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Q LEGO.com/devicecheck



Q LEGO® Builder







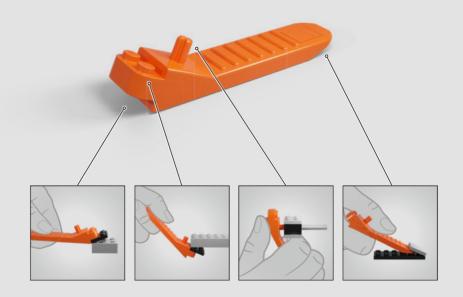


Impresiones del equipo de diseño de LEGO®

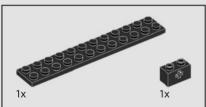
"Este fue el punto de partida de nuestro concepto: crear una máquina cuyas partes móviles, en su totalidad, estuvieran interconectadas y se activaran mediante la tracción de cordeles o, en este caso, de un solo cordel. Se trata de un modelo aparentemente simple, aunque representa un gran desafío de ingeniería LEGO®. Se diseñó para que pareciera estar hecho de madera, lino y cuerda. La cola y las alas tienen un esqueleto construido con ladrillos, y en las alas de tela se puede distinguir un patrón impreso. ¡Incorporar el cordel textil como elemento principal del mecanismo de aleteo requirió de un considerable esfuerzo! Los componentes mecánicos del modelo se dejan descubiertos para resaltar las partes funcionales y la visión de Leonardo, así como para dar oportunidad de emprender el vuelo a nuestra propia interpretación del diseño original".

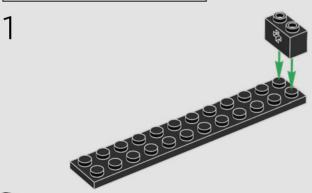
Antica Bracanov

Diseñadora sénior de LEGO®

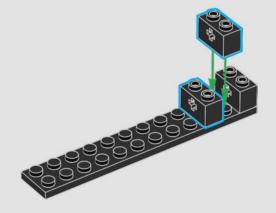




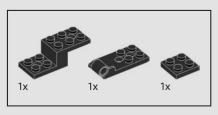


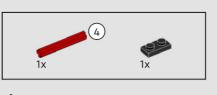


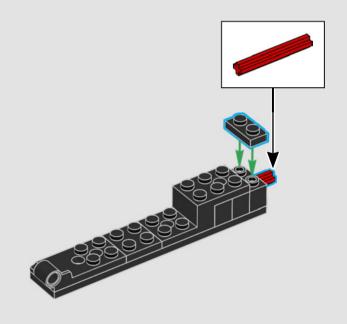


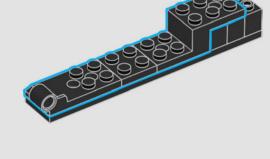










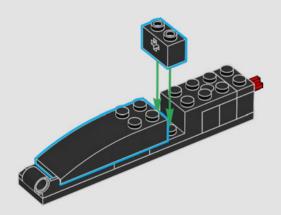


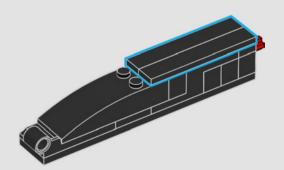


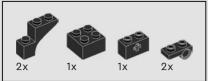


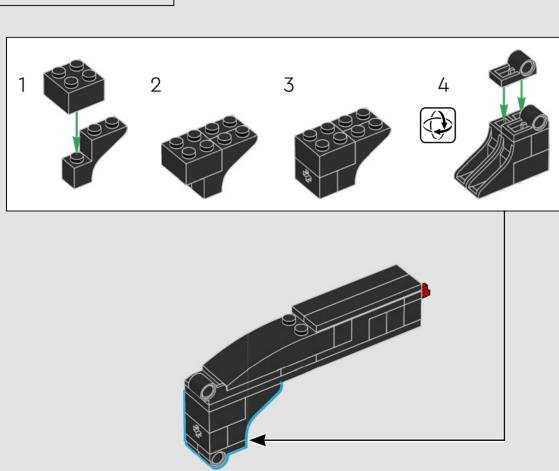






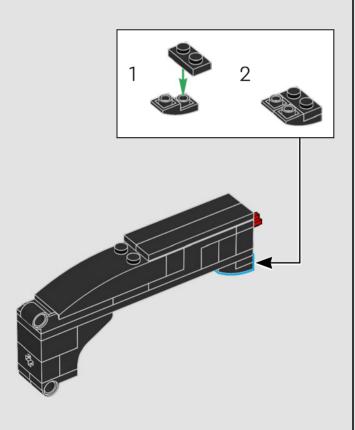




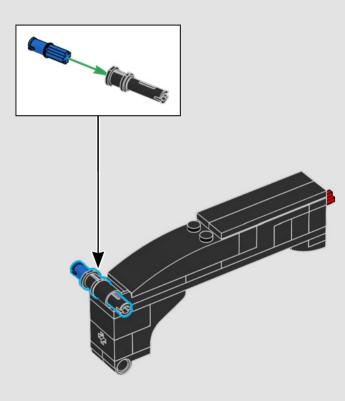


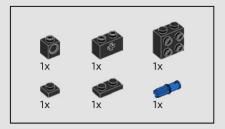


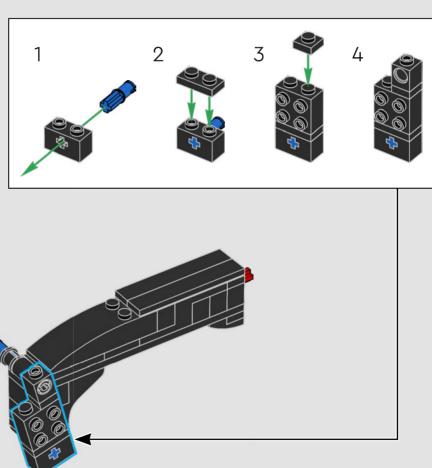




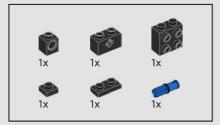


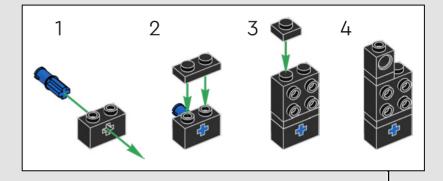


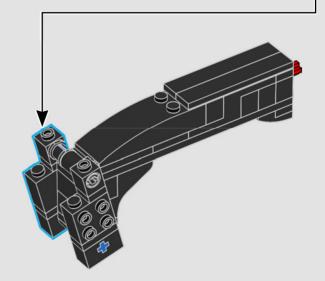






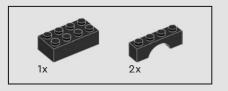


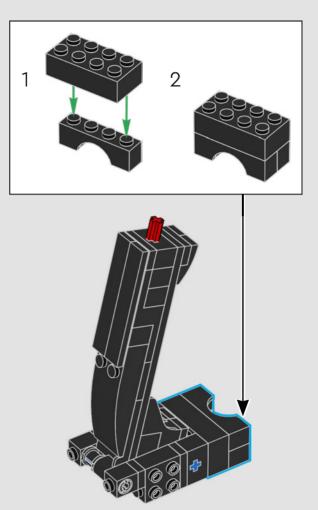




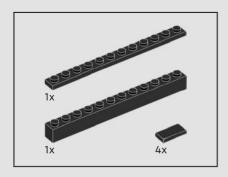


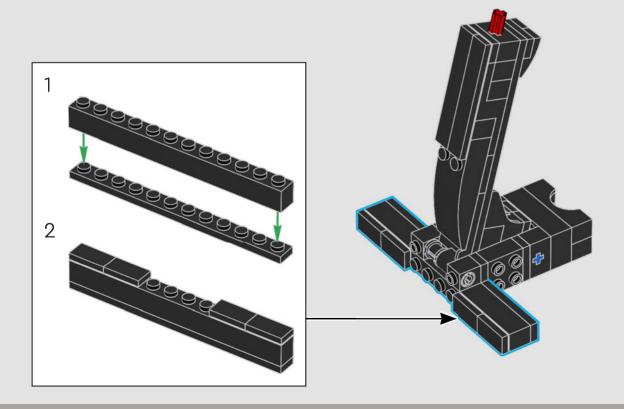
Una de las máquinas de Da Vinci, la conocida como *Il grande nibbio*, se inspiró y nombró en honor de un ave de la familia *Accipitridae*: el milano.



