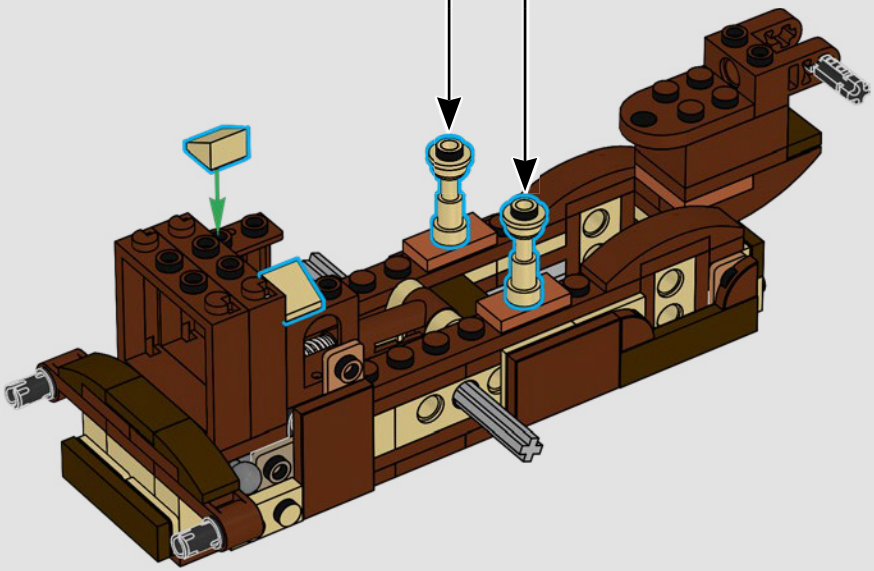
78

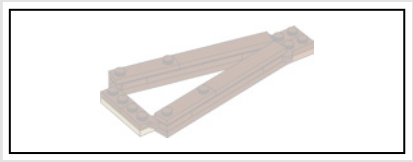


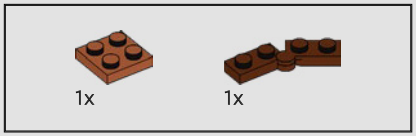


79

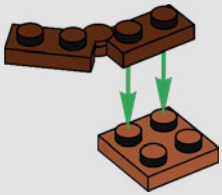


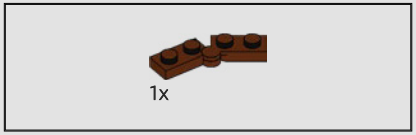




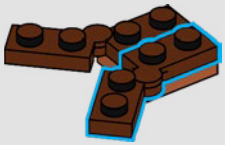


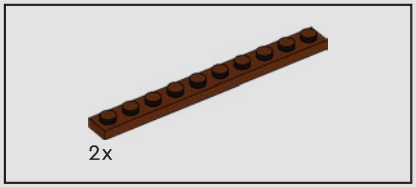
80



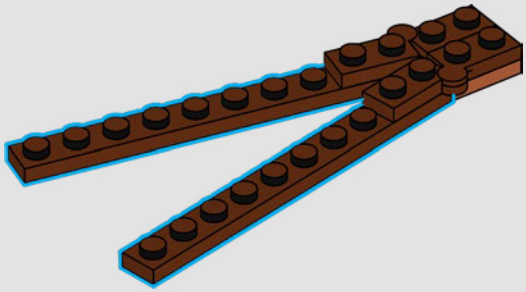


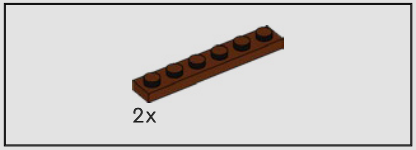
81



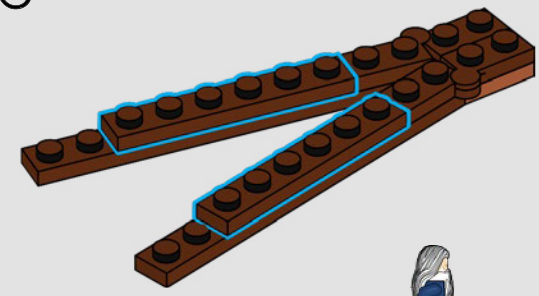


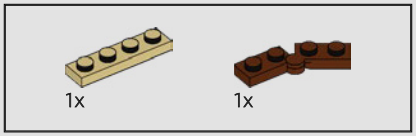
82



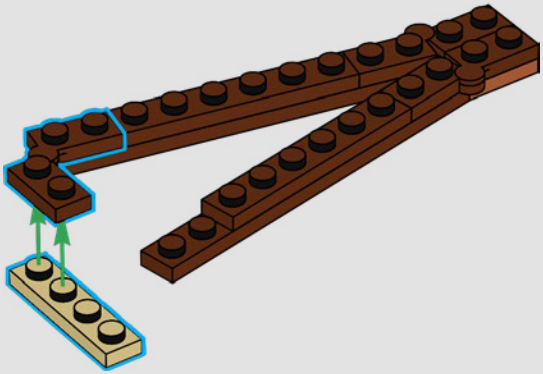


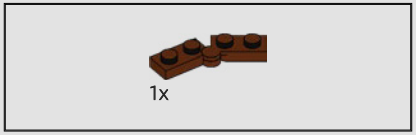
83



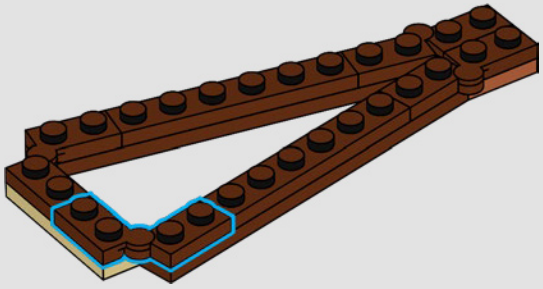


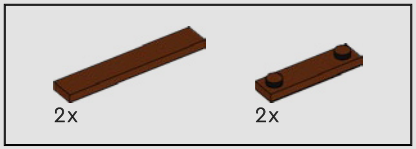
84



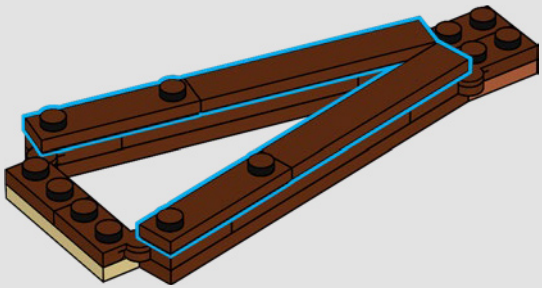


85

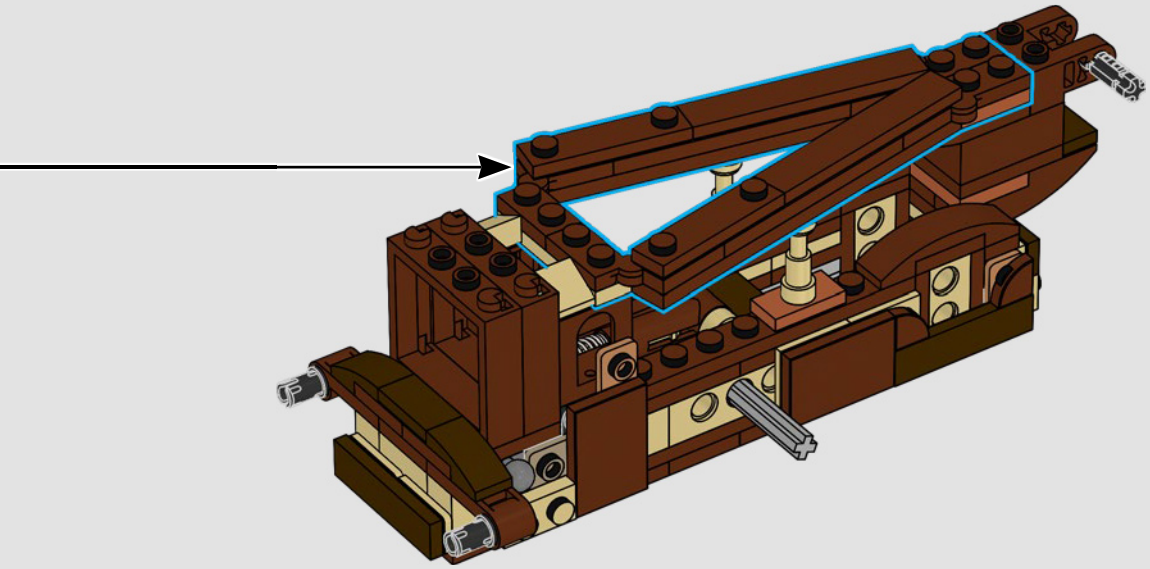


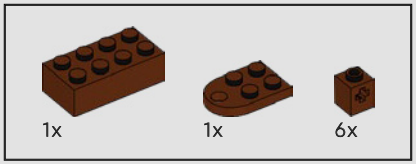


86

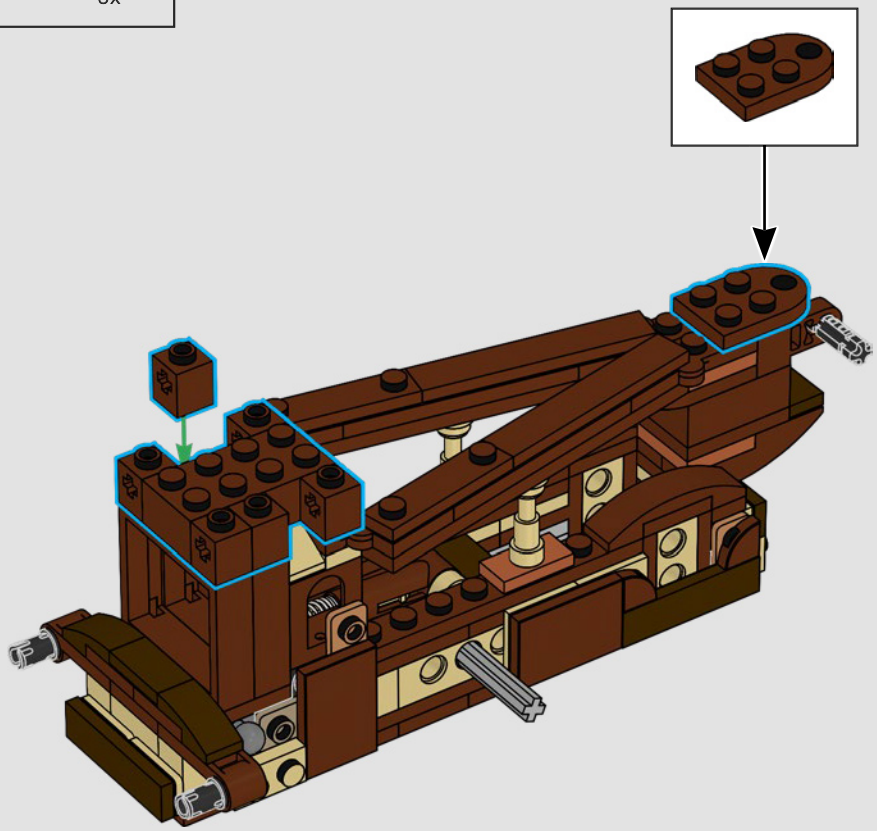


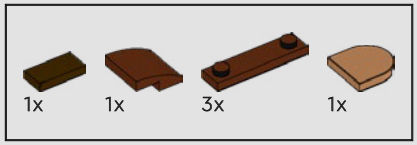
87



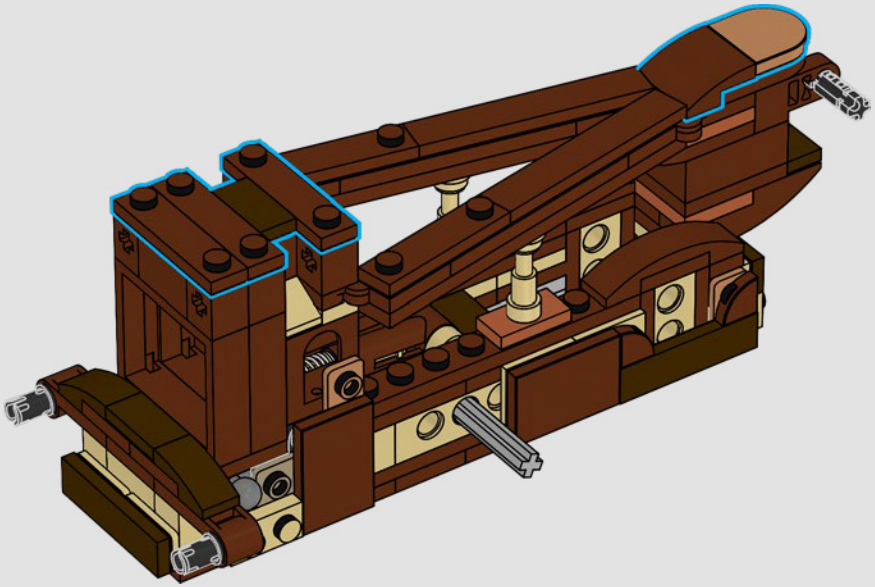


88

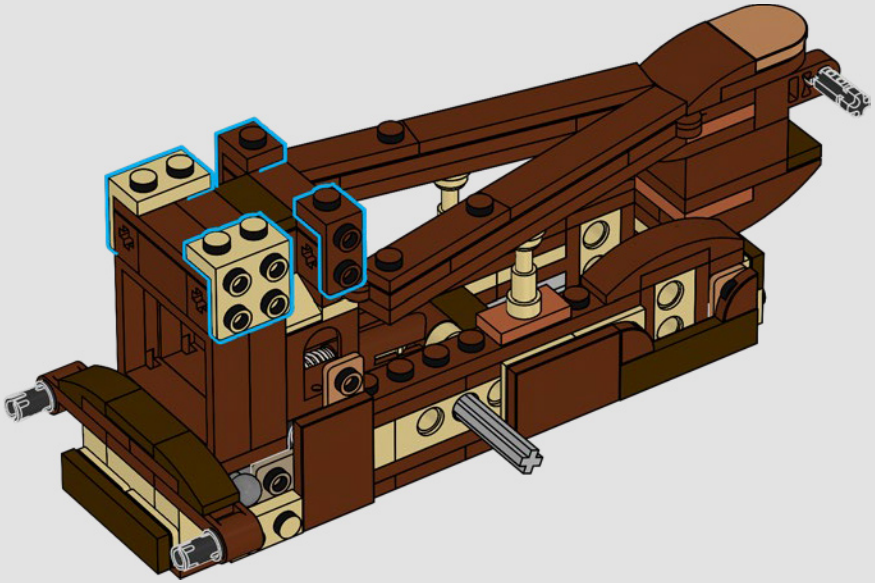


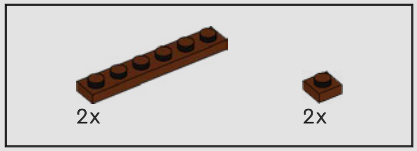


89

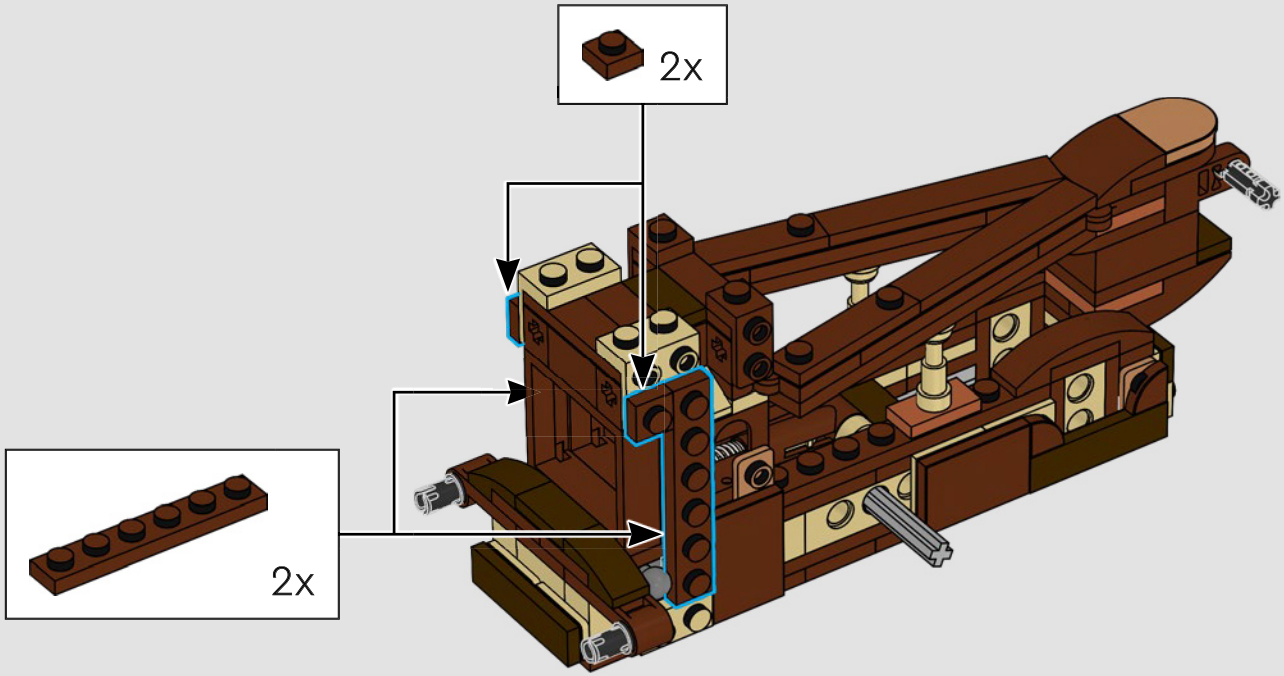