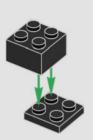








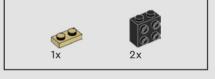




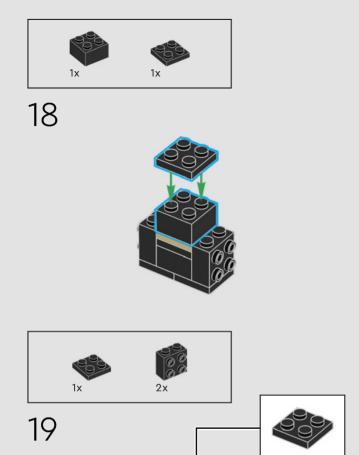
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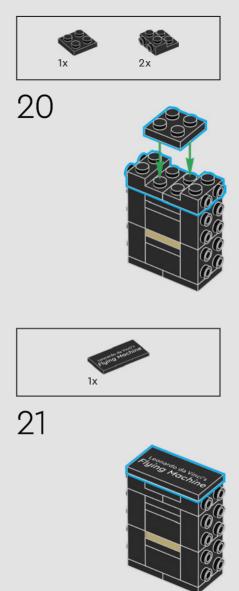






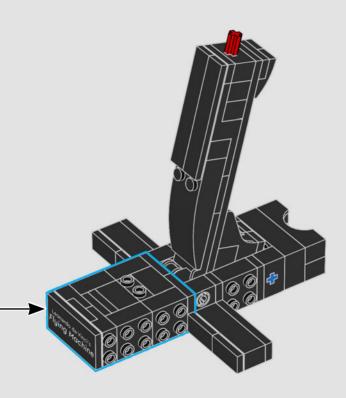






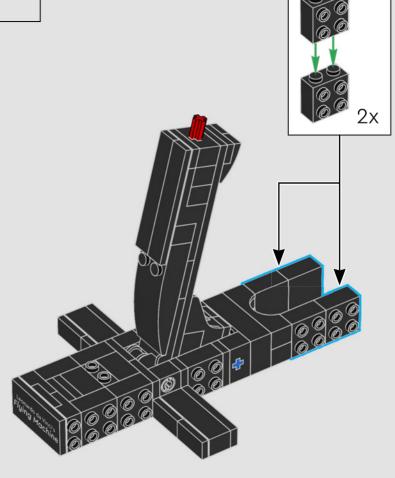


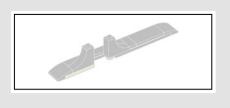
Se sabe que Da Vinci escribía en sentido inverso en sus cuadernos. Para poder leer sus notas manuscritas, hay que reflejar la página en un espejo.





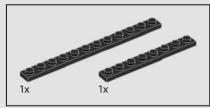


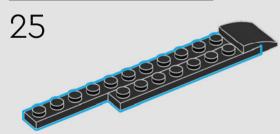




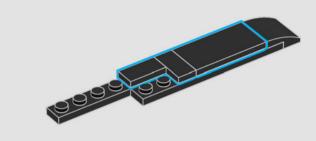








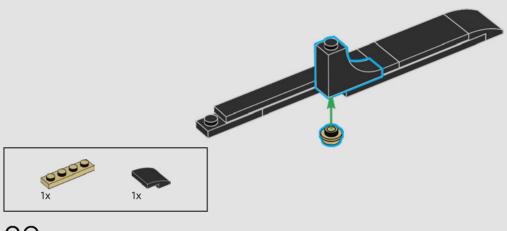


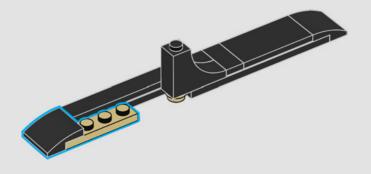




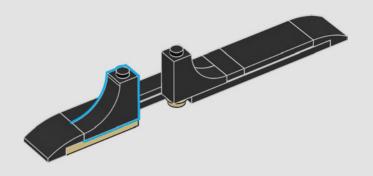


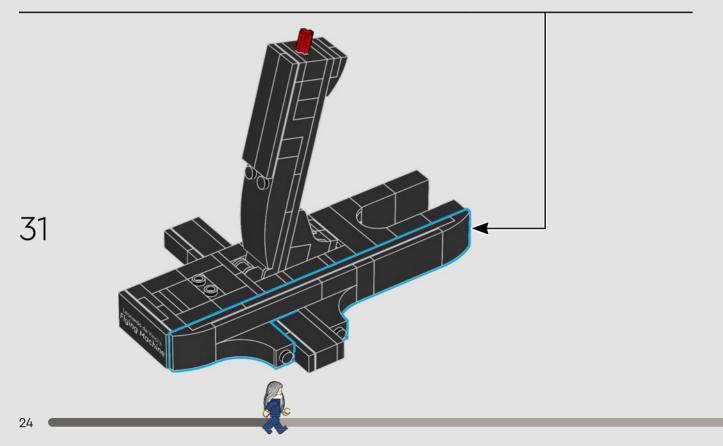






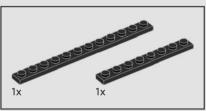


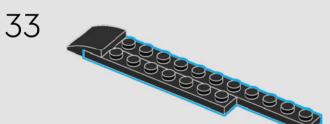




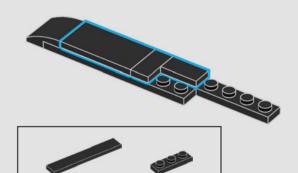




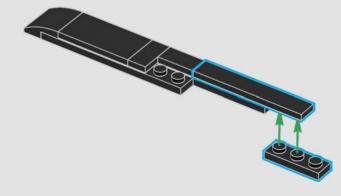




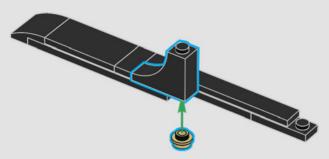




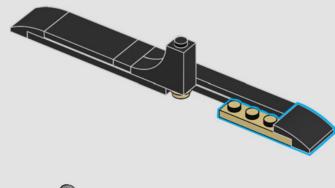






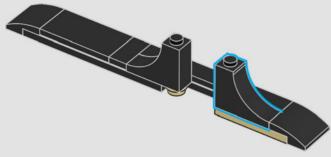


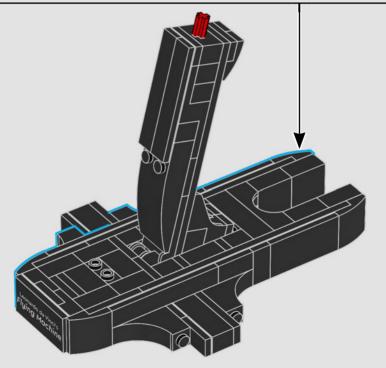








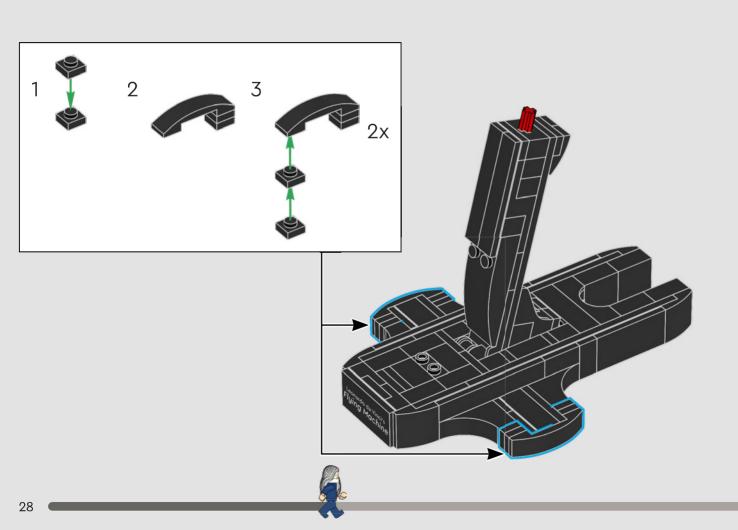








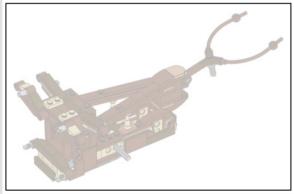
Es conocido que Leonardo da Vinci escribió más de 35.000 palabras e hizo más de 500 bocetos relacionados con el vuelo y las máquinas voladoras.



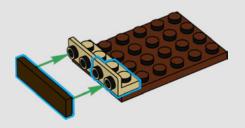








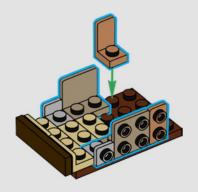




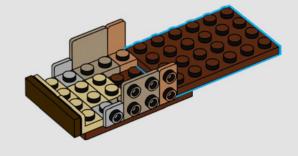


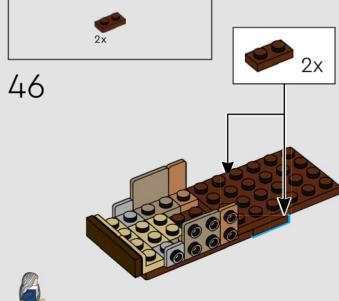




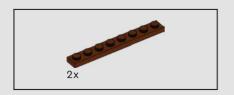


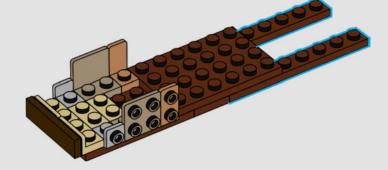


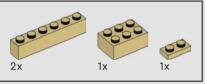


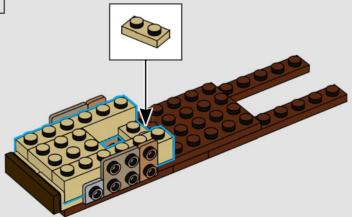


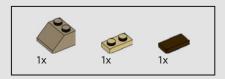


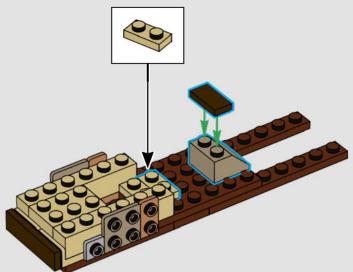




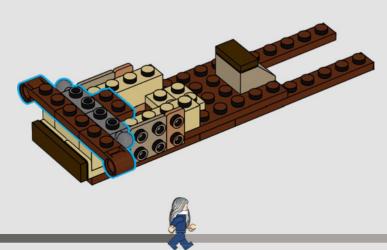






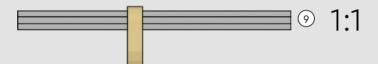




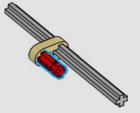


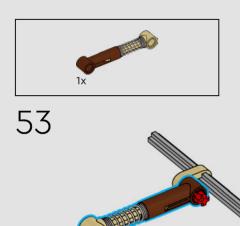




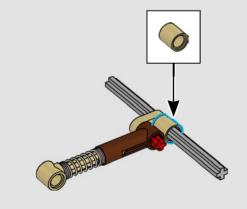




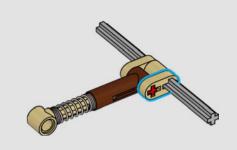




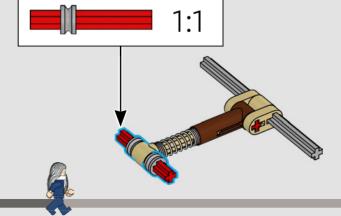




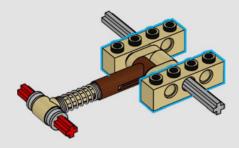


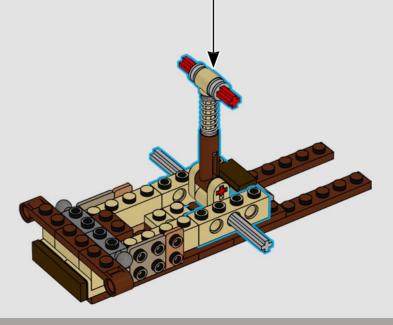




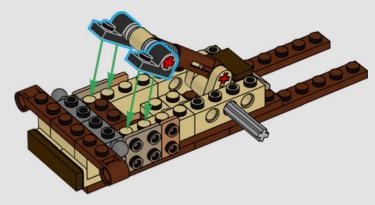




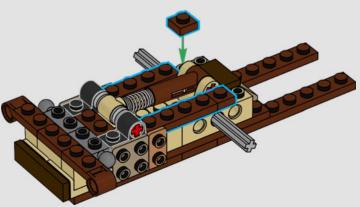