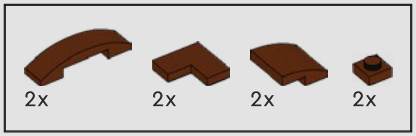
90



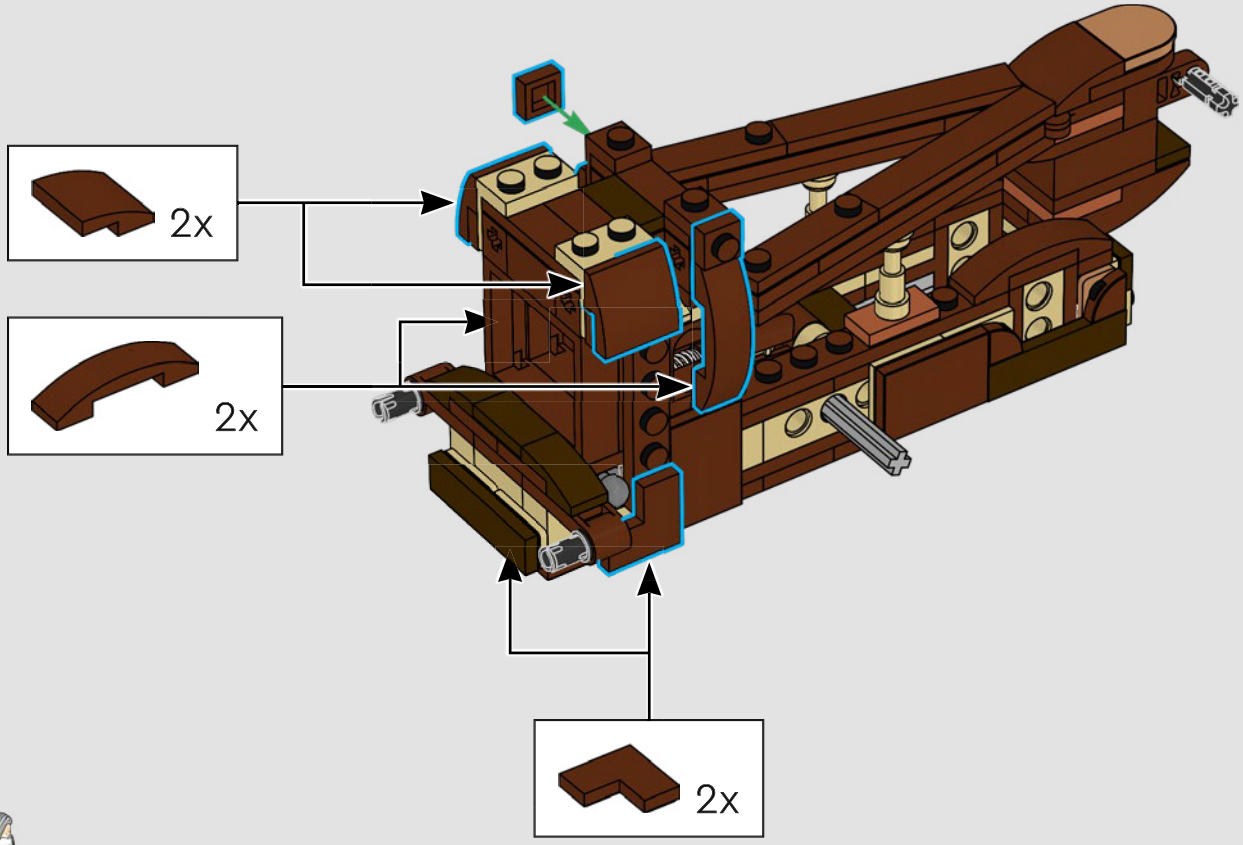


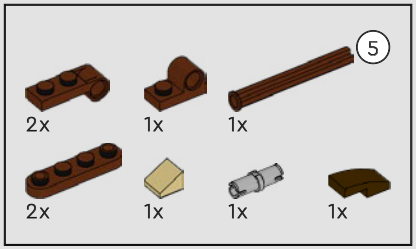
91

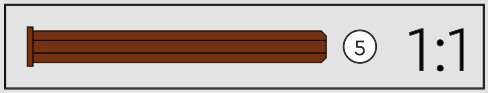




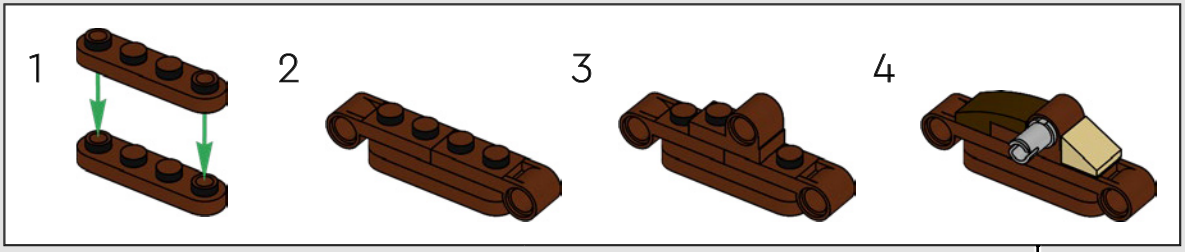
92

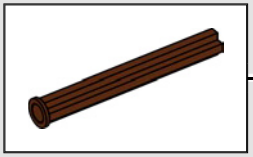


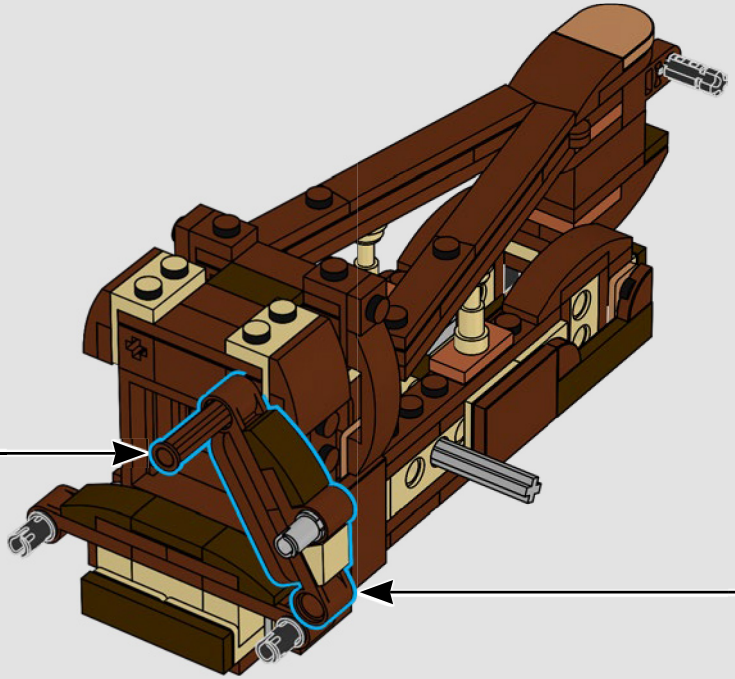


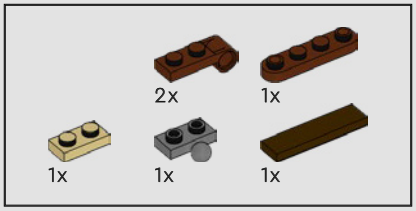


93

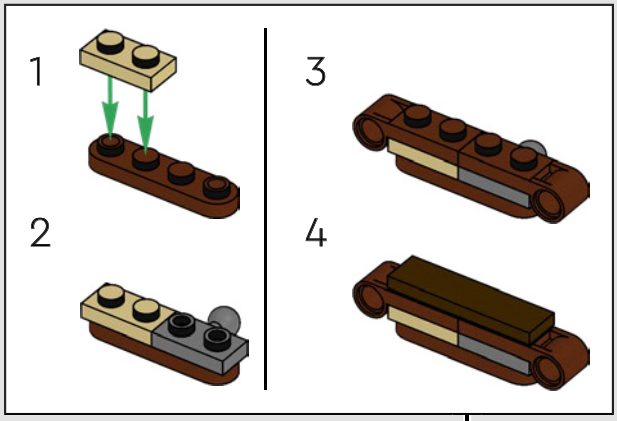


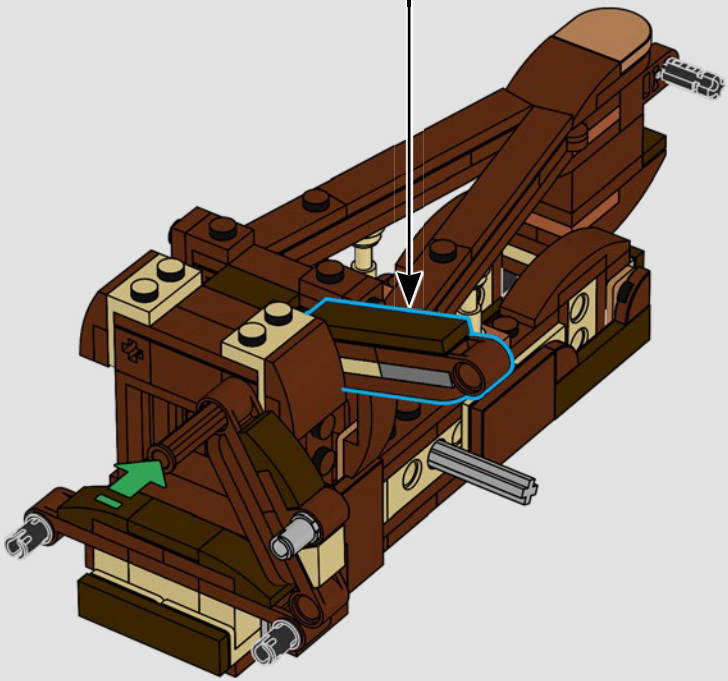


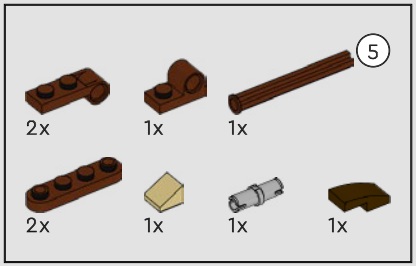


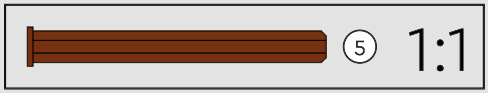


94

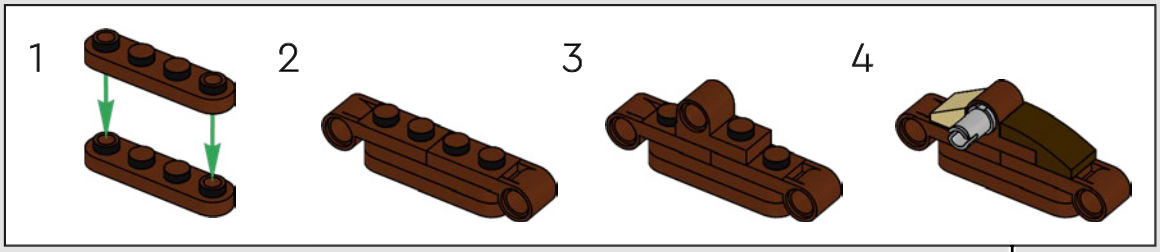


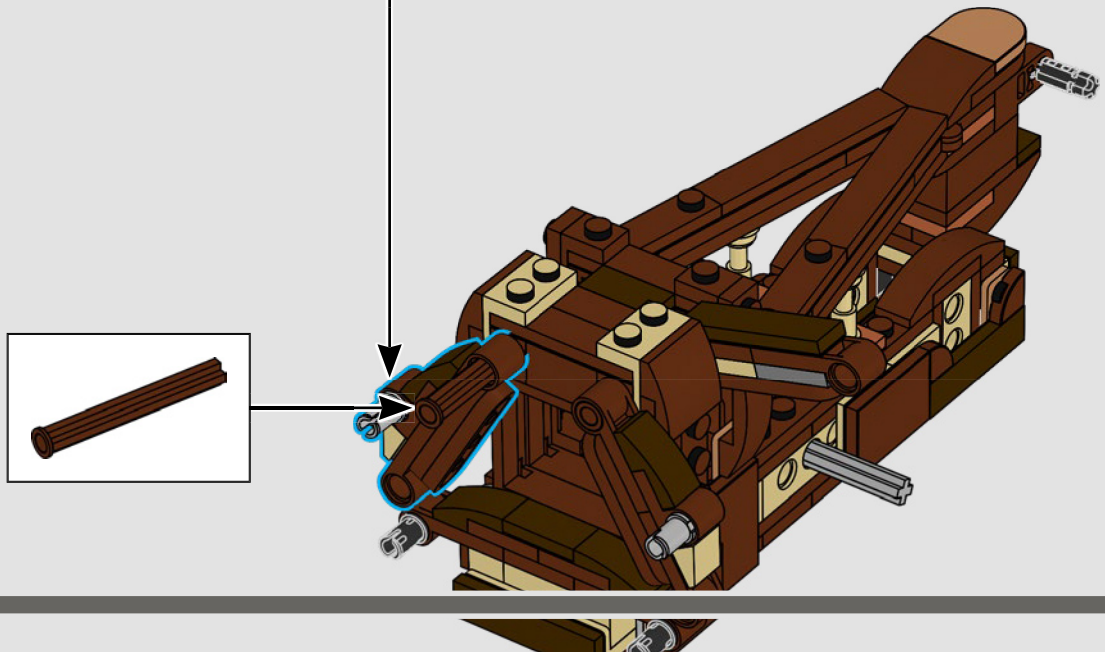


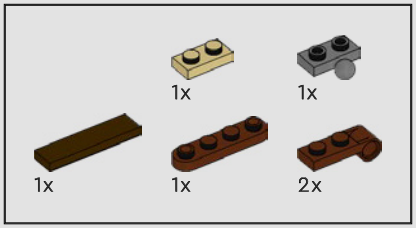




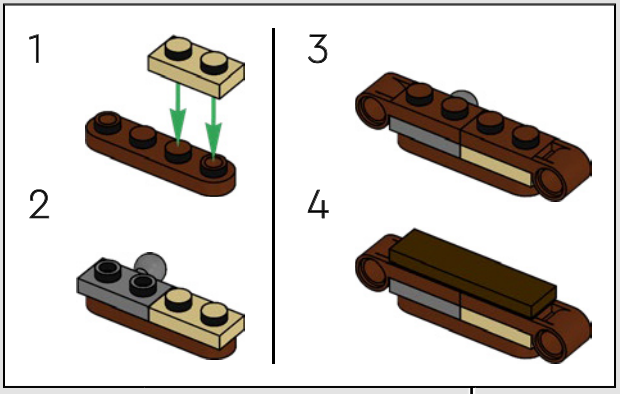
95

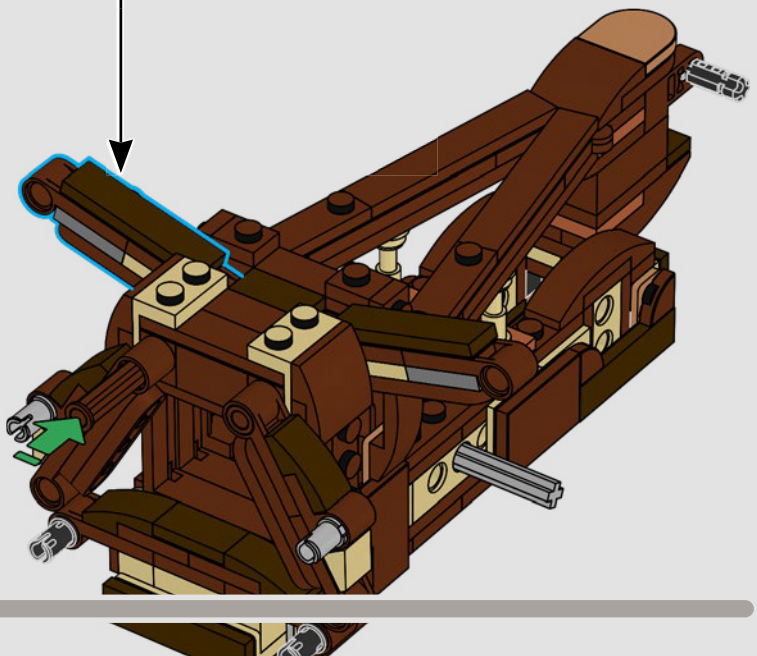


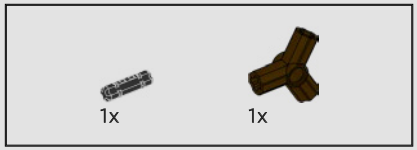




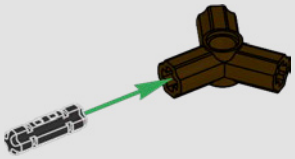
96



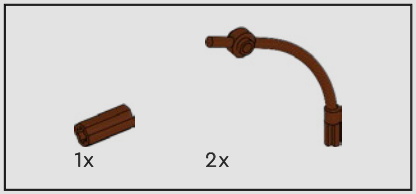




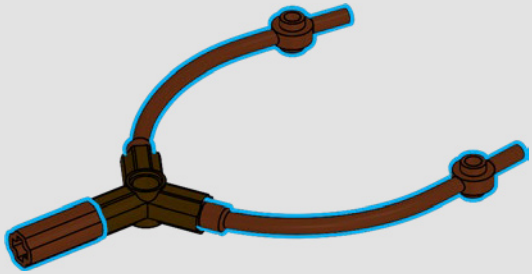
97



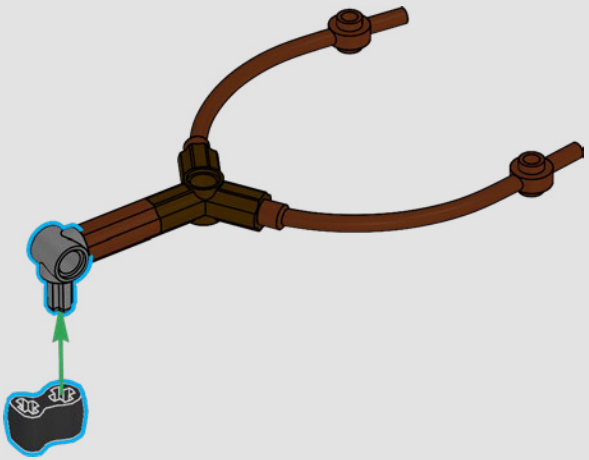
达芬奇的素描展示了不同的飞行器，其由飞行员利用各式各样的动力机械装置进行操作，有些由腿提供动力，有些由腿和手臂提供动力，有些甚至带有连接到飞行员头部的方向舵。