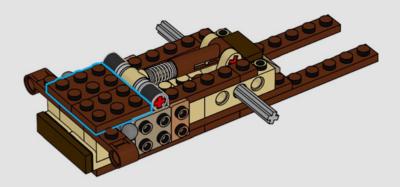




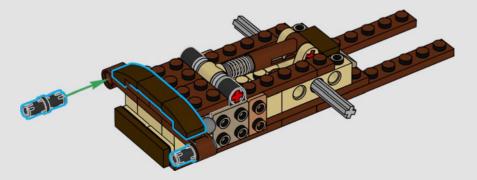




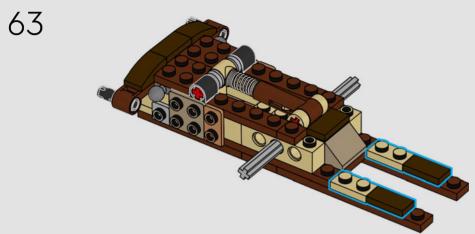


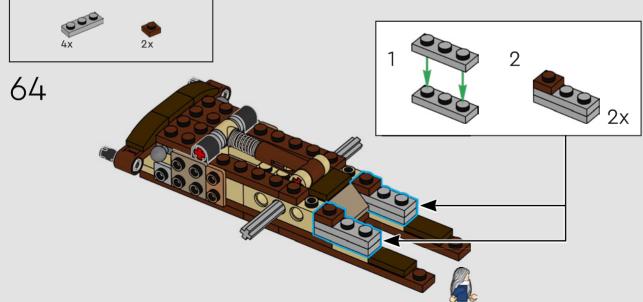














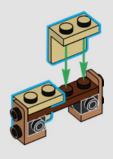






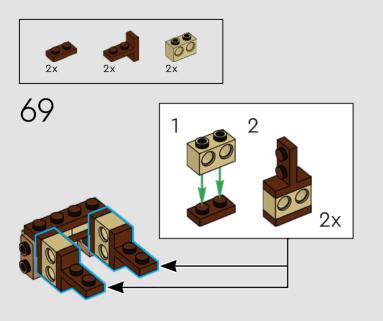


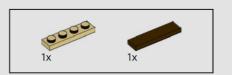


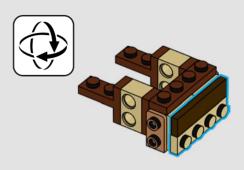


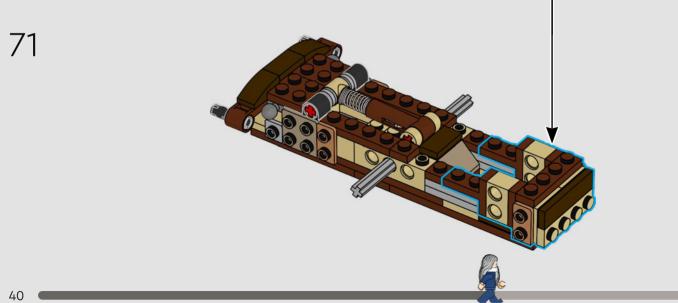




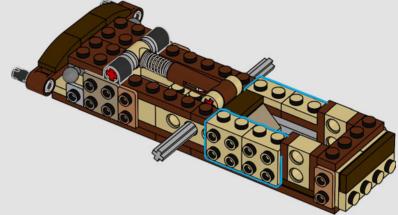




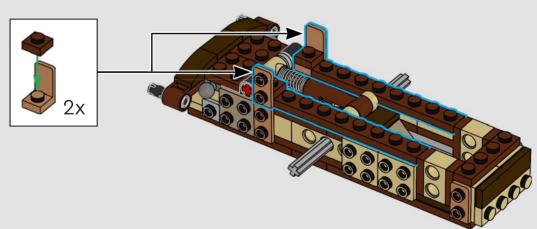




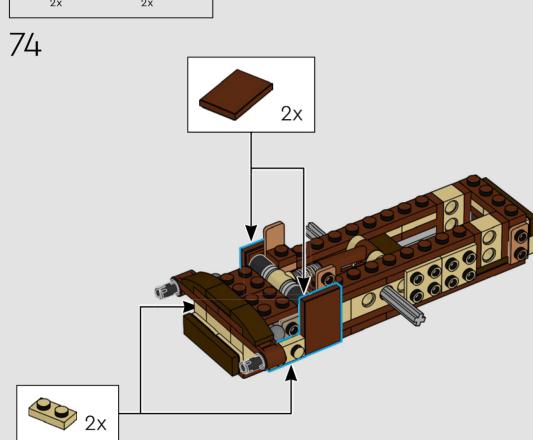




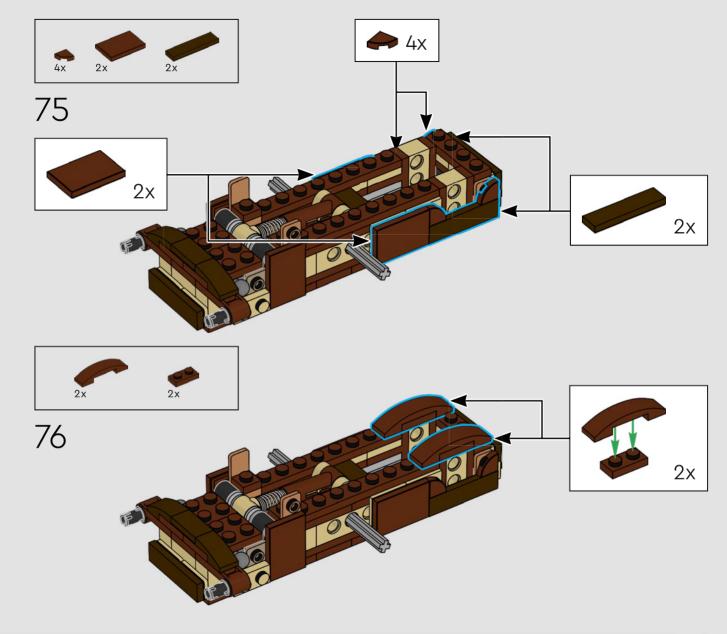




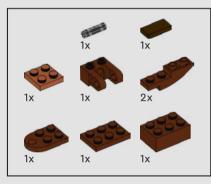
















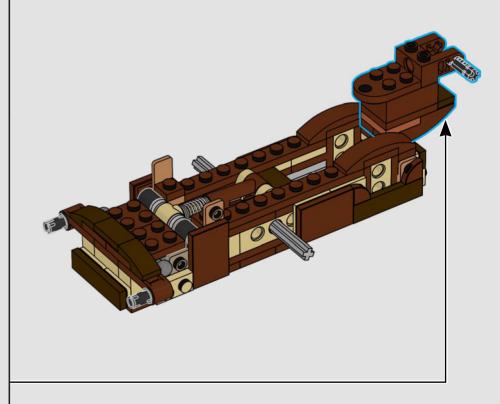


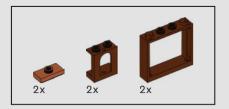


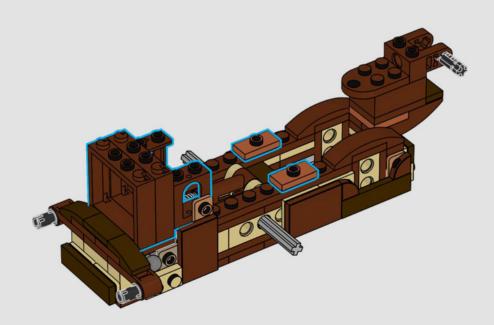


El ornitóptero de Leonardo, construido para un amigo del artista dispuesto a pilotarlo a baja altura, no resultó del todo exitoso. La máquina se estrelló y el amigo de Da Vinci se rompió una pierna.