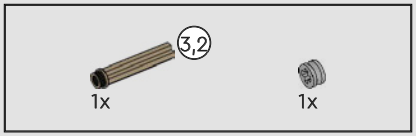


98

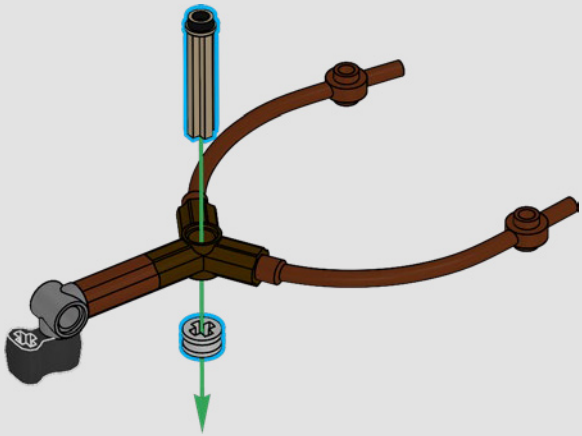


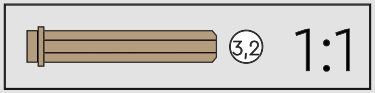
99



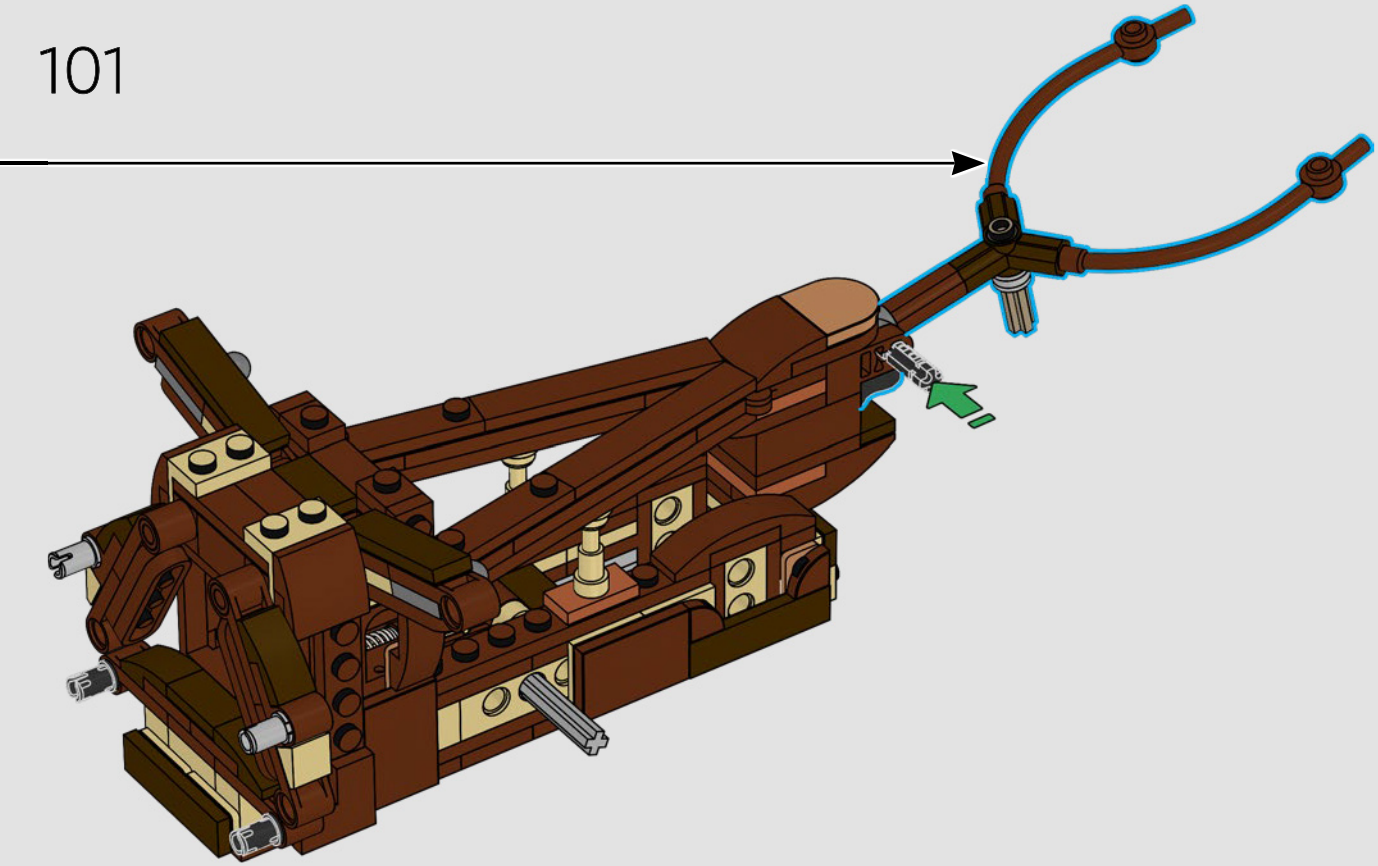


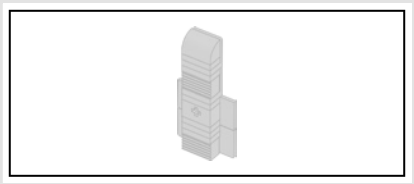
100

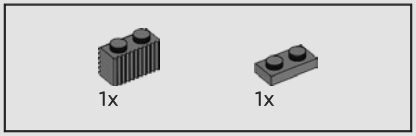




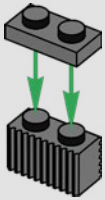
101

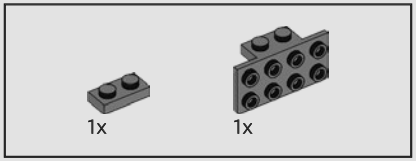




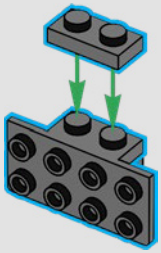


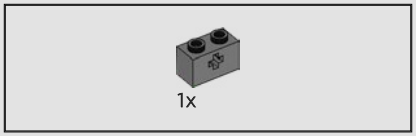
102



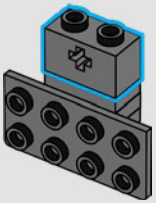


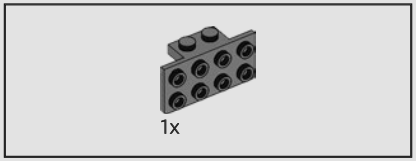
103



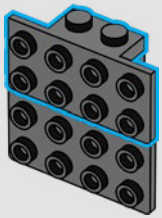


104



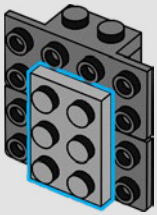


105



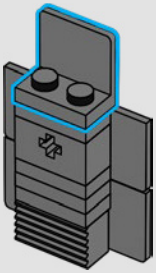
1x

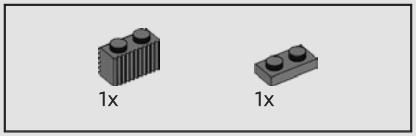
106



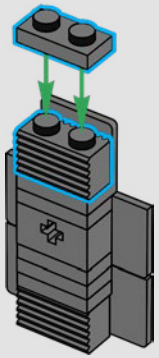
1x

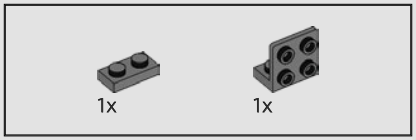
107



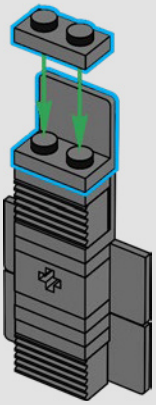


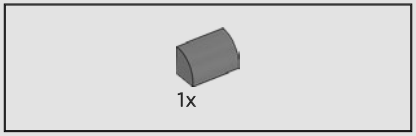
108



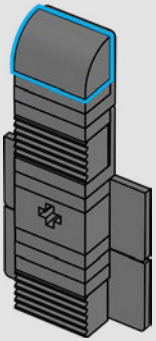


109

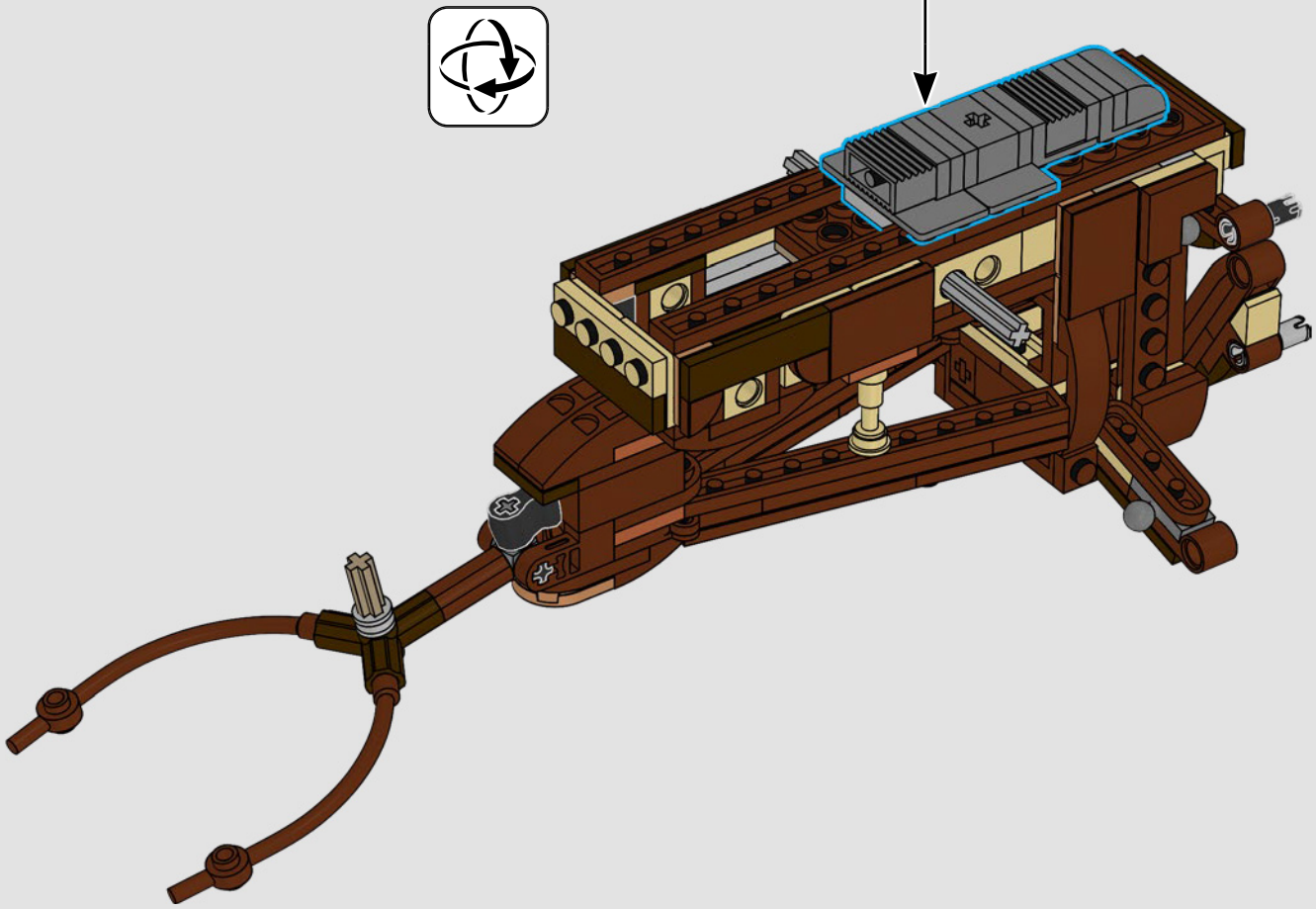




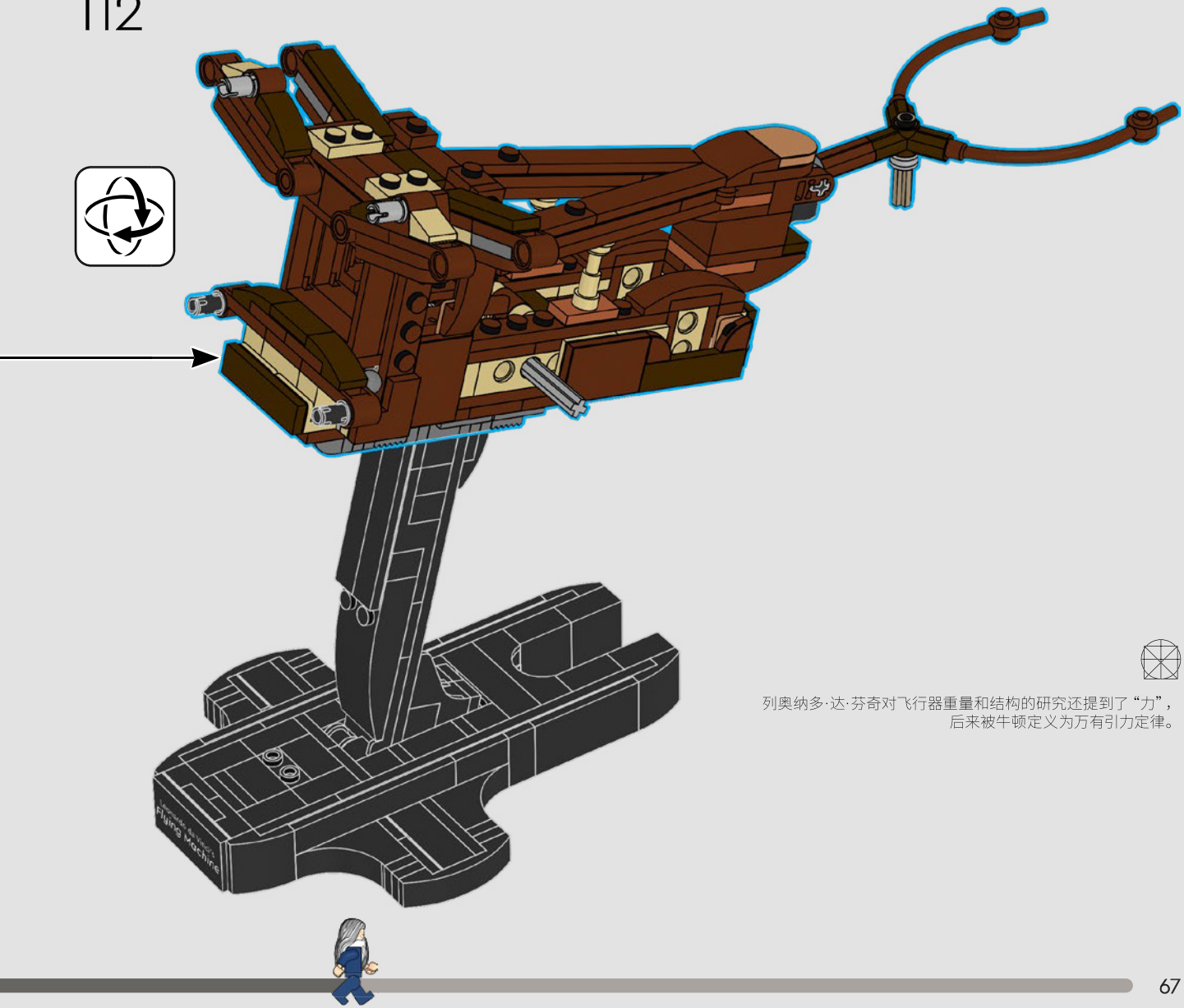
110



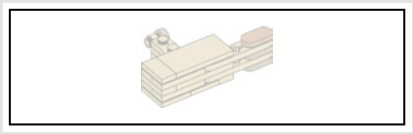
111

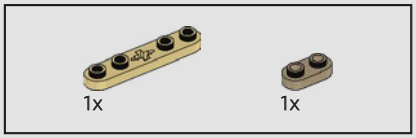


112

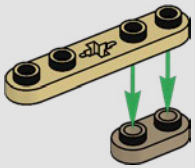


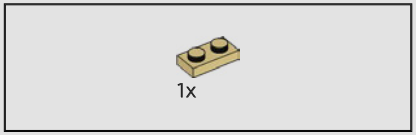
列奥纳多·达·芬奇对飞行器重量和结构的研究还提到了“力”，后来被牛顿定义为万有引力定律。