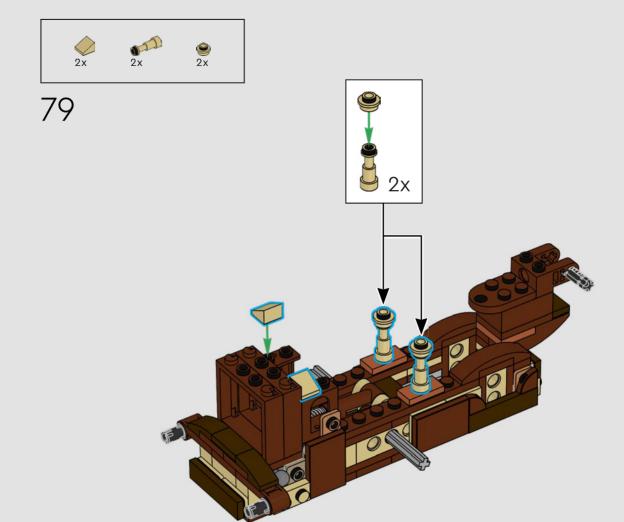














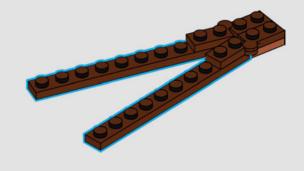






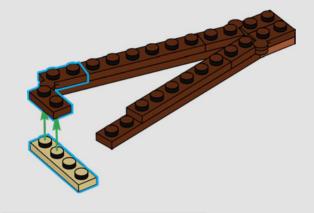




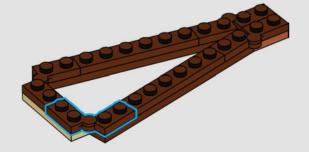


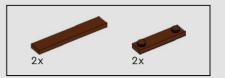


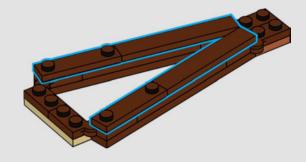


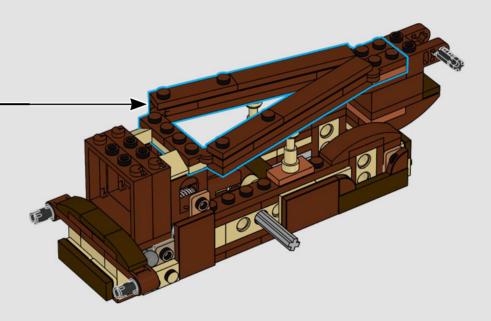




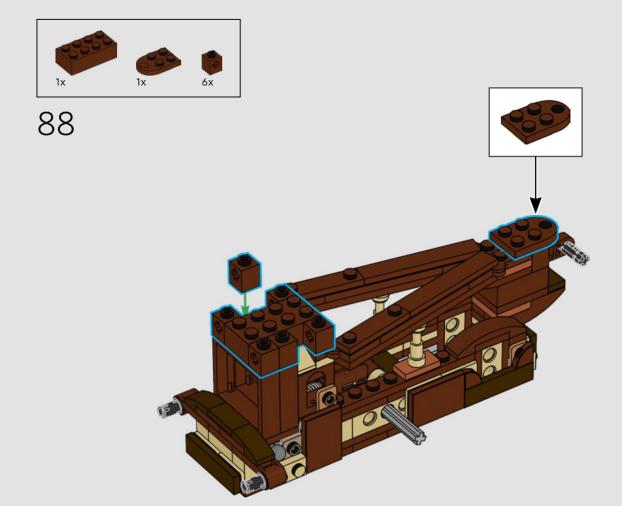




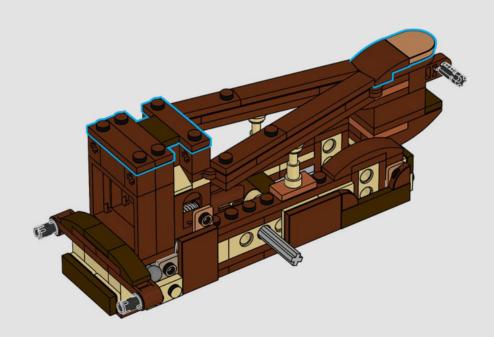










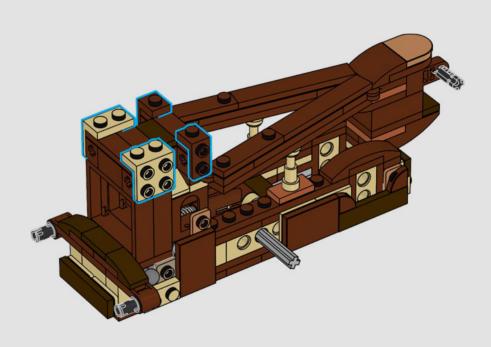




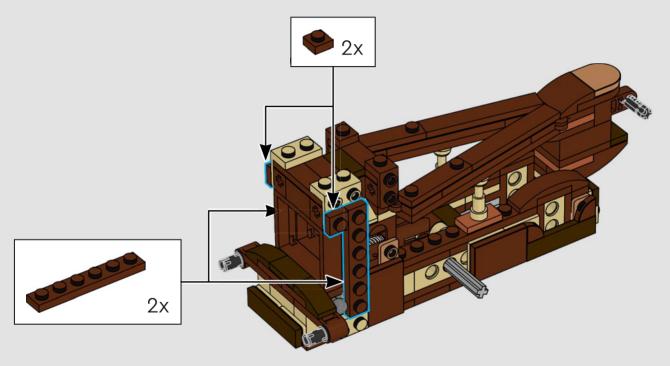




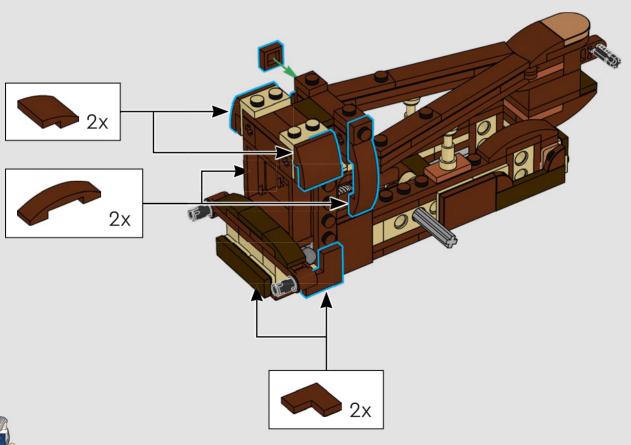
Leonardo da Vinci persistió en su idea de que el cuerpo humano podía producir la energía suficiente para impulsar una máquina voladora.



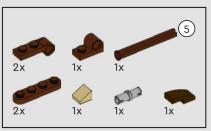




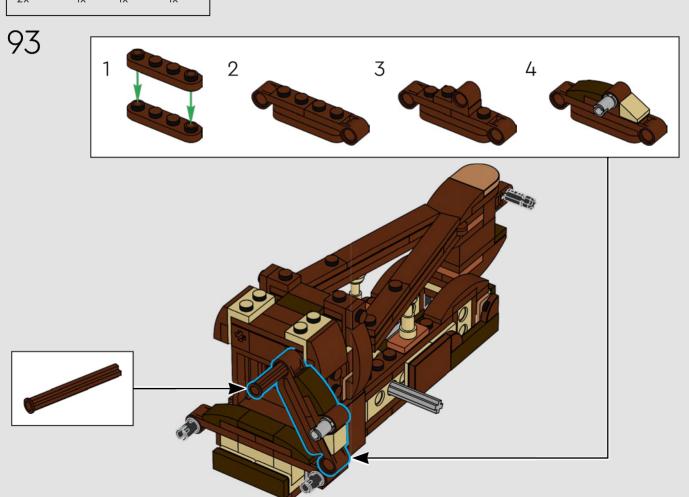


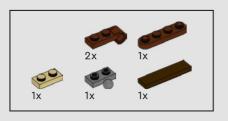


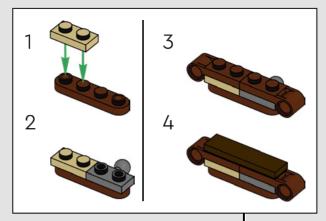


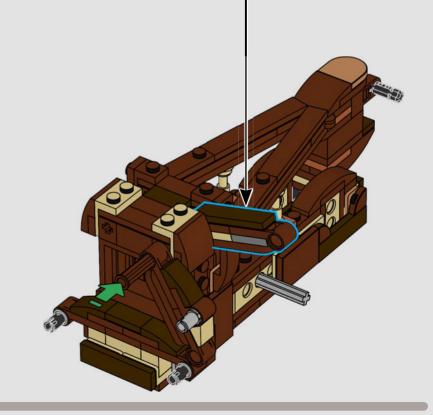




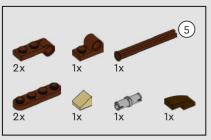


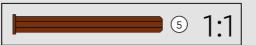


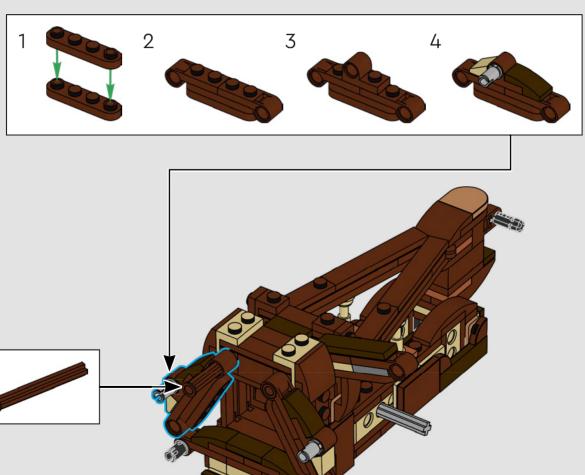


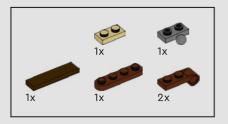


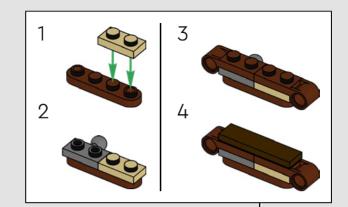


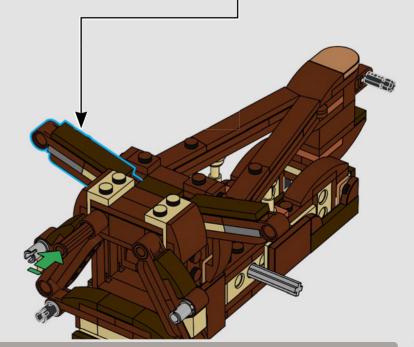




















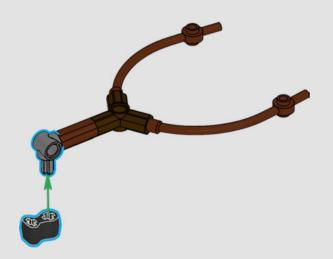
Los bocetos de Leonardo da Vinci muestran distintas máquinas voladoras controladas por un piloto que usa diversos mecanismos de propulsión, como las piernas o una combinación de las piernas y los brazos. Algunas de ellas incluso contemplan timones conectados a la cabeza de su tripulante.

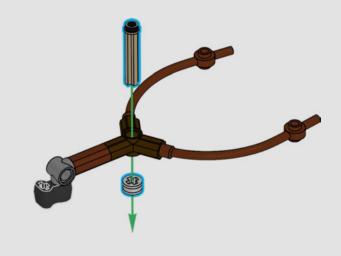






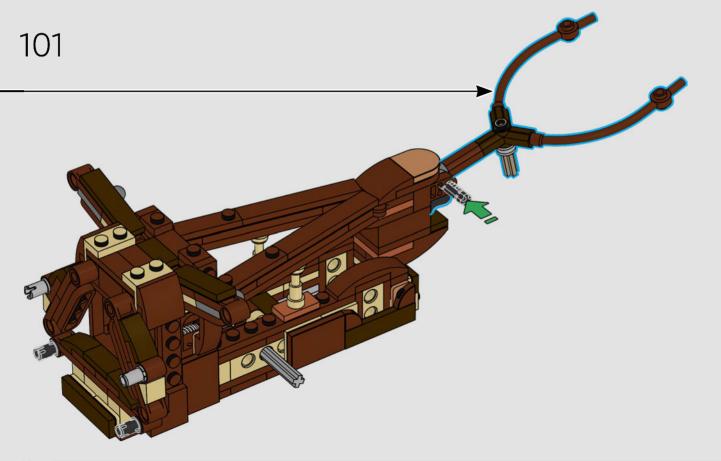






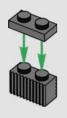


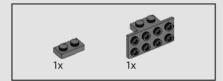


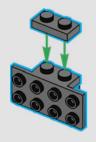




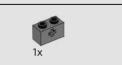


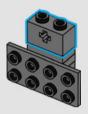








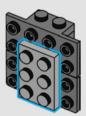






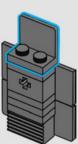




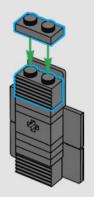




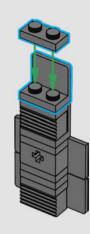




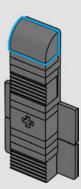




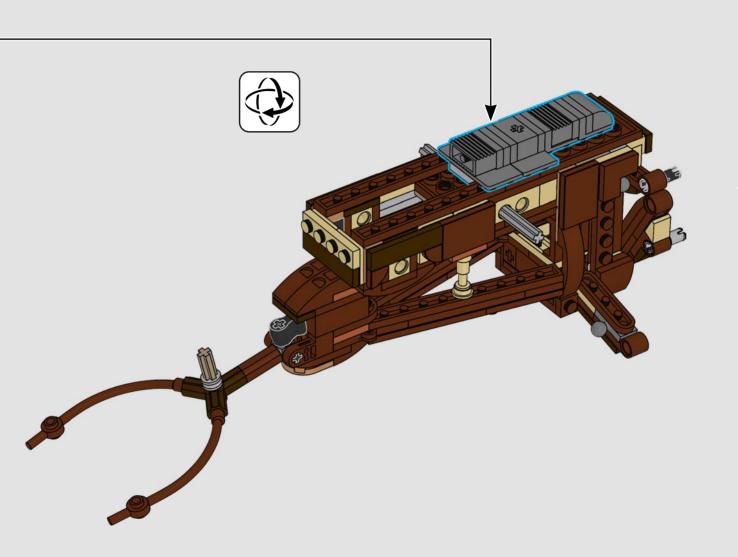


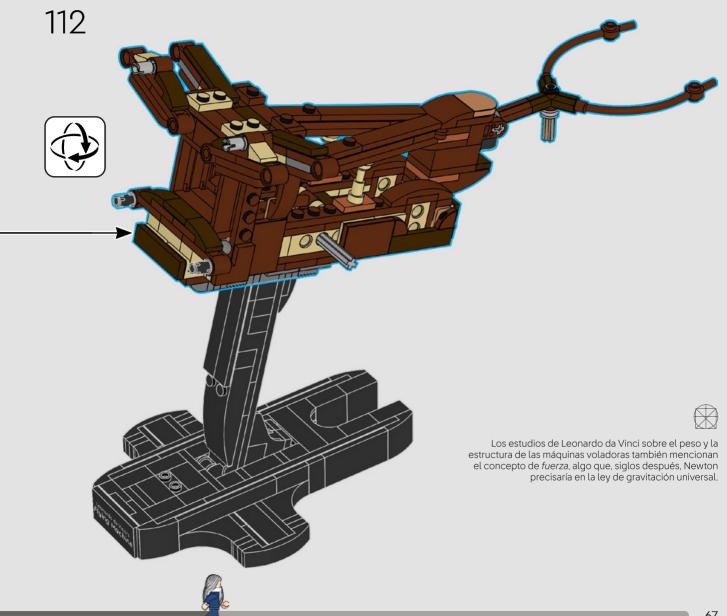














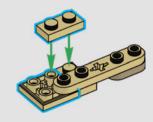




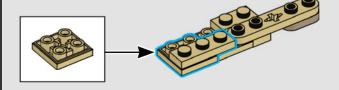




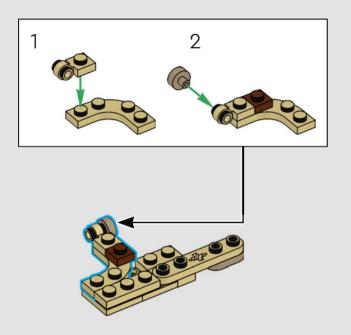




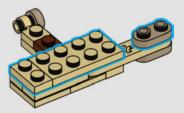




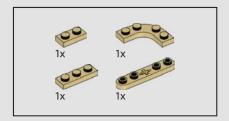