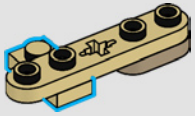


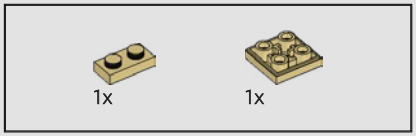
113



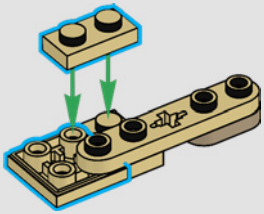


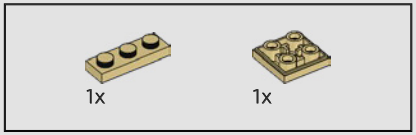
114



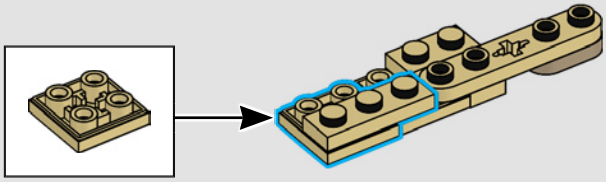


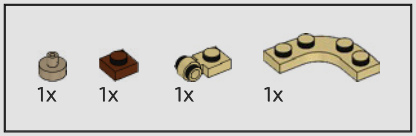
115



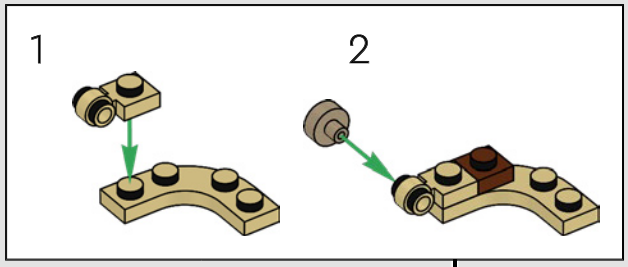


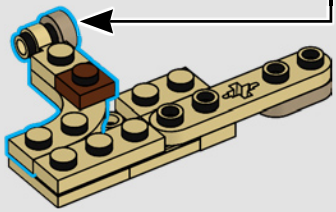
116

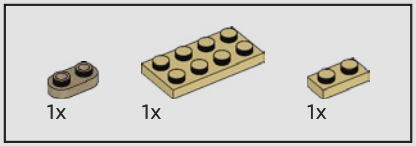




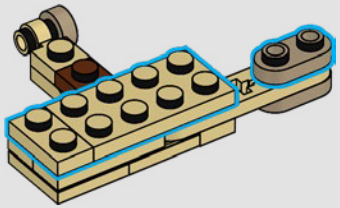
117

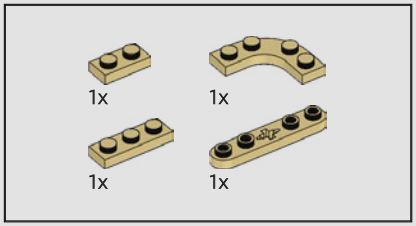




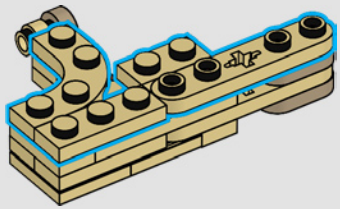


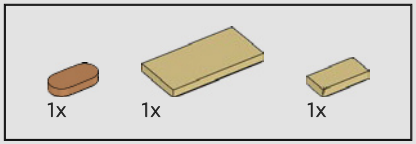
118



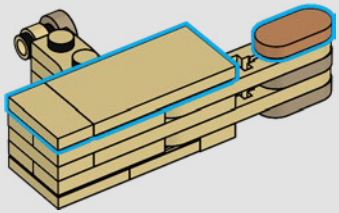


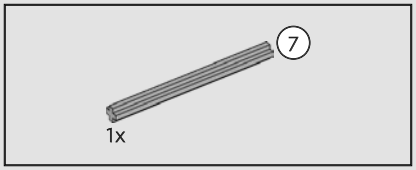
119

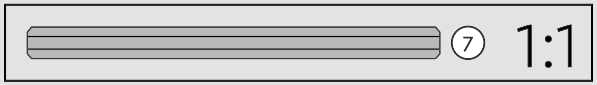