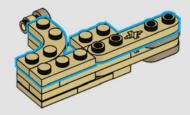


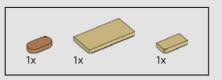


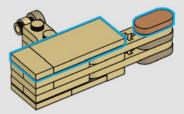


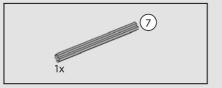


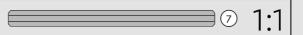


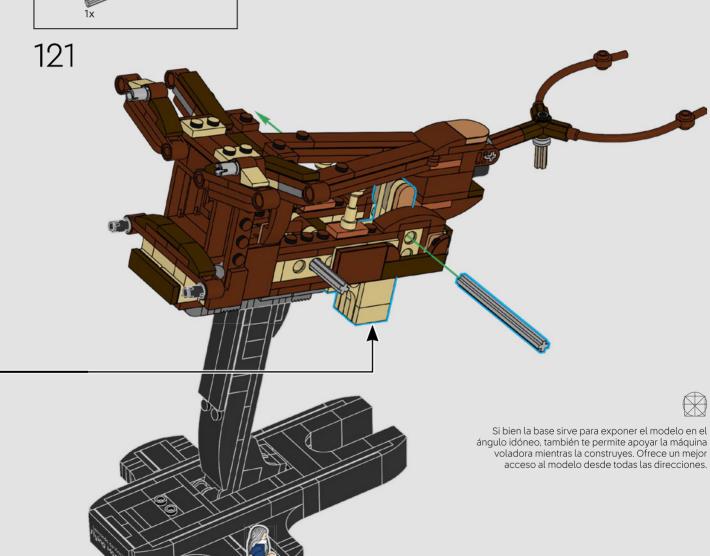


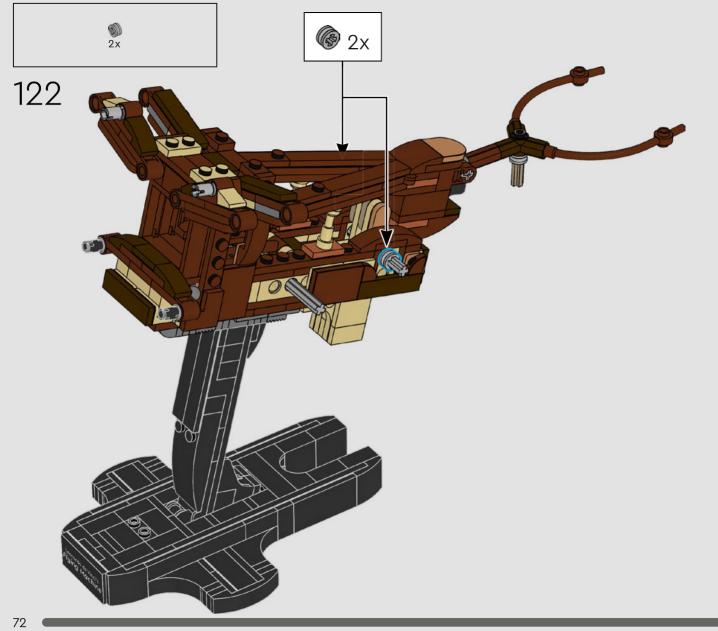


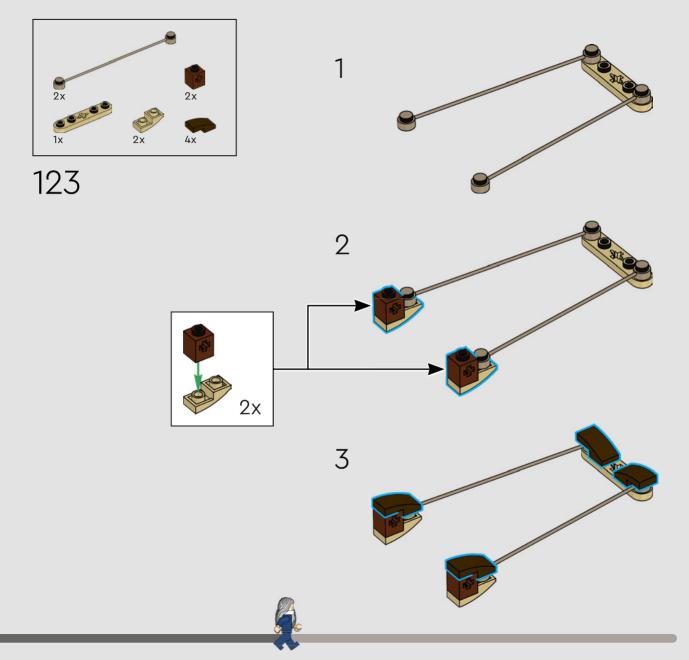


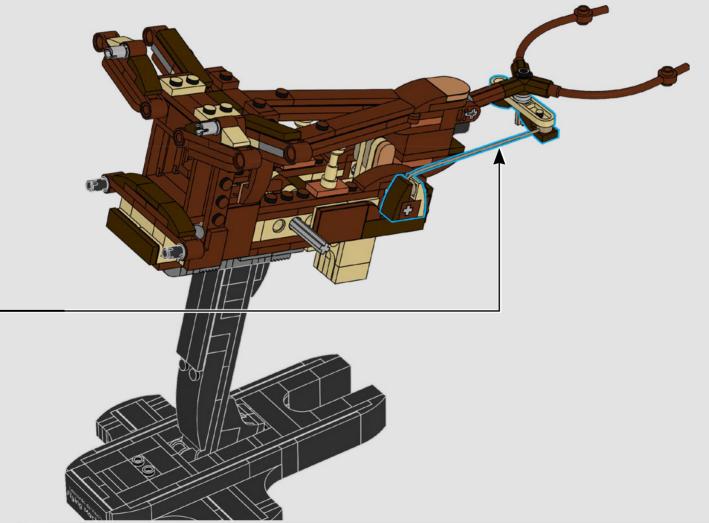




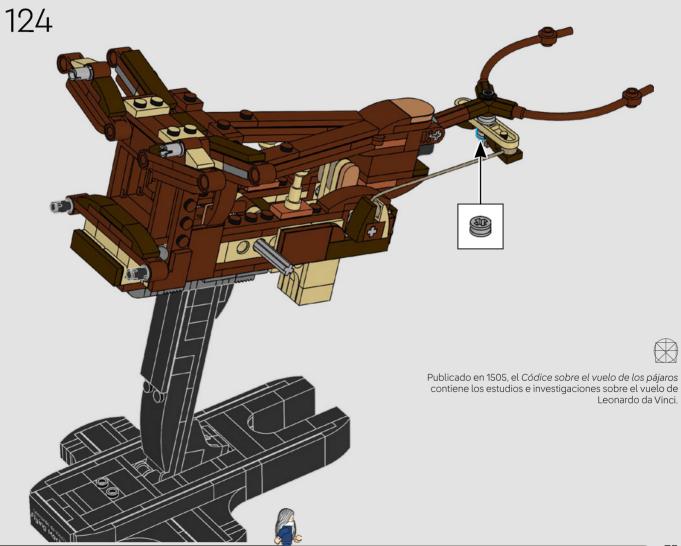


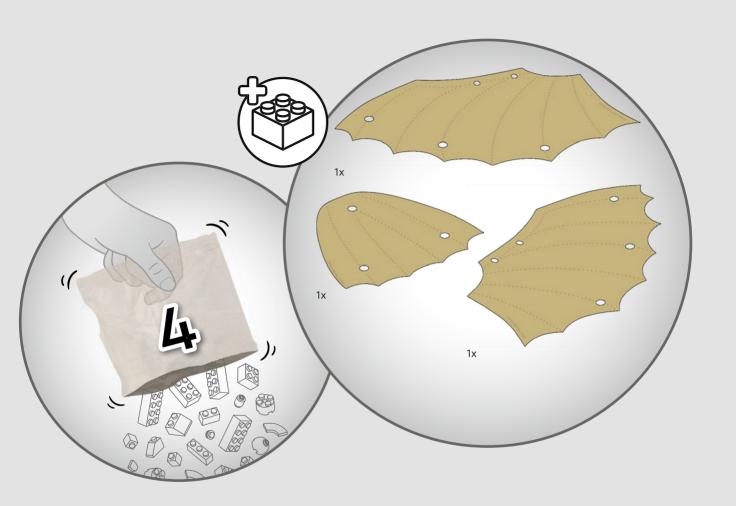




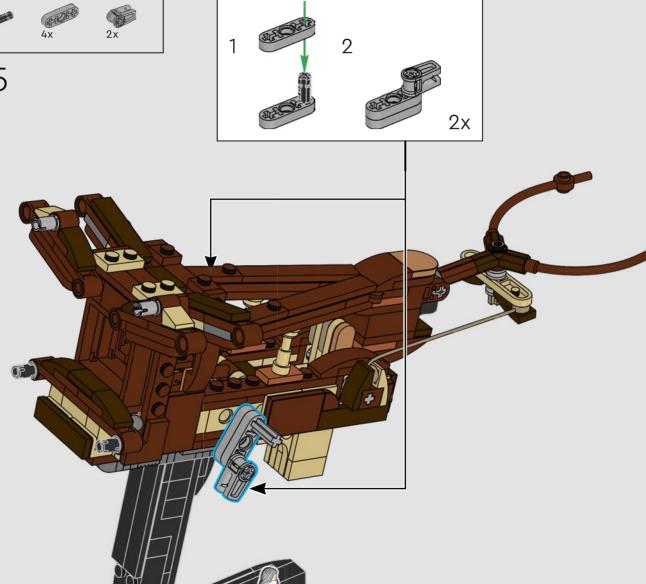






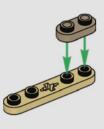




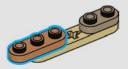




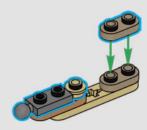








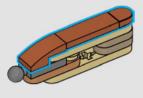




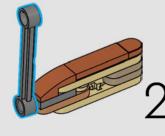


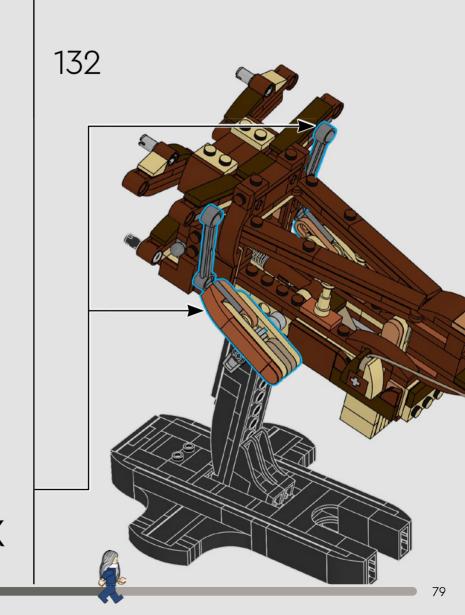






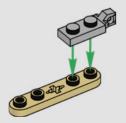




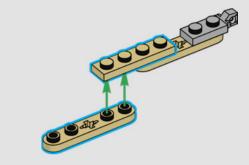