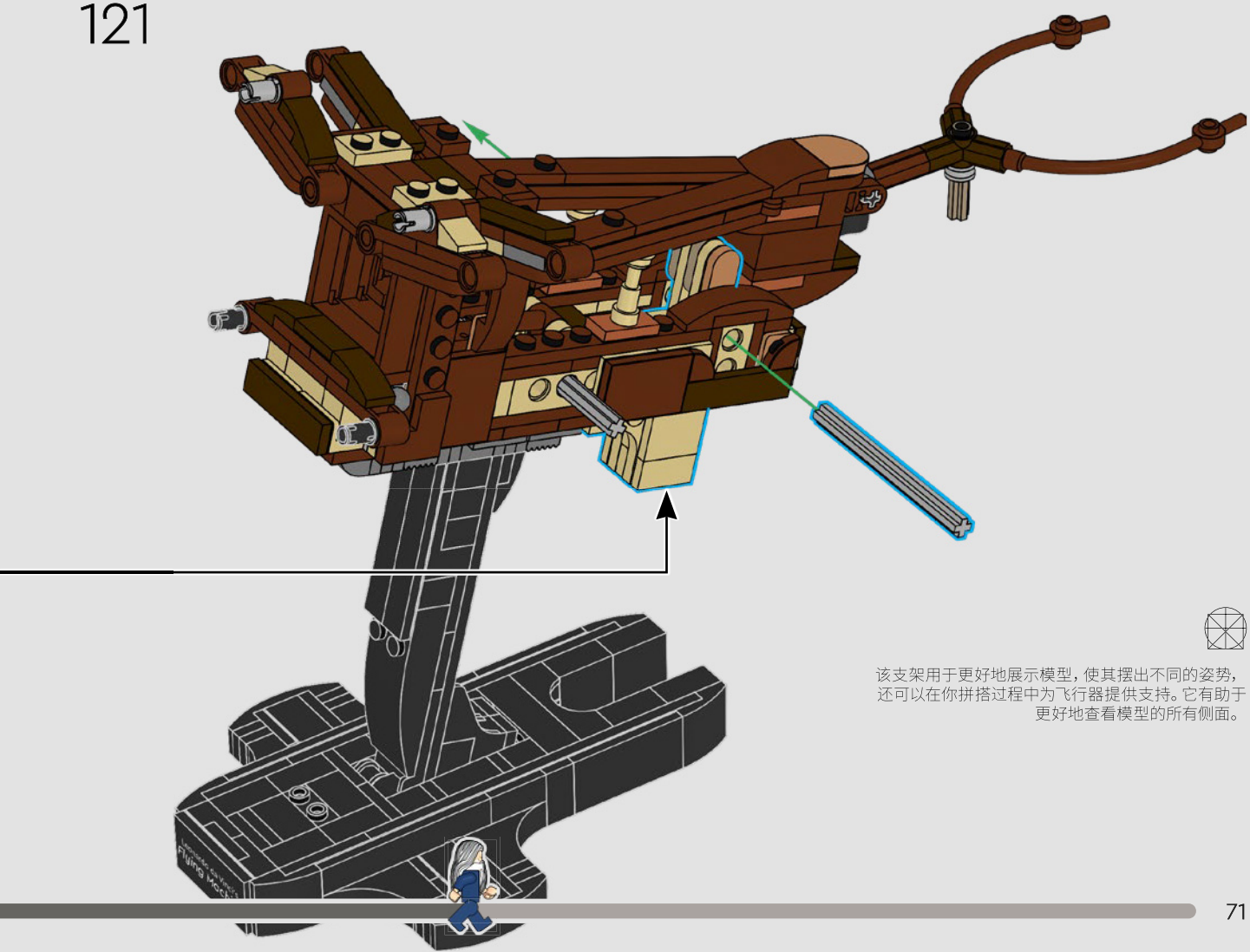
120



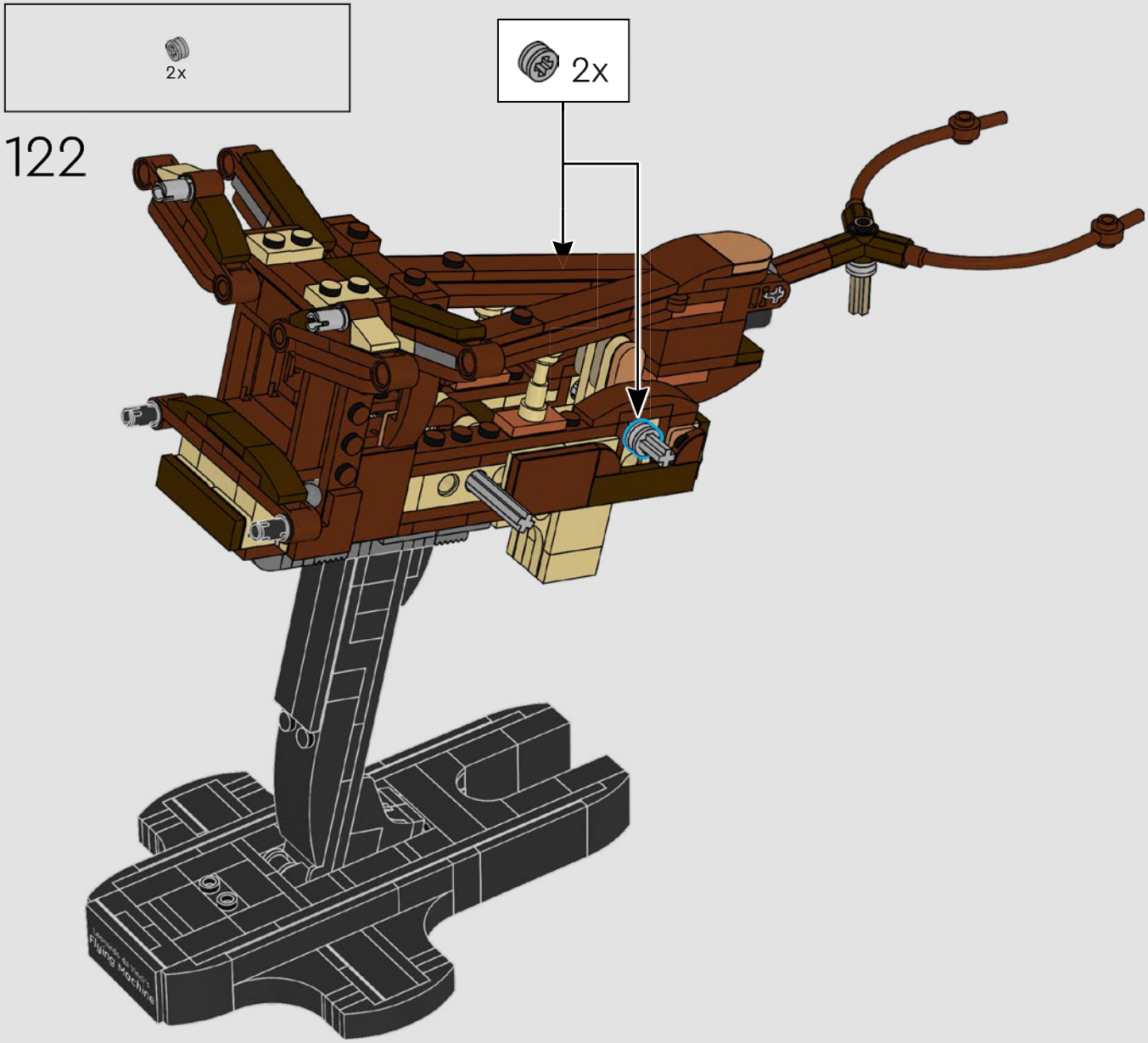


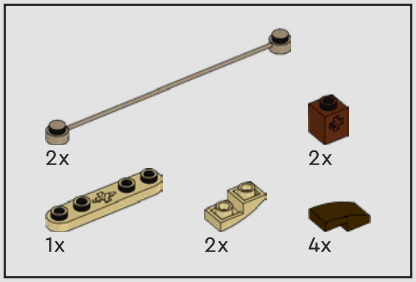


121



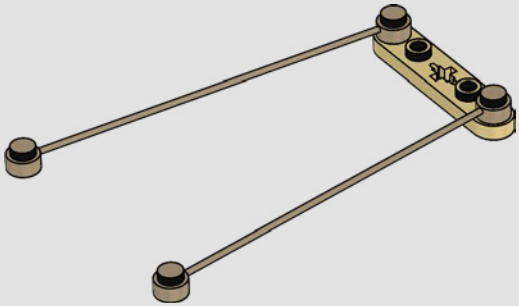
该支架用于更好地展示模型，使其摆出不同的姿势，还可以在你拼搭过程中为飞行器提供支持。它有助于更好地查看模型的所有侧面。


2x
2x
122
Flying Machine

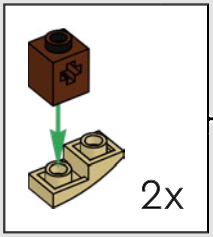


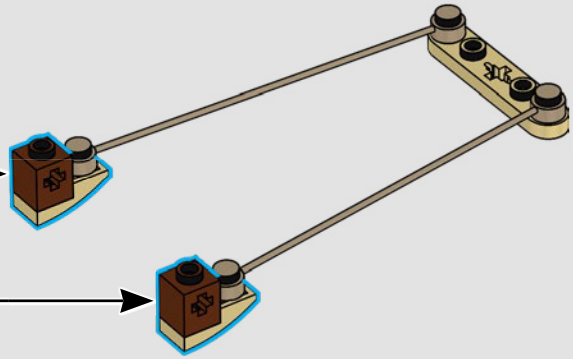
123

1

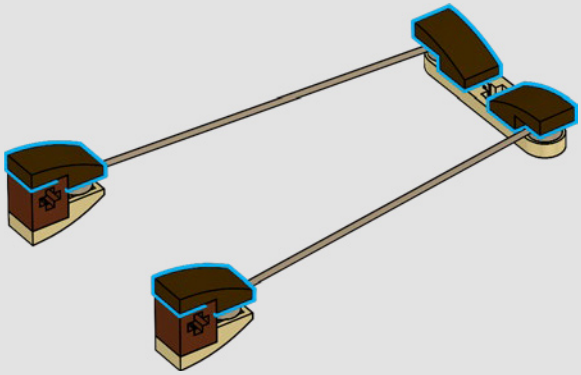


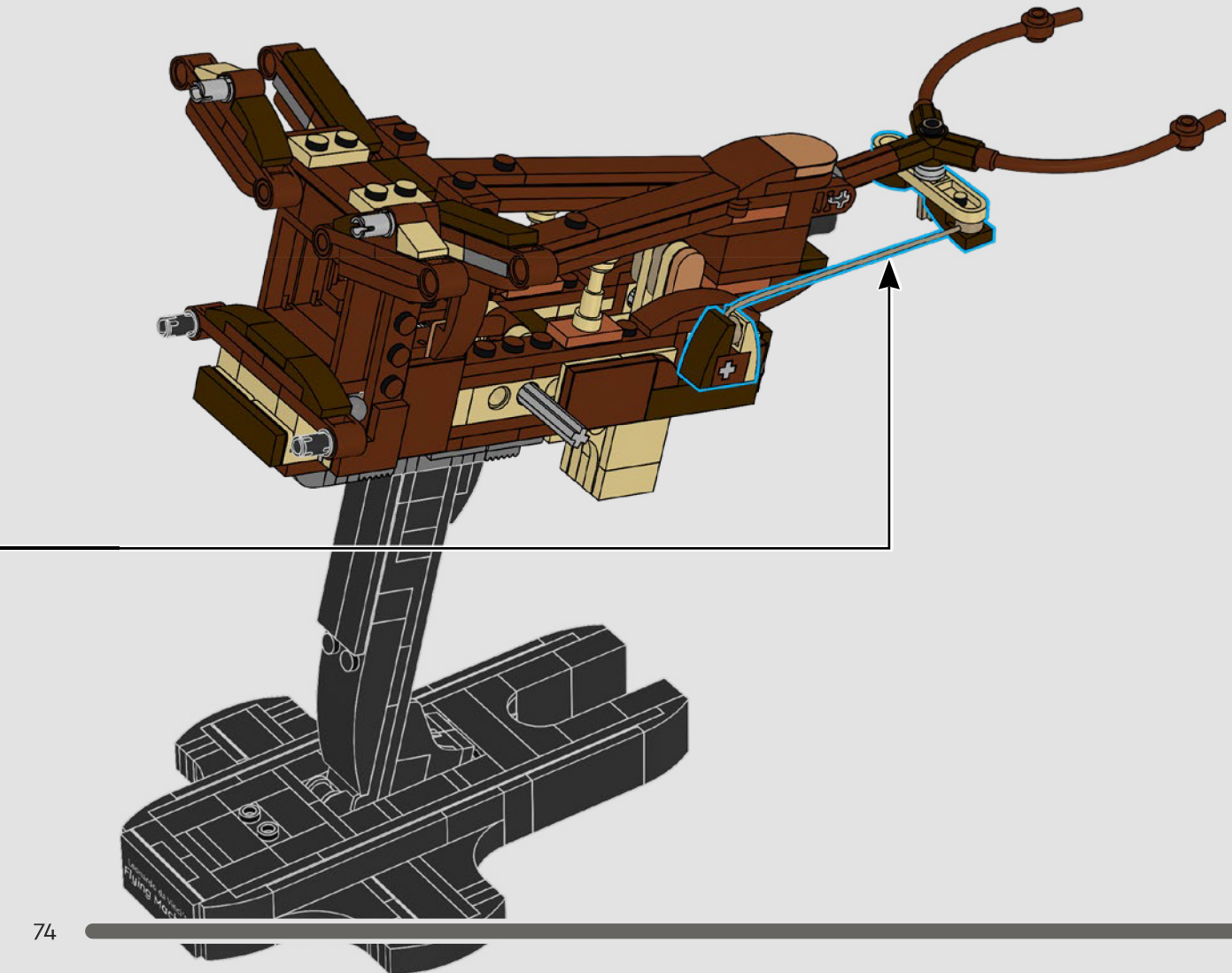
2





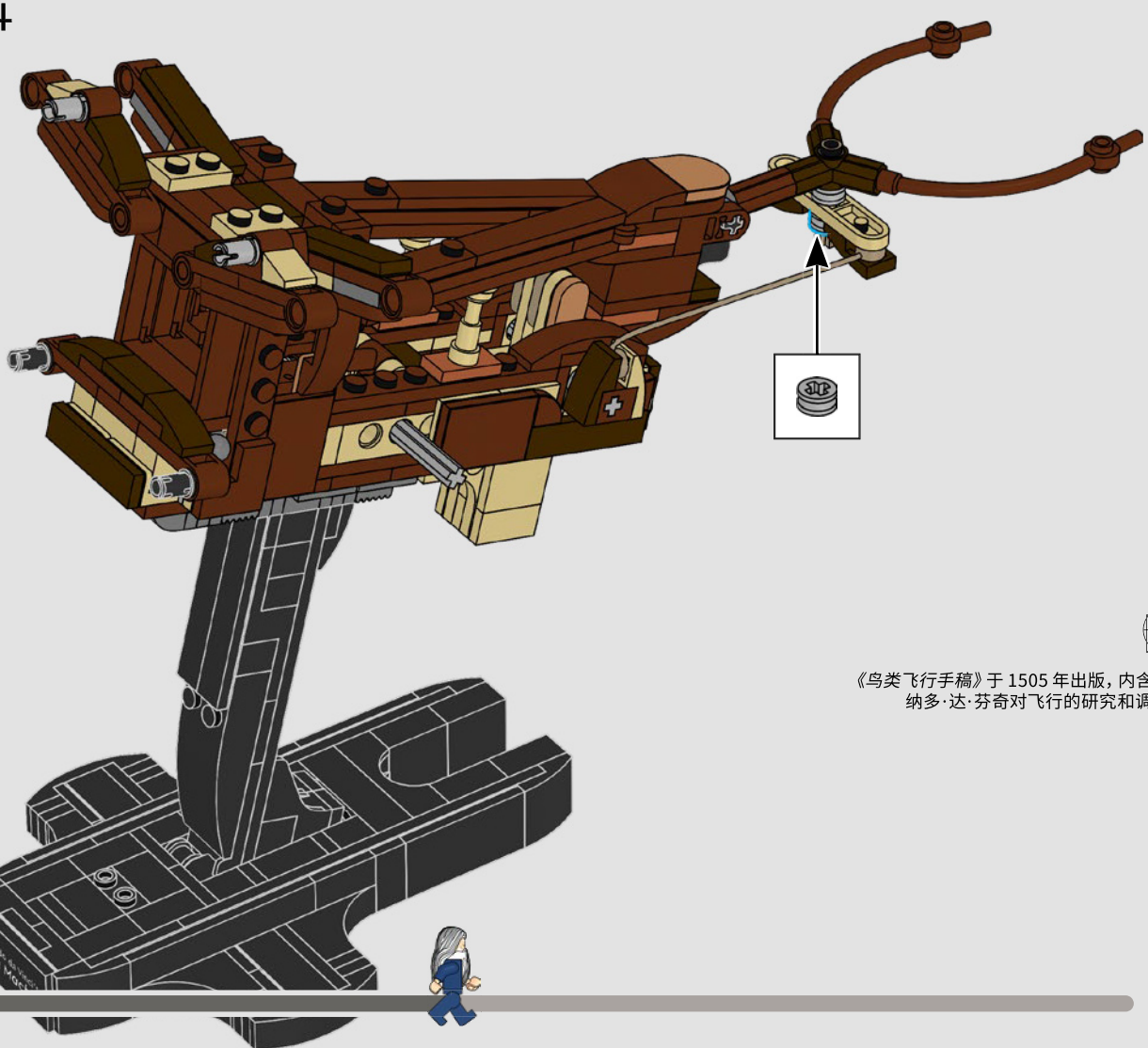
3



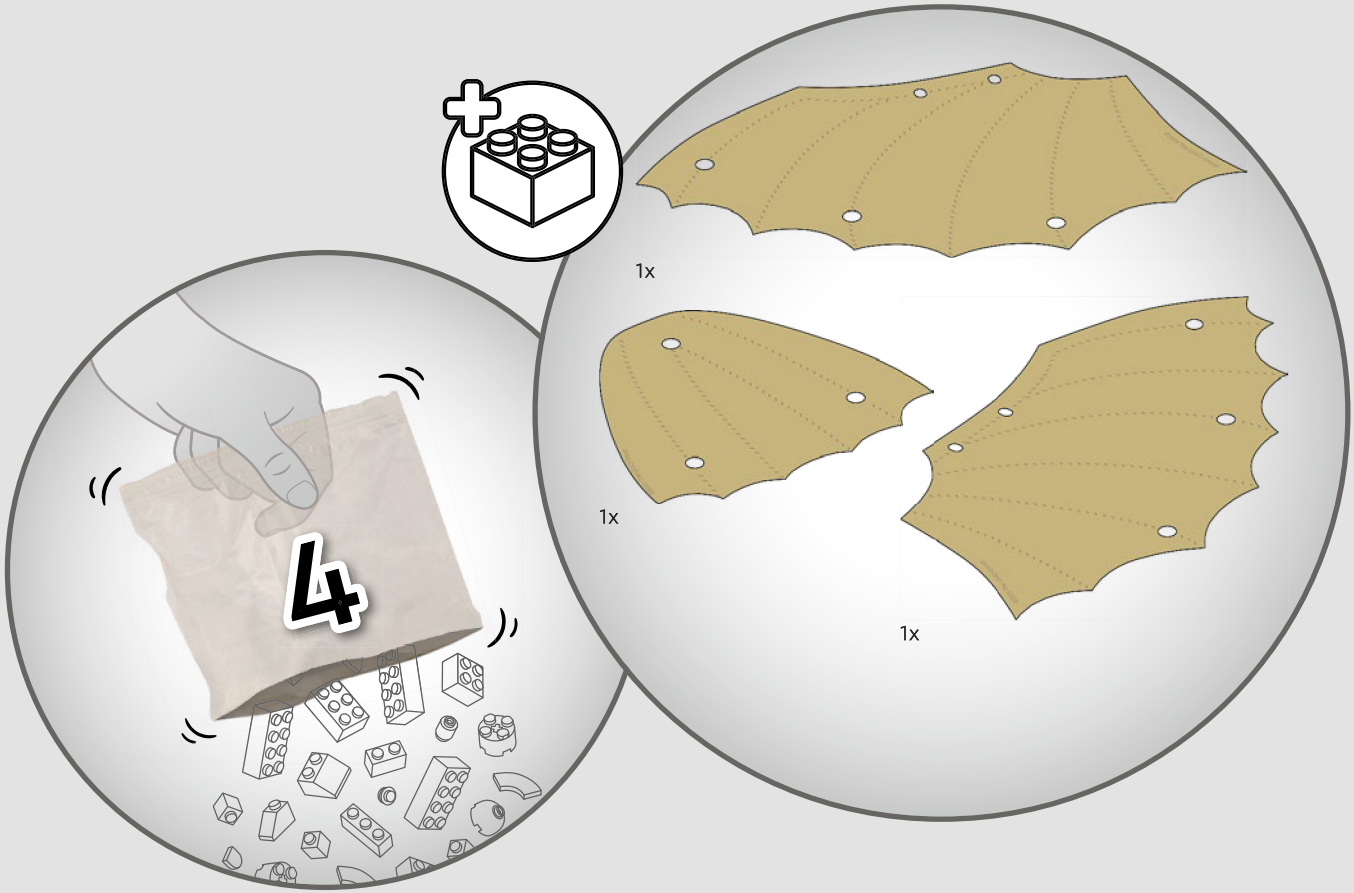


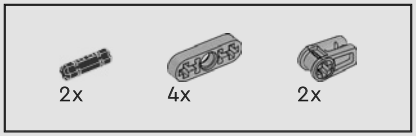
1x

124

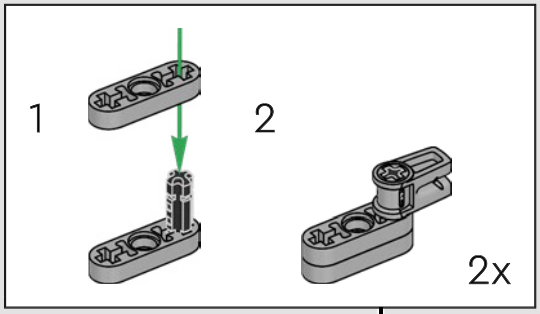


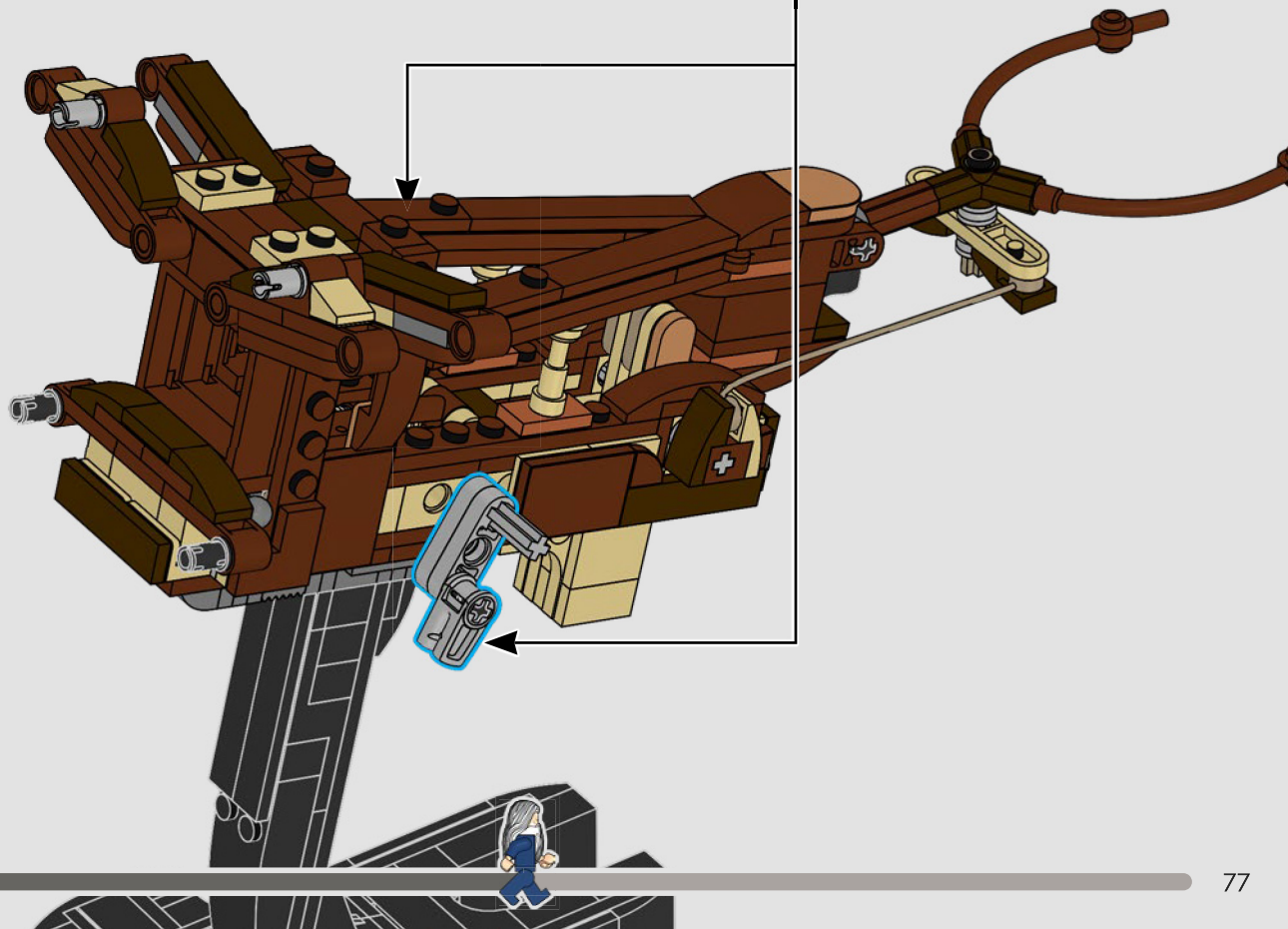
《鸟类飞行手稿》于 1505 年出版，内含列奥纳多·达·芬奇对飞行的研究和调查。

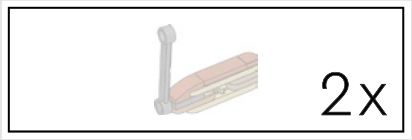

4
1x
1x
1x

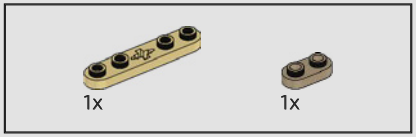


125

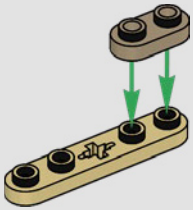


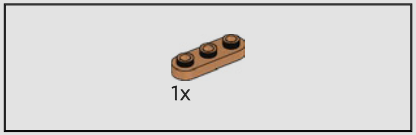




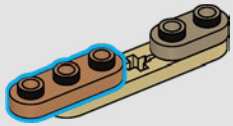


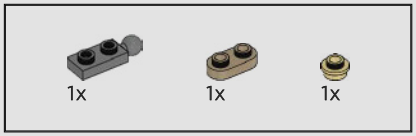
126



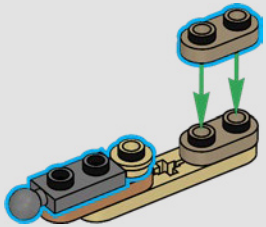


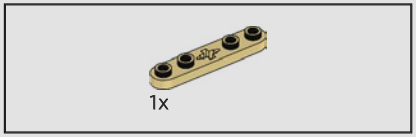
127



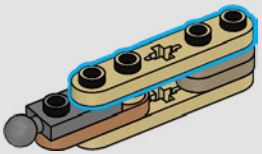


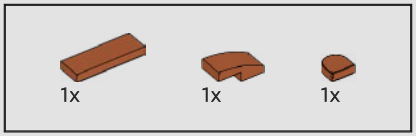
128



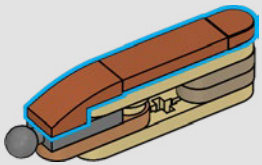


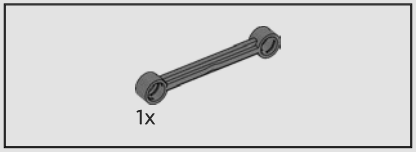
129



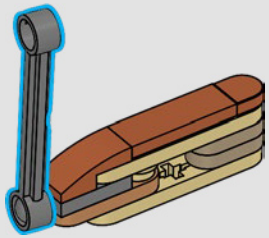


130

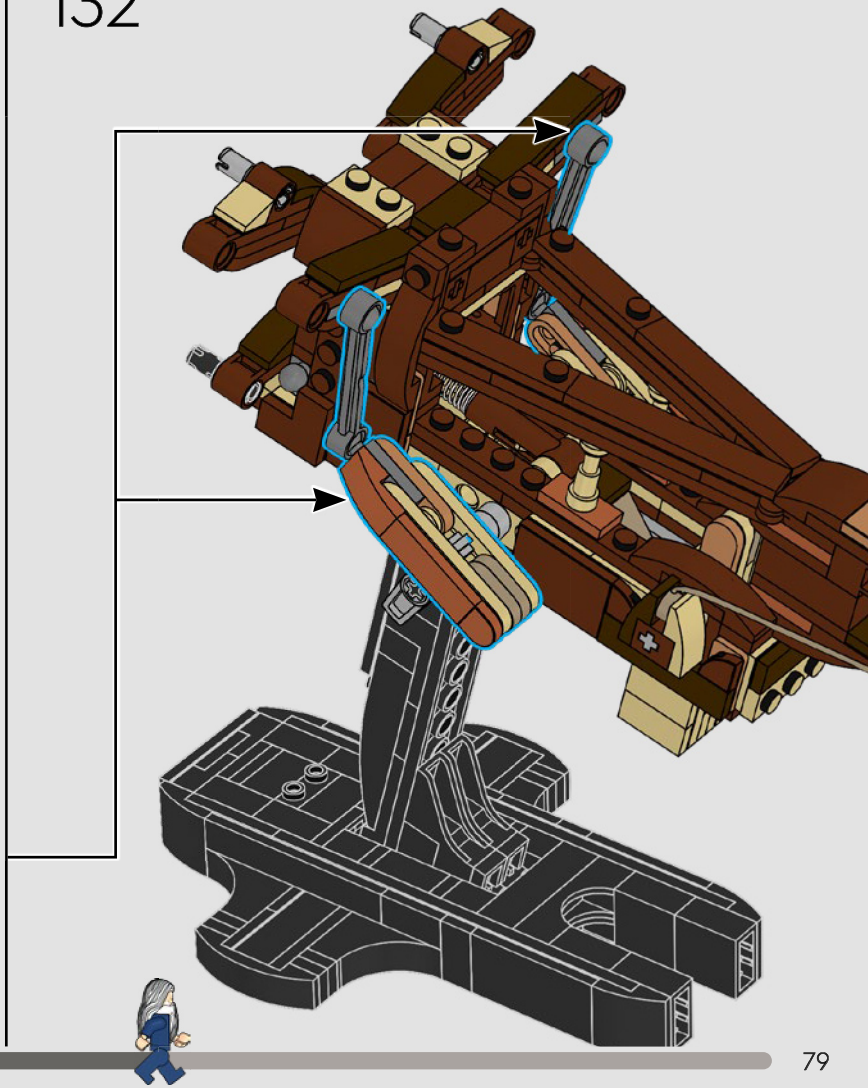


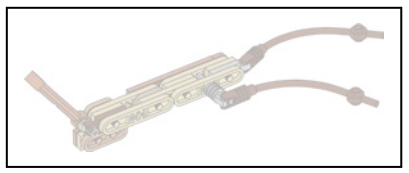


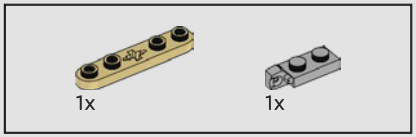
131



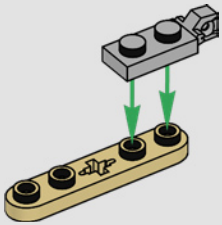
132

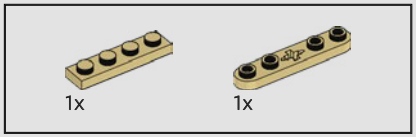




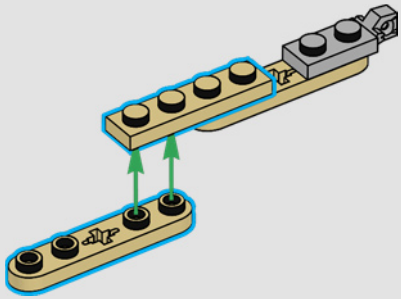


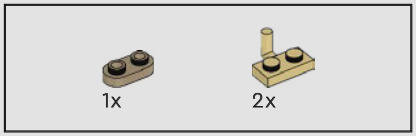
133



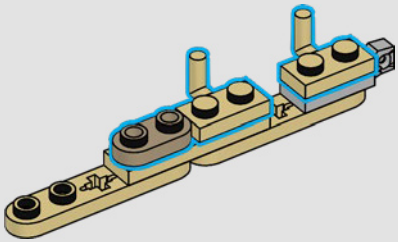


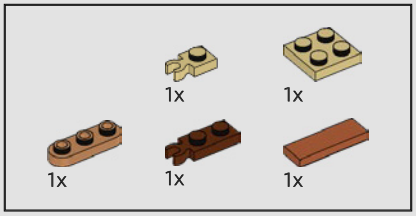
134



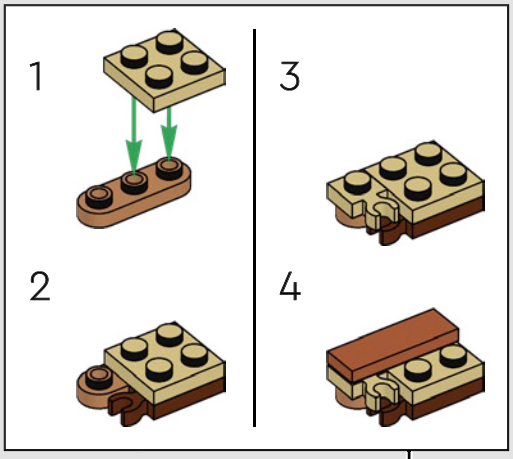


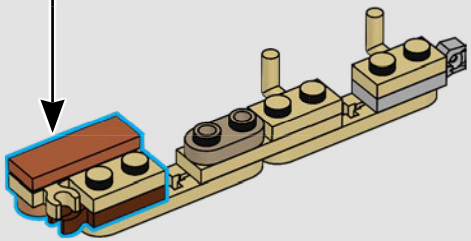
135

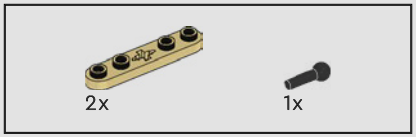




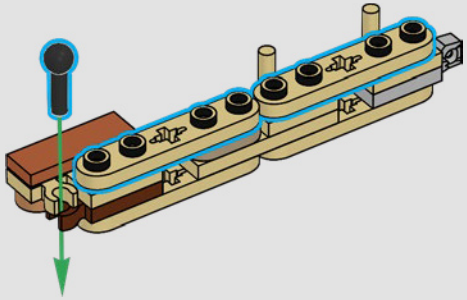
136

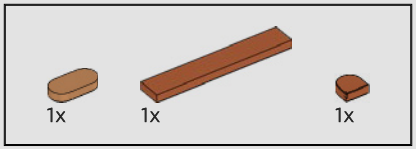




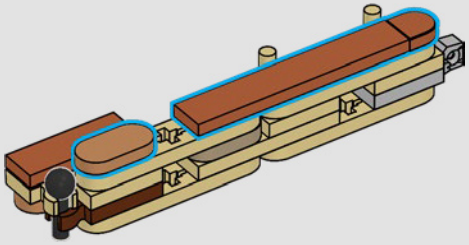


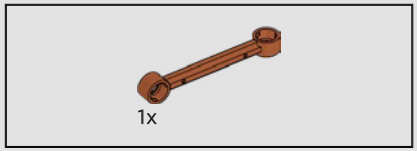
137



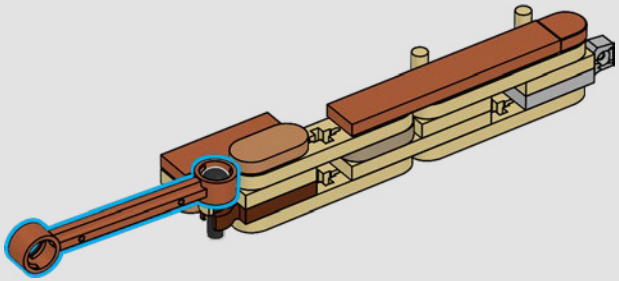


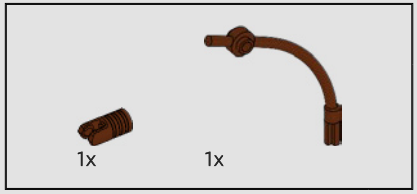
138



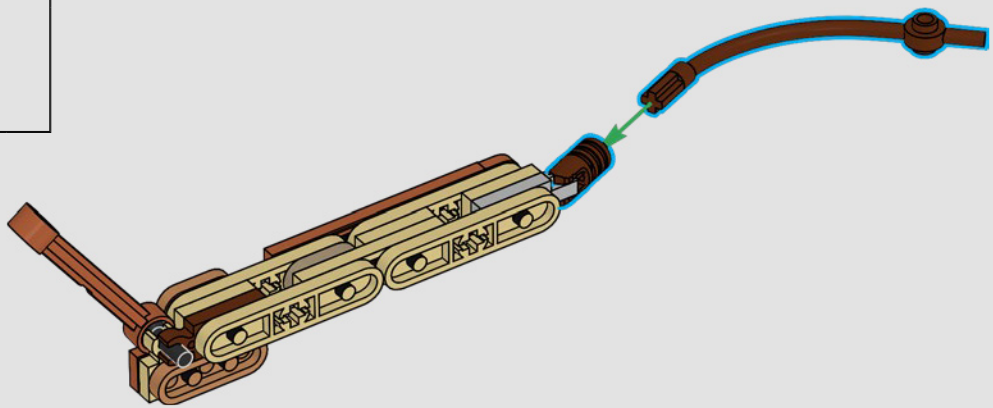


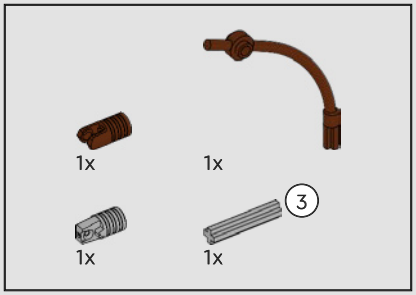
139

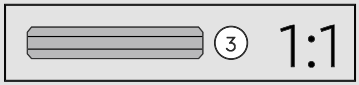




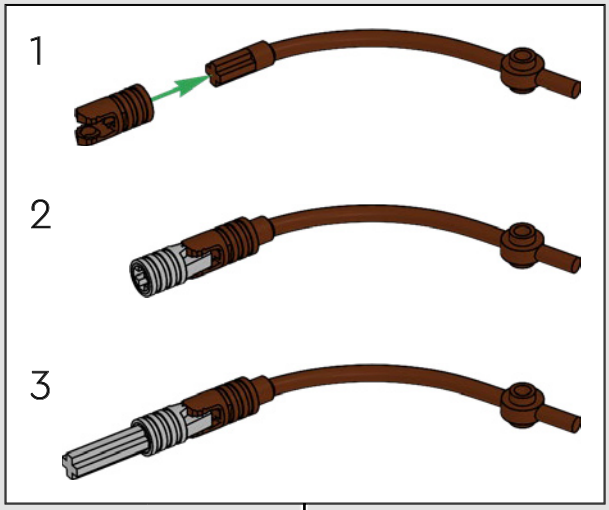
140

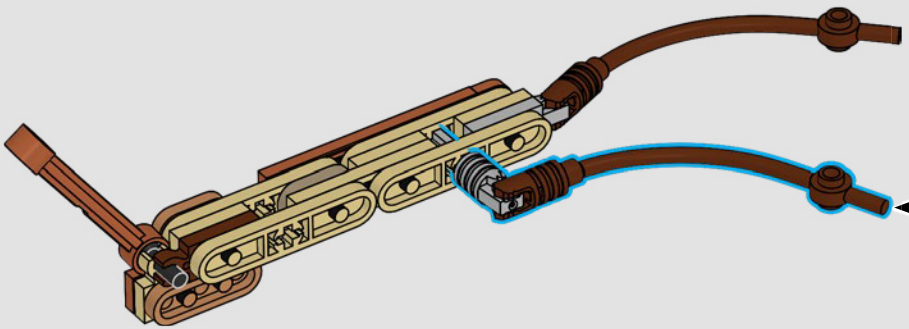


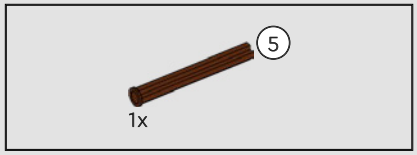


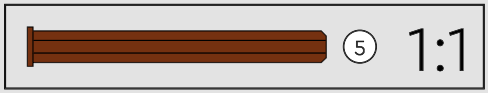


141

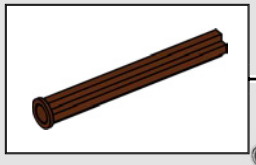


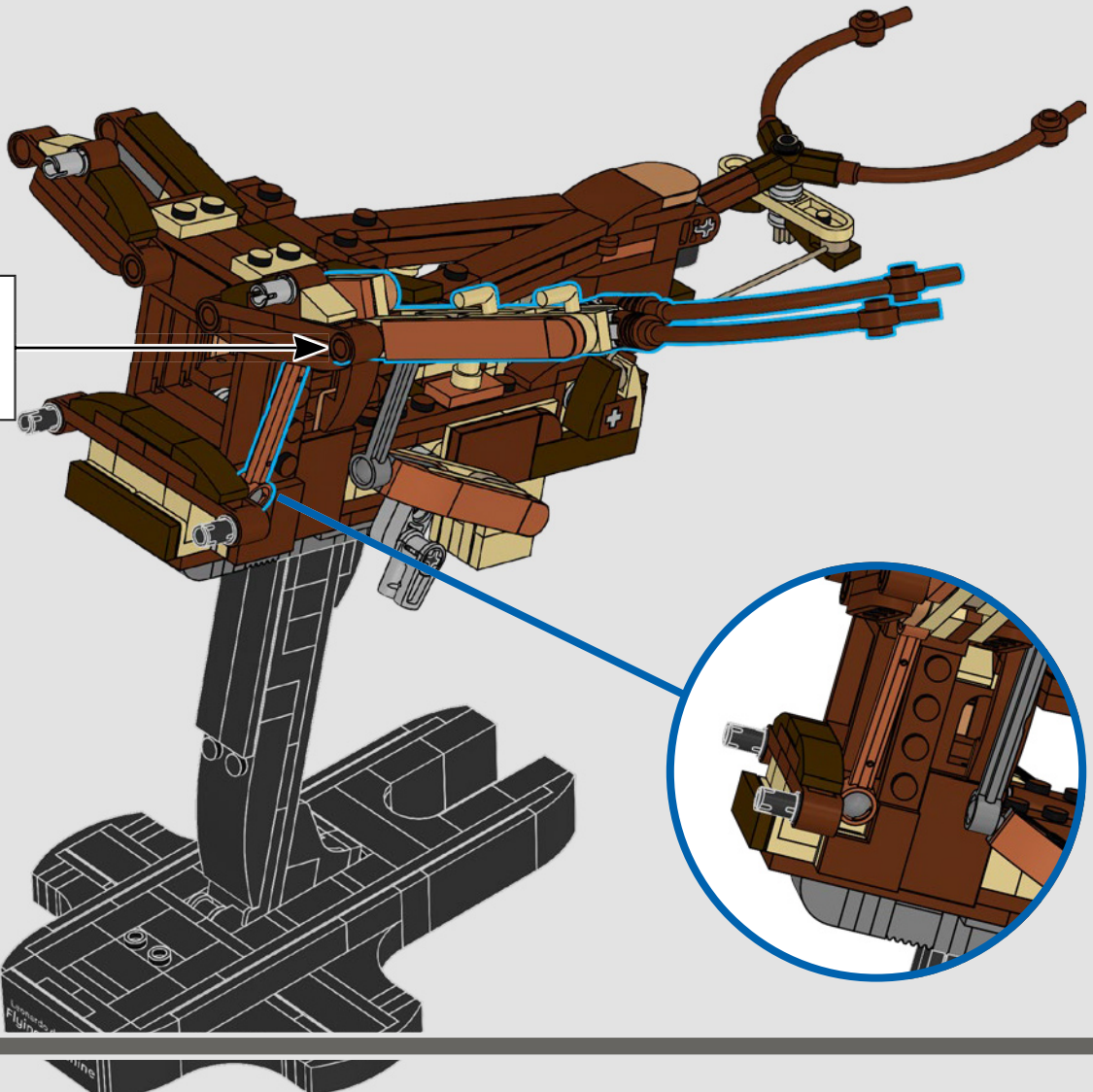


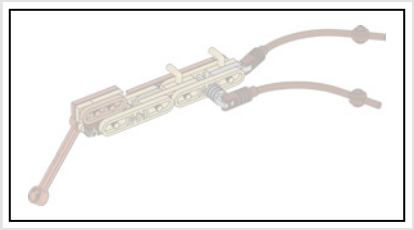


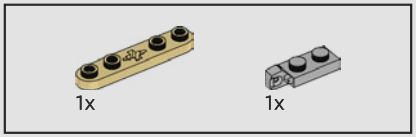


142

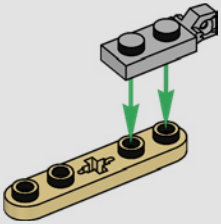