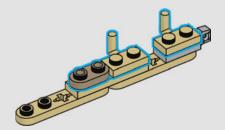


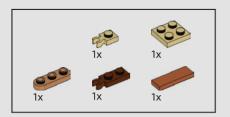


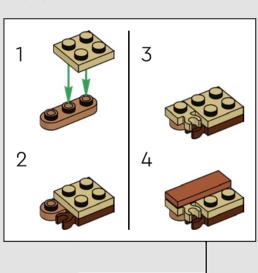


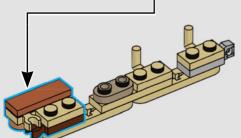




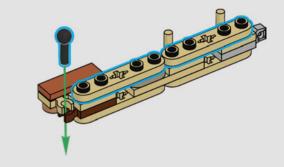


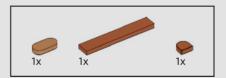


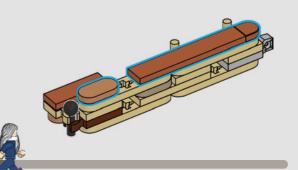




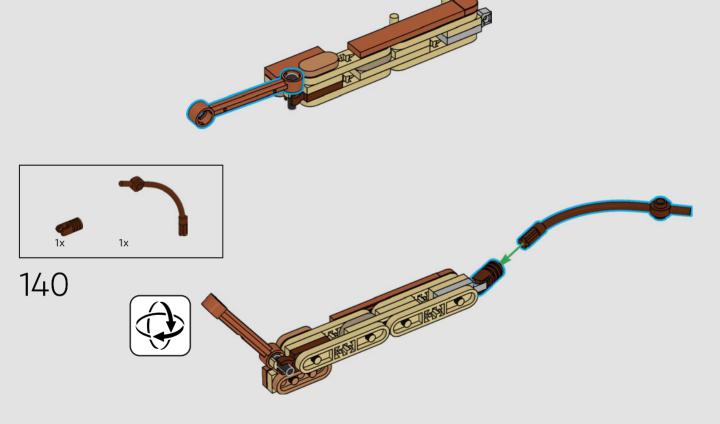


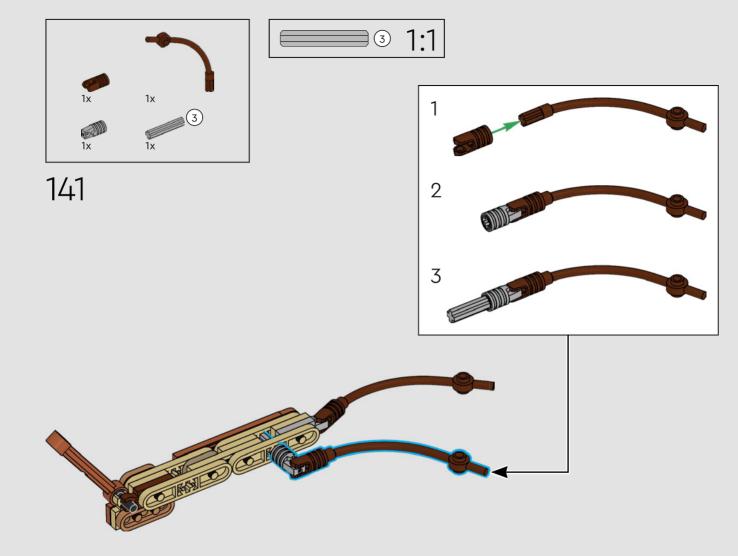




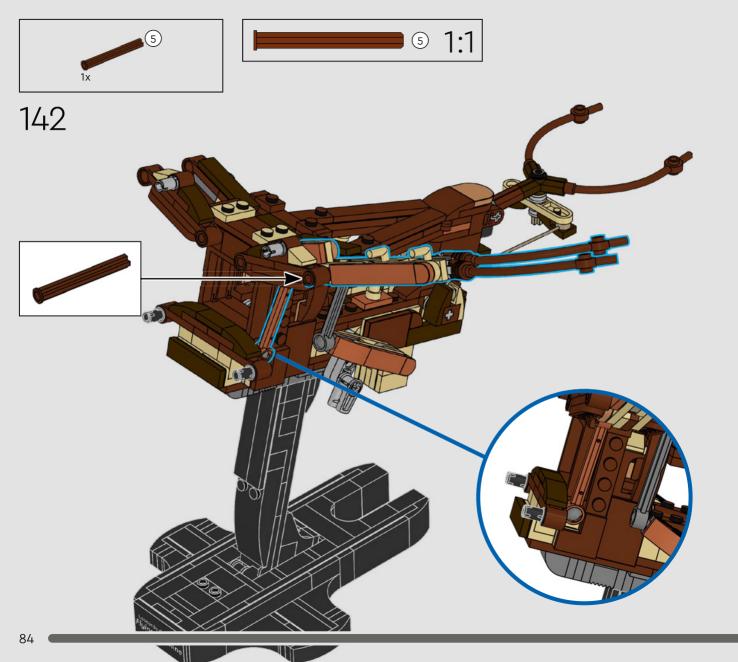






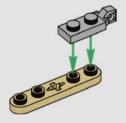


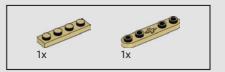


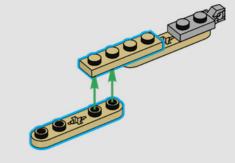




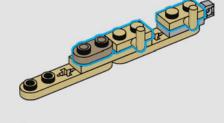




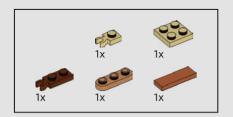


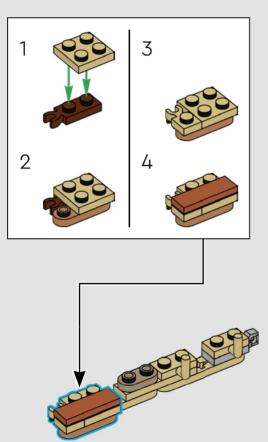




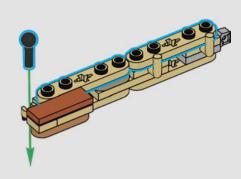


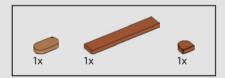


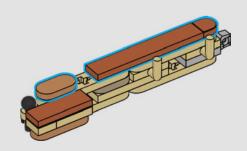




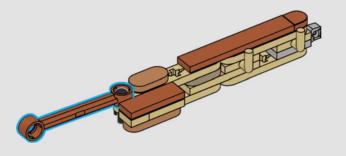