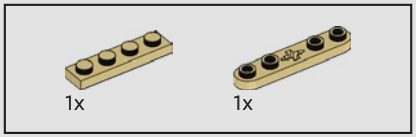




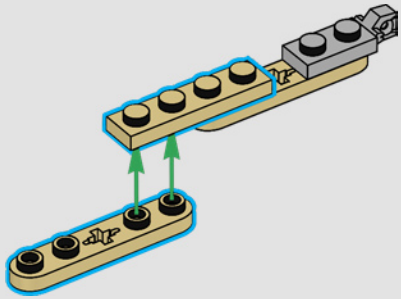


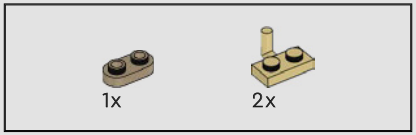
143



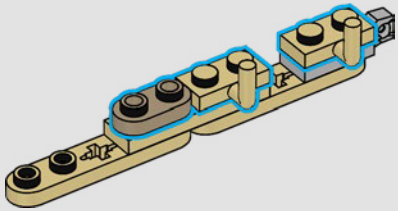


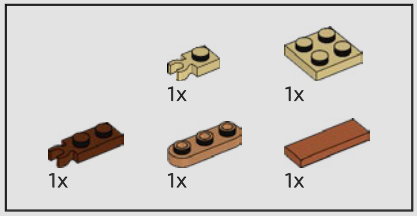
144



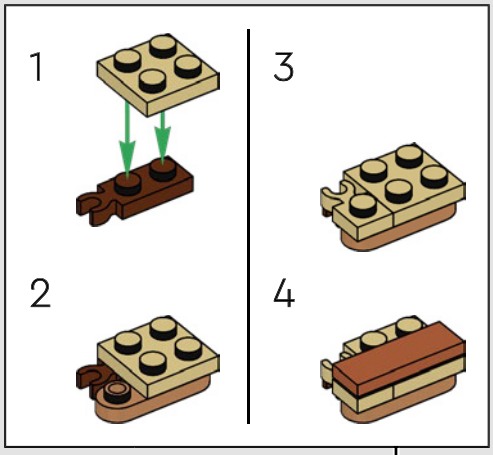


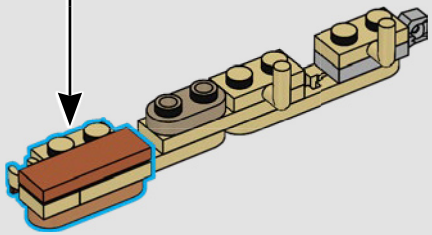
145

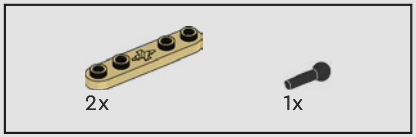




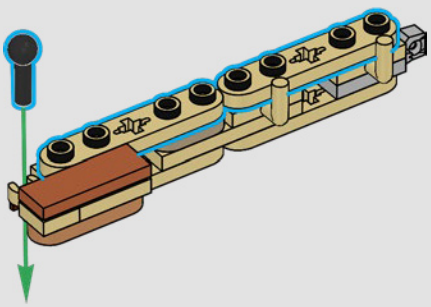
146

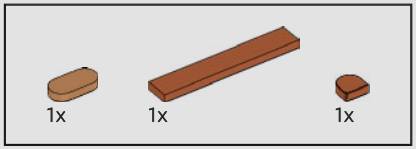




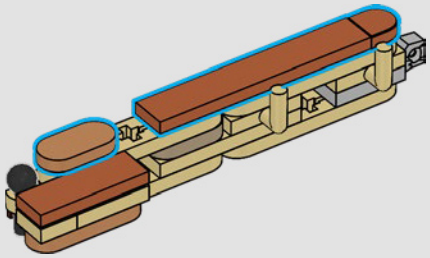


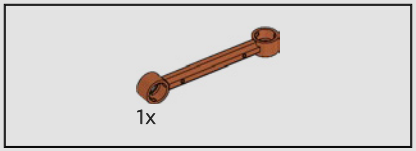
147



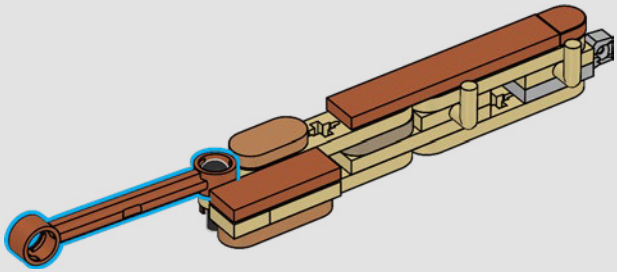


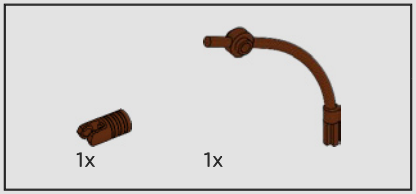
148



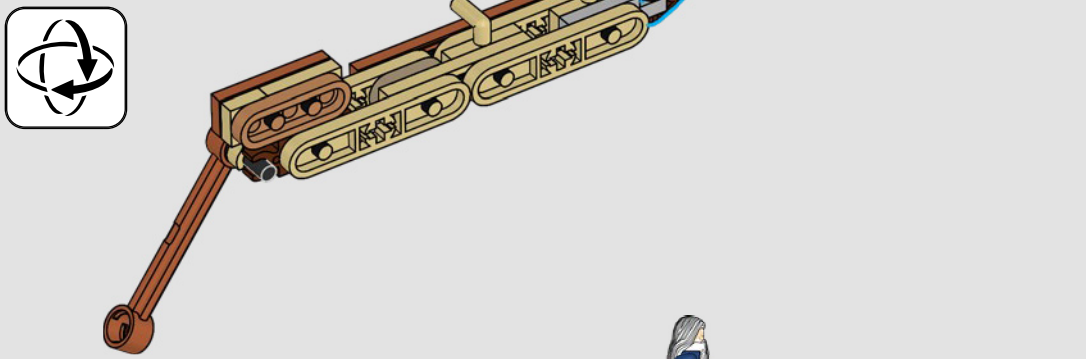


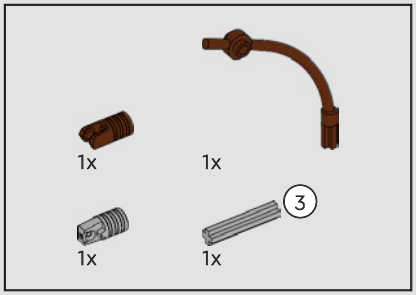
149



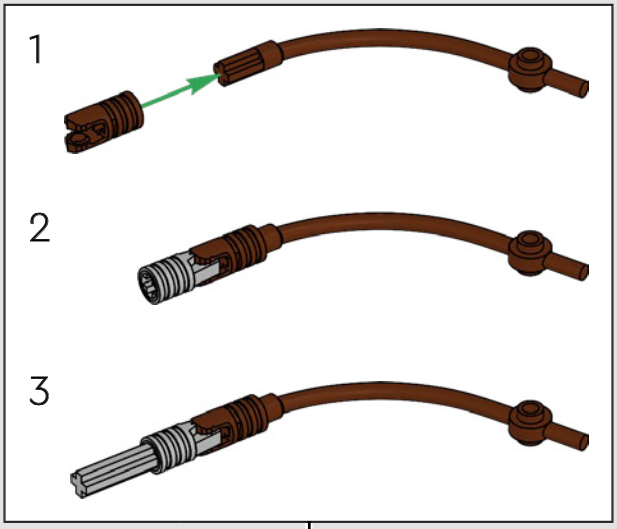


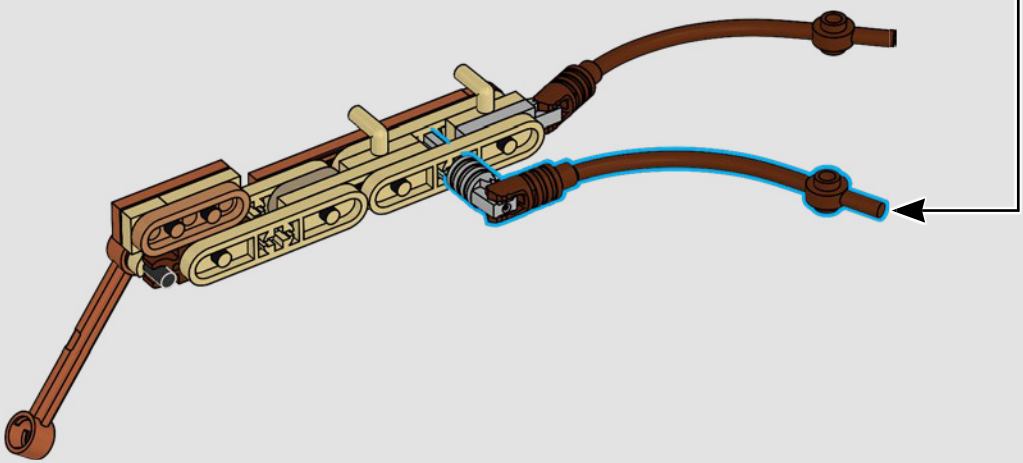
150

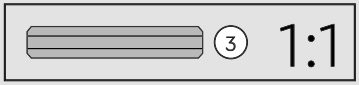


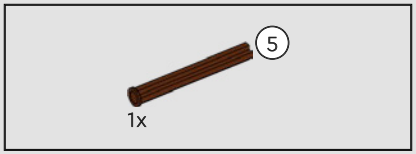


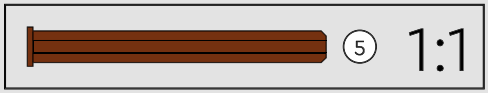
151



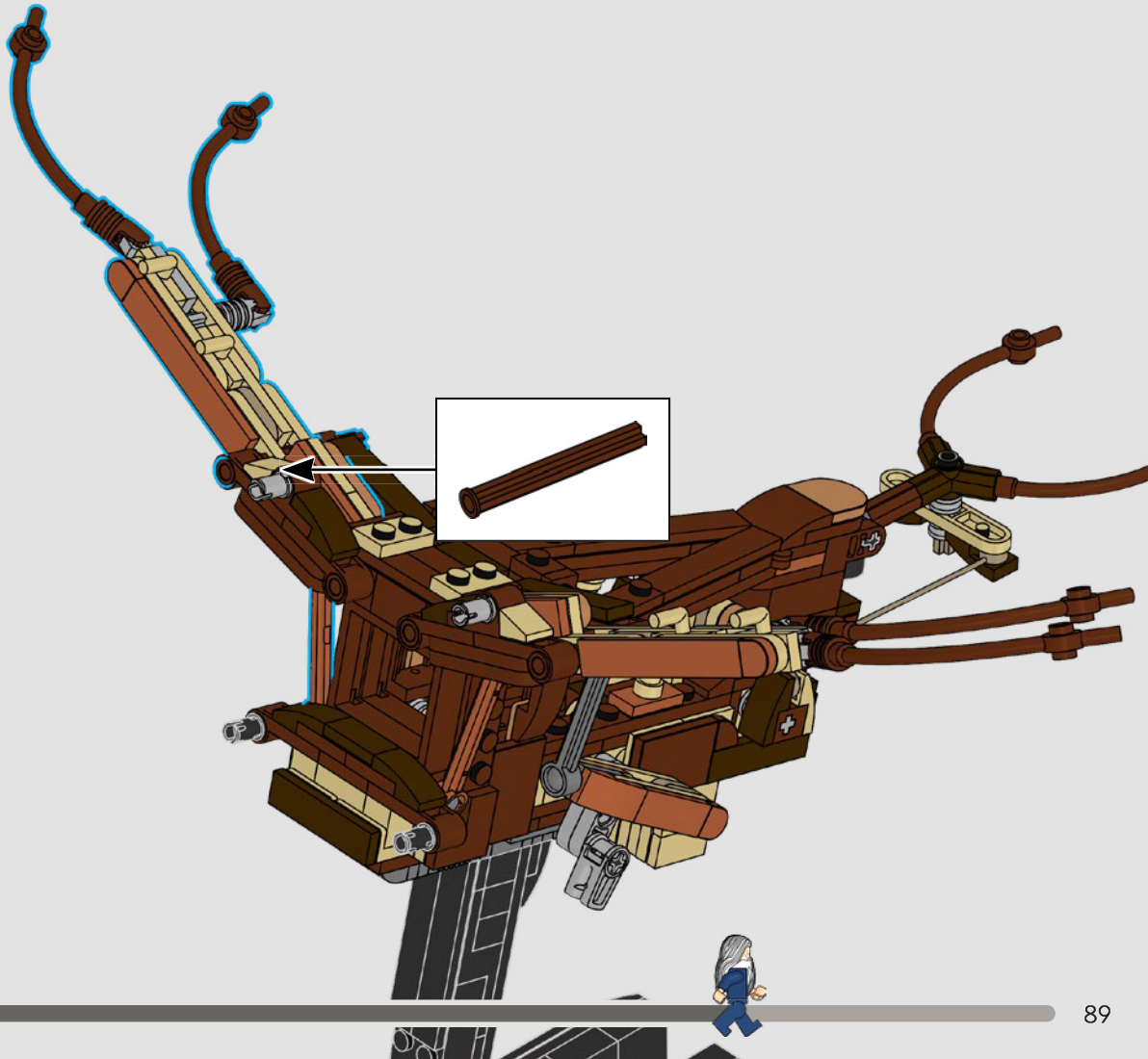


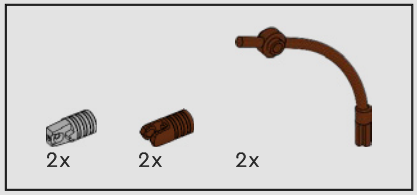




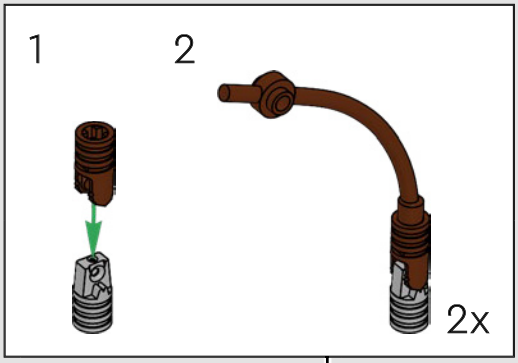


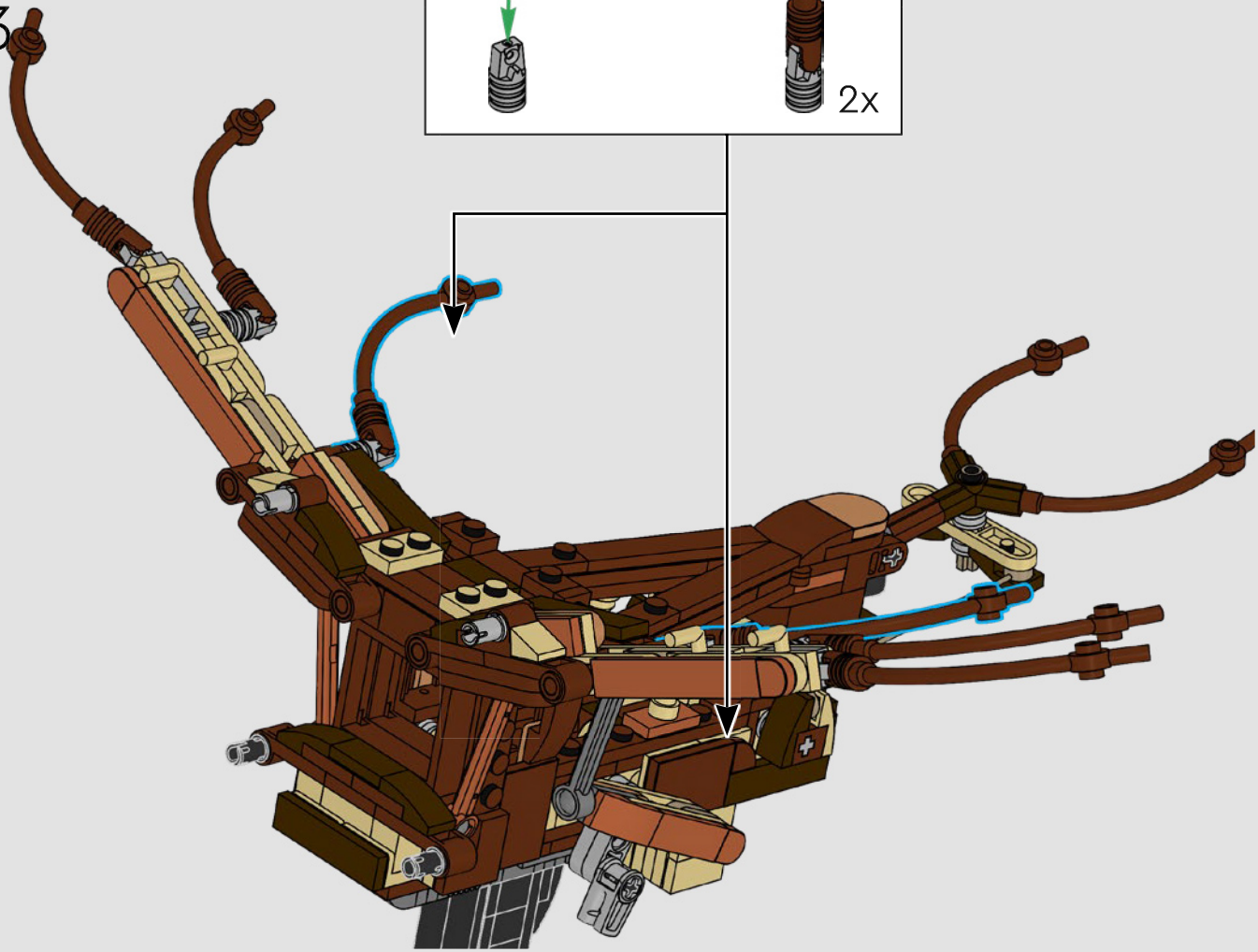
152

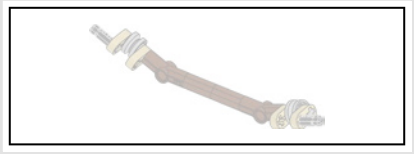


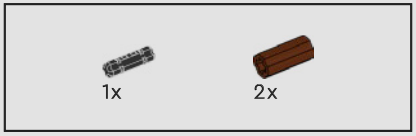


153

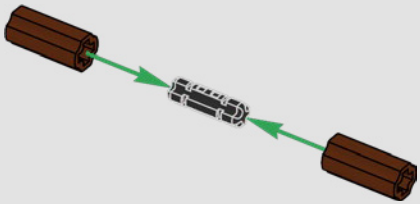


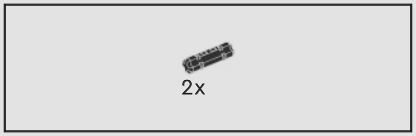




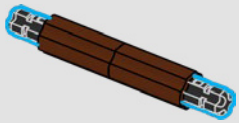


154

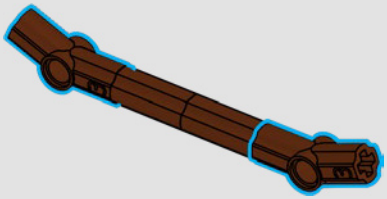


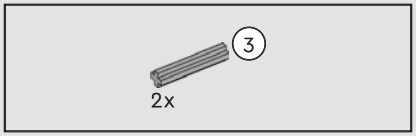


155

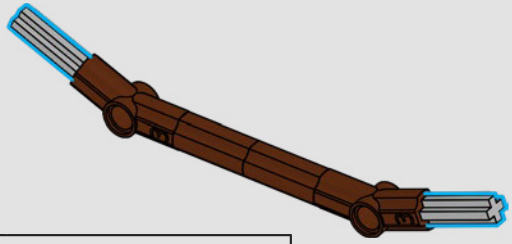


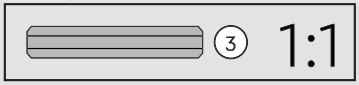
156





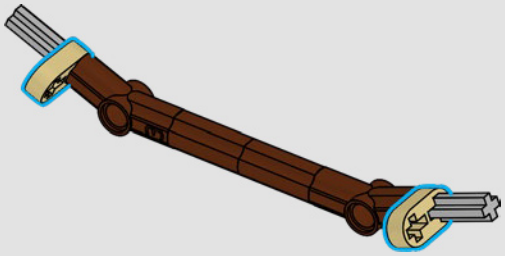
157





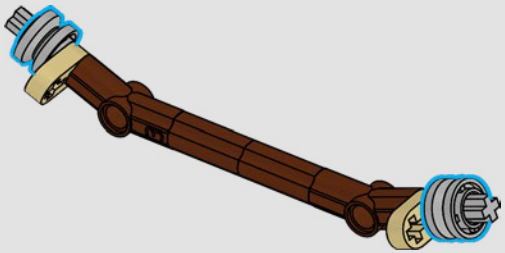

2x

158



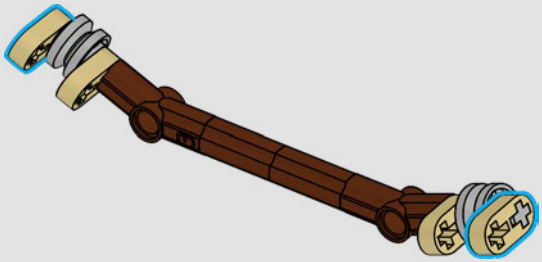

2x

159



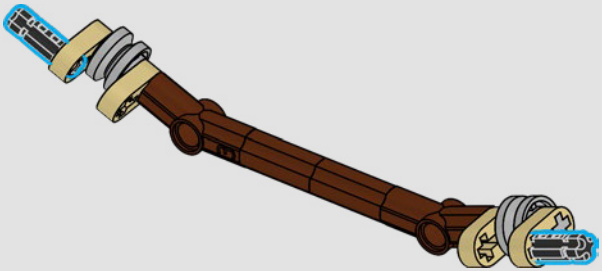

2x

160

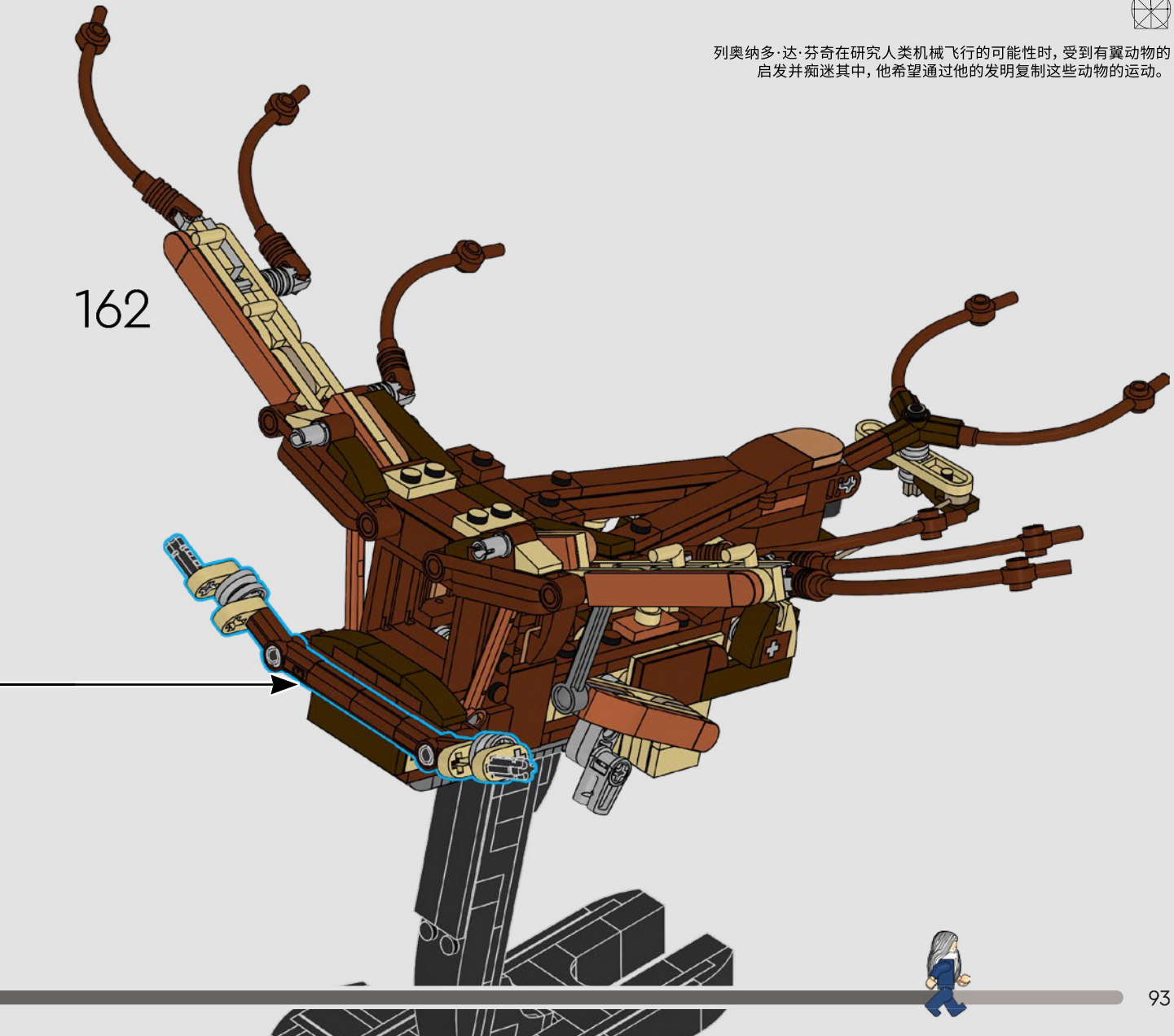


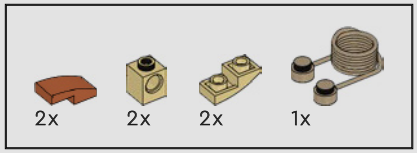

2x

161



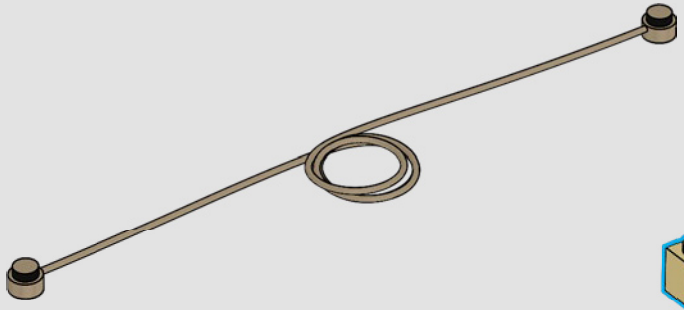
列奥纳多·达·芬奇在研究人类机械飞行的可能性时，受到有翼动物的启发并痴迷其中，他希望通过他的发明复制这些动物的运动。



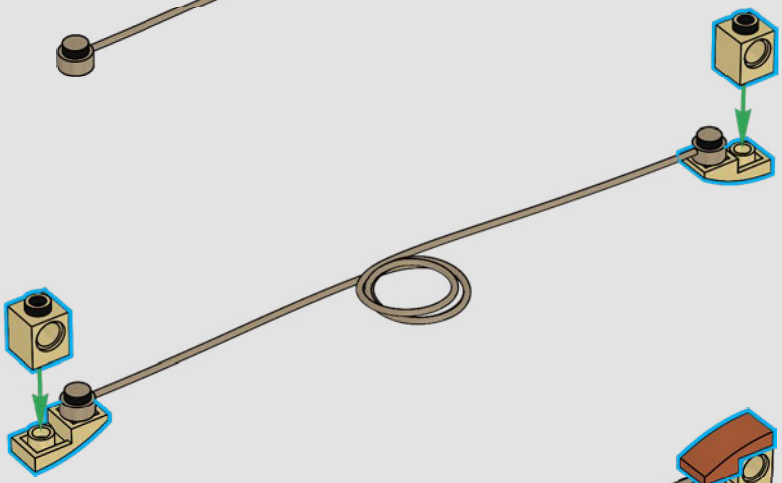


163

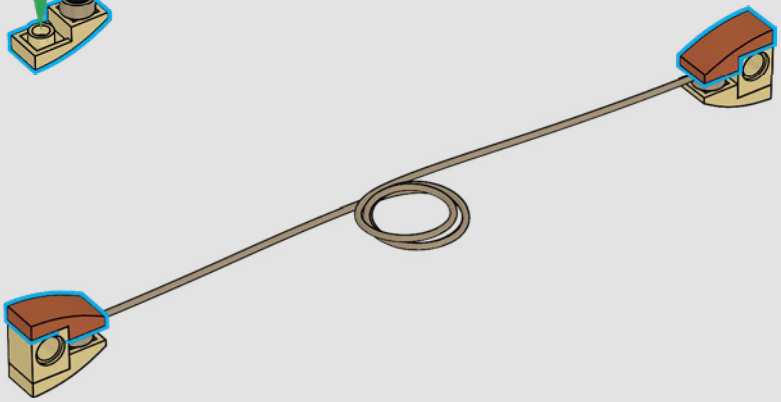
1

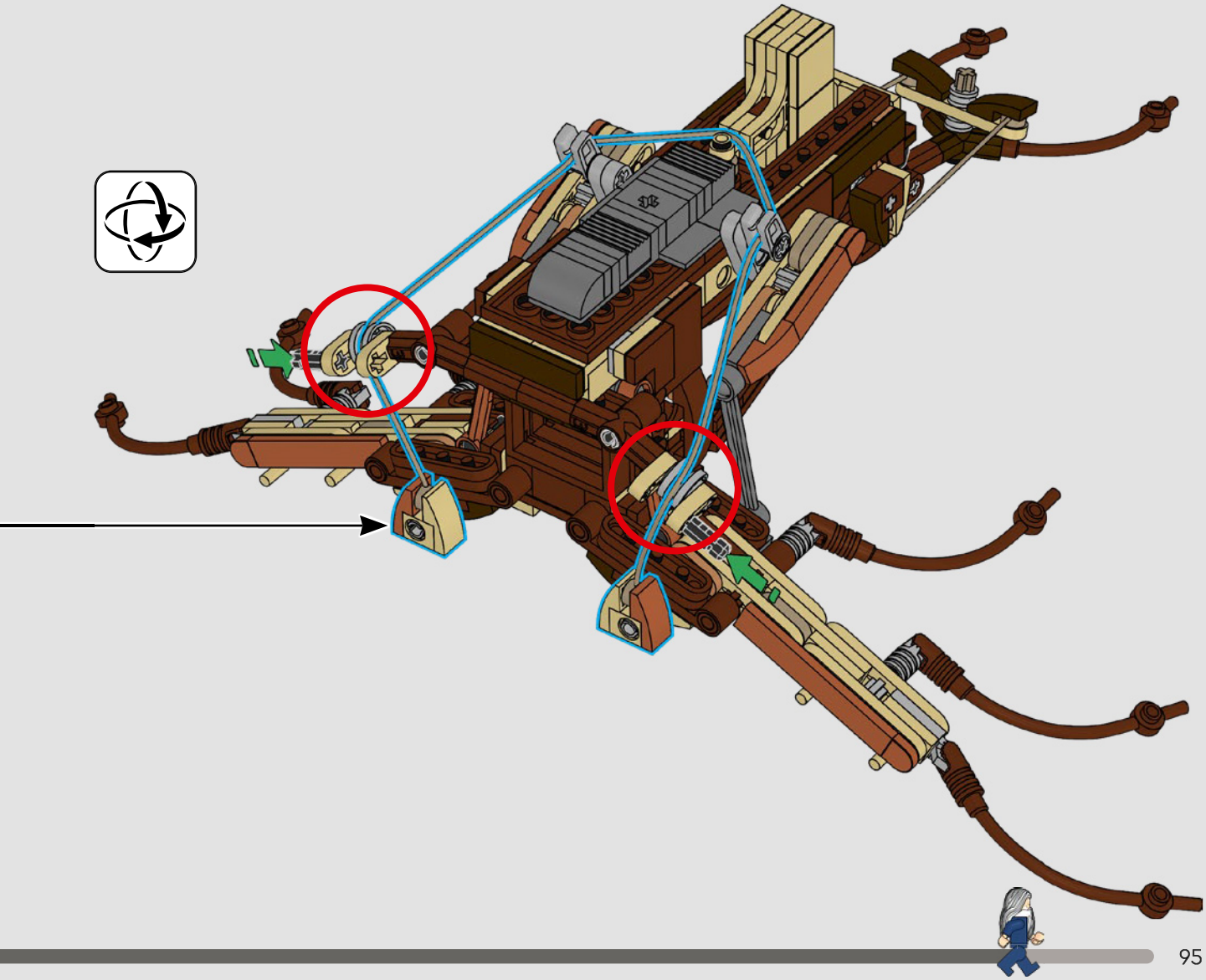


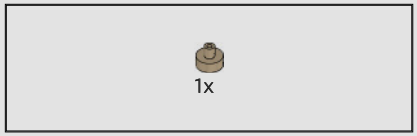
2



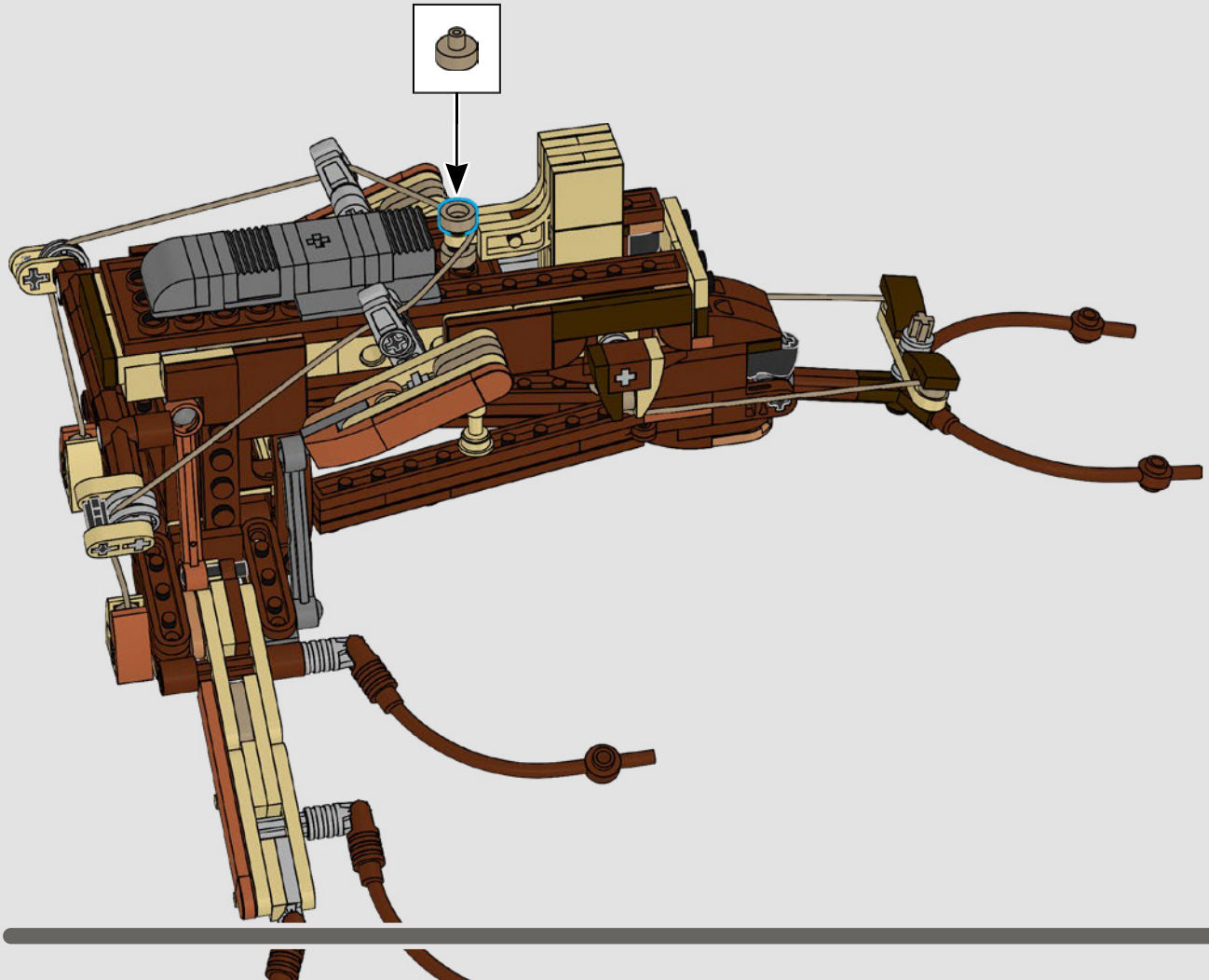
3



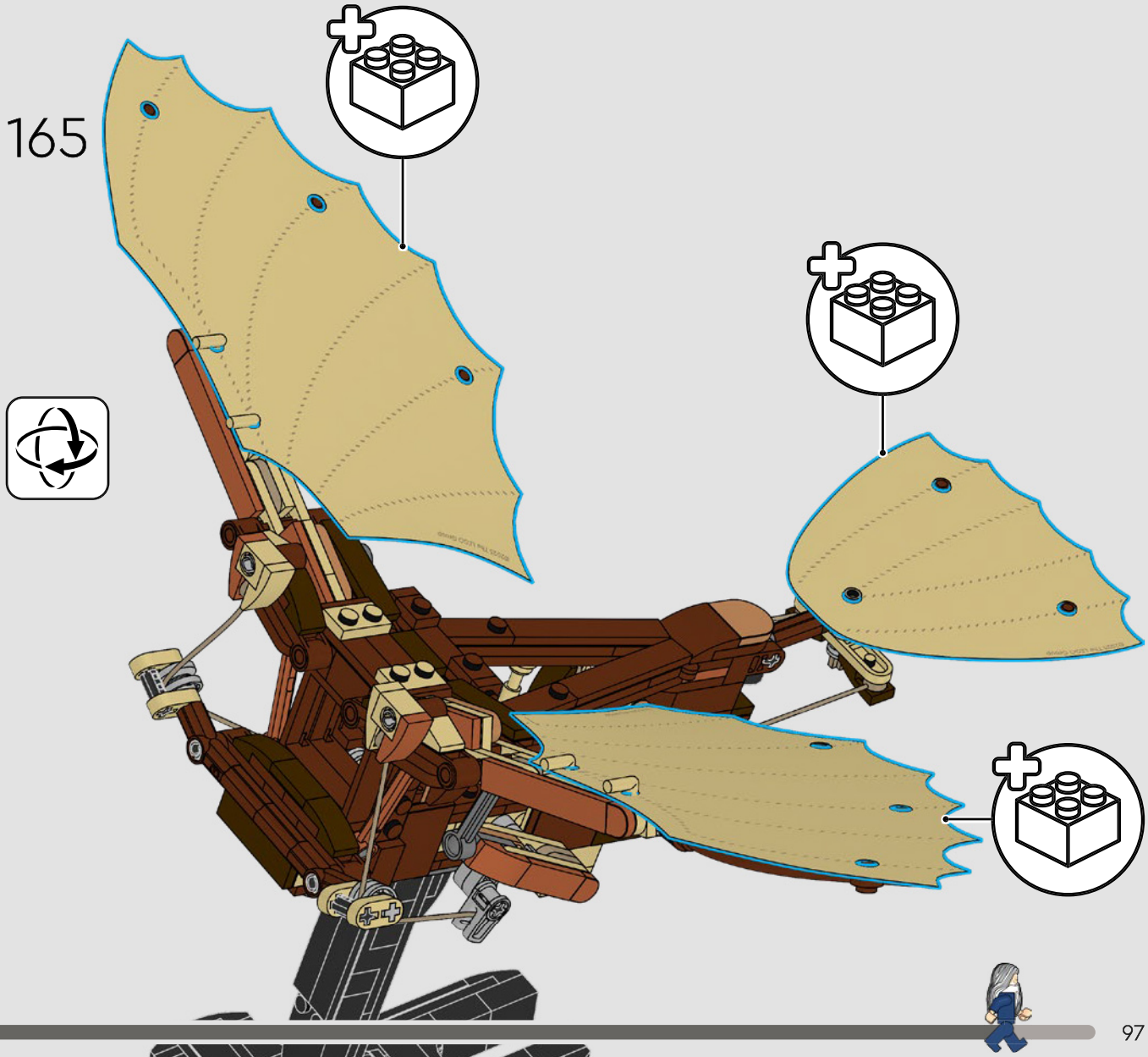




164



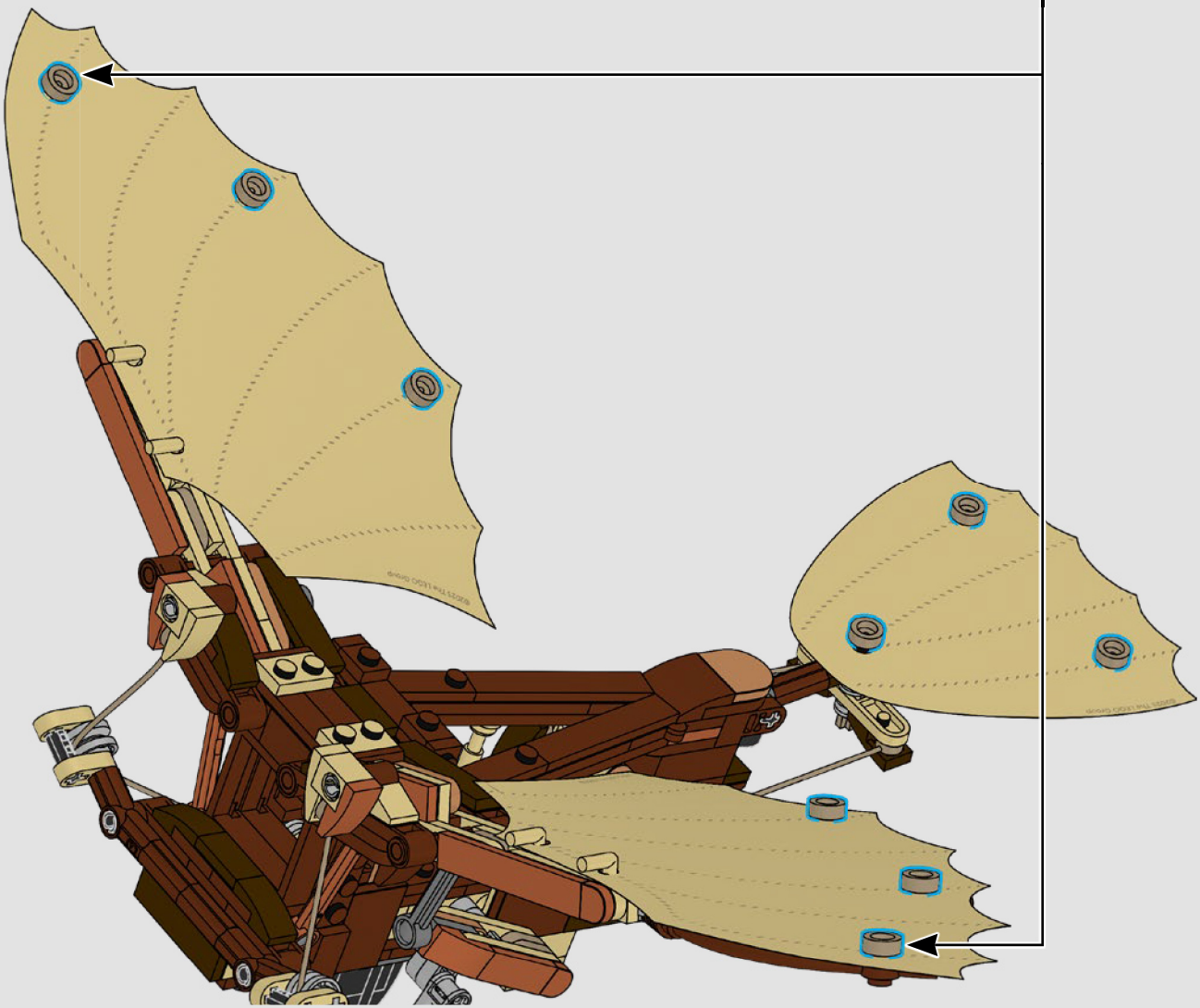
165



9x

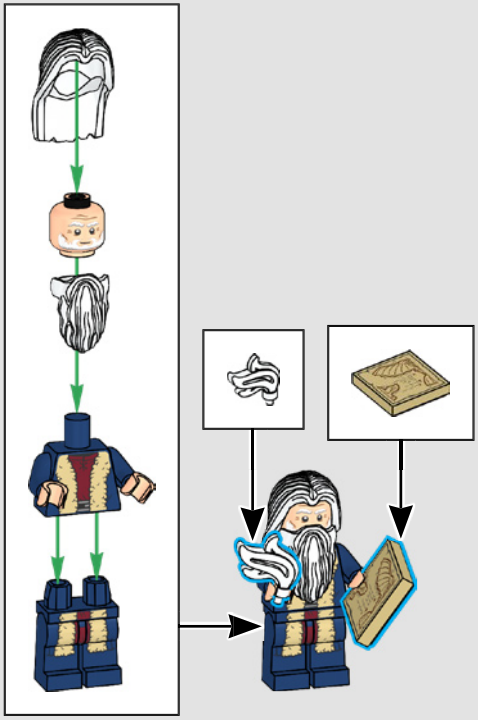
9x

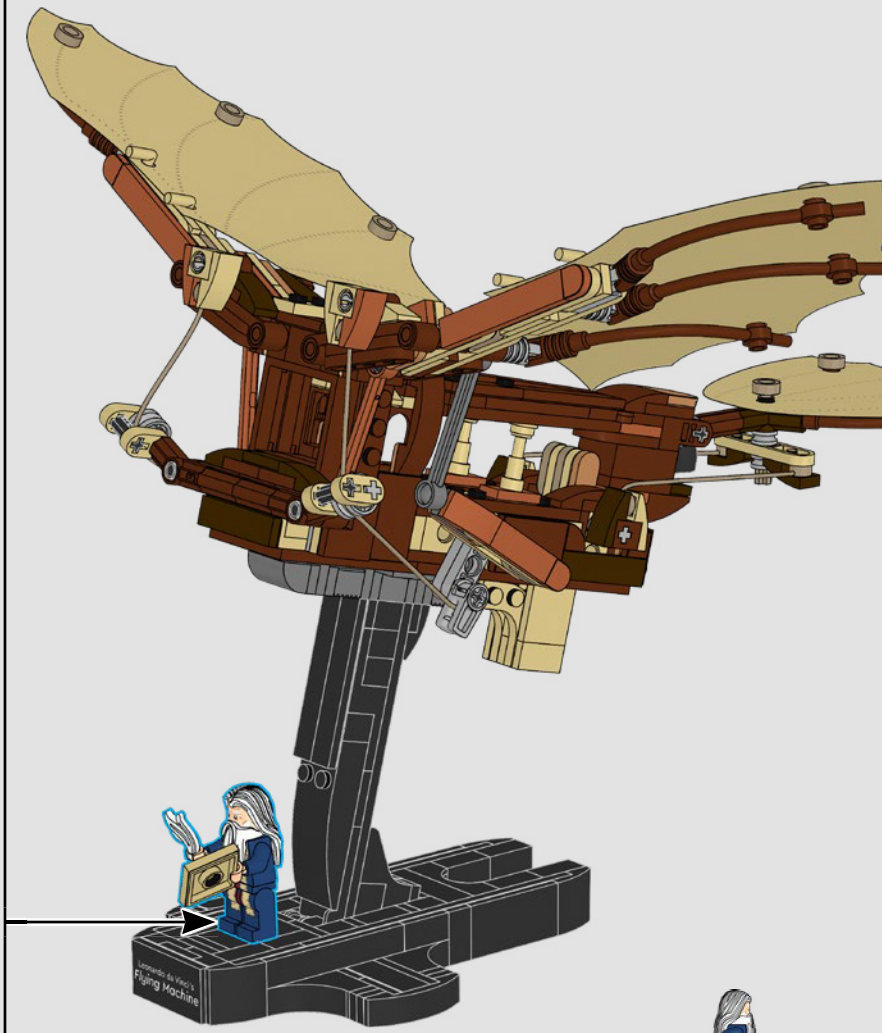
166



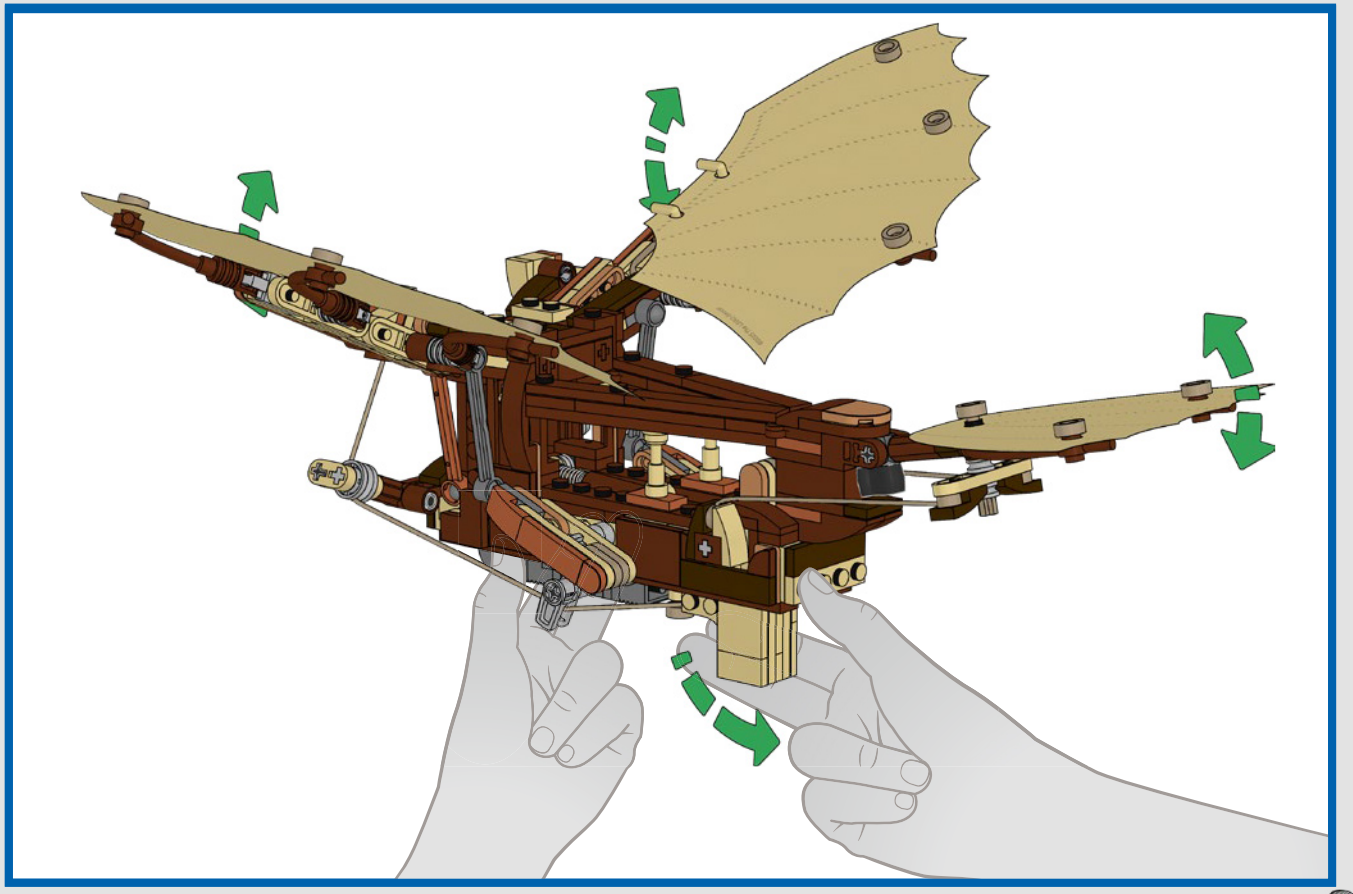
本模型经过精心设计，现至少可通过三种不同的方式启动触发器——在展示架上、一只手握住和用两只手握住（一只手在触发器上，另一只手拿着模型）。

167





其中一项设计挑战是弄清楚将拍打功能的触发器放置在哪里，
以便拼搭者的手不会干扰机构或绳索的任何部分。



2x
6424674

2x
654126

10x
302426

2x
6509664

9x
4109810

2x
6279875

1x
4198367

2x
6114987

7x
6178922

4x
302326

8x
306926

10x
6275806

2x
6192309

2x
6147050

6x
302226

3x
300326

4x
6053077

3x
6469445

1x
6321745

2x
4581280

4x
6154860

2x
365926

2x
4613153

1x
6258904

1x
300126

2x
4560182

2x
362326

1x
6562781

1x
6533639

4x
663626

1x
4180548

2x
346026

3x
4514845

1x
611226

1x
244526

1x
6523326

1x
6530674

6x
6380634

3x
6507790

1x
6513939

4x
6492538

3x
4206482

1x
4142865

4
2x
6129995

6x
6443061

1x
6167923

4x
4516055

2x
4179771

6x
6376461

2x
6352222

1x
6281995

15x
4113917

2x
4523145

4x
6261357

4x
6251252

1x
4114026

2x
6060850

2x
6313611

8x
6117975

2x
4114084

2x
6013081

1x
6523327

2x
4121921

1x
4159739

2x
4234365

6x
4113233

2x
6397561

15x
6311104

1x
4114309

1x
6122047

2x
4112982

1x
6519042

1x
6522105

1x
6522103

1x
6522097

4x
6359273

2x
6092602

4x
6186009

2x
4615606

4x
6340118

2x
6523583

2x
6359696

1x
6315564

1x
6289366

1x
6353972

11x
6300320

8x
6231386

2x
6330148

1x
6184880

1x
6031821

1x
6532367

2x
6533185

1x
6240515

11x
4221744

4x
6149677

8x
6397610

2x
6472546

6x
6503738

3x
4531751

8x
4211150

2x
6138664

2x
6063447

2x
6502370

2x
6459597

2x
6221608

3x
6146858

2x
6261388

10x
6415991

1x
6534905

2x
6172636

6x
6463591

4x
6311441

3x
4211189

1x
4216668

4x
4211190

4x
4658005

5x
6257604

2x
4595889

2x
6092566

4x
6416695

1x
4211201

4x
6159763

5

8x
6516553

4x
4221590

2x
4211204

4x
4216945

2x
4271874

2x
4223683

1x
6005331

2x
4210636

4x
4211063

1x
6302690

1x
6178919

2x
6039479

2x
6308045

4x
6123814

2x
6118832

2x
4629920

6x
4566688

8x
6046943

1x
6273219

6x
6313874

1x
6523324

6x
6271165

2x
6335328

2x
4211758

4x
6265704

2x
4211807

2x
6471951

4x
6360043

2x
6266231

4x
4211815

3

4x
4211429

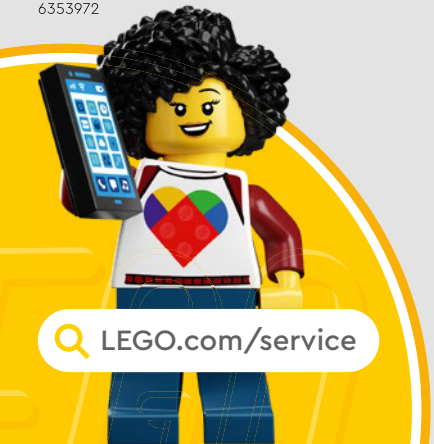
1x
4211396

1x
4211805

7

1x
4535768

9



YOU COULD WIN

YOU COULD **WIN**

Your feedback will help shape the future development of this product series.

Visit:

DU KÖNNTEST **GEWINNEN**

Dein Feedback trägt zur Weiterentwicklung dieser Produktreihe bei.

Geh auf:

VOUS POURRIEZ **GAGNER**

Vos commentaires nous aideront à concevoir les futurs produits de cette gamme.

Visitez :

POTRESTI VINCERE TU

La tua opinione ci aiuterà a migliorare la creazione futura di questa linea di prodotti.

Visita:

PUEDES GANAR

Tu opinión contribuirá al futuro de esta serie de productos.

Visita:

轻松获奖

您的反馈将有助于我们在今后改进本产品系列。

请访问：

LEGO.com/productfeedback

You also have the chance to win a LEGO® set.

Terms and conditions apply.*

Außerdem hast du die Chance, ein LEGO® Set zu gewinnen.

Es gelten die Teilnahme-bedingungen.*

Vous pourriez également gagner un ensemble LEGO®.

Des conditions s'appliquent.*

Hai anche la possibilità di vincere un set LEGO®.

Termini e condizioni sono applicabili.*

También tienes la oportunidad de ganar un set LEGO®.

Aplican términos y condiciones.*

您还有机会赢取乐高®套装。

条款和条件适用。*

**LEGO.com/productfeedback-terms*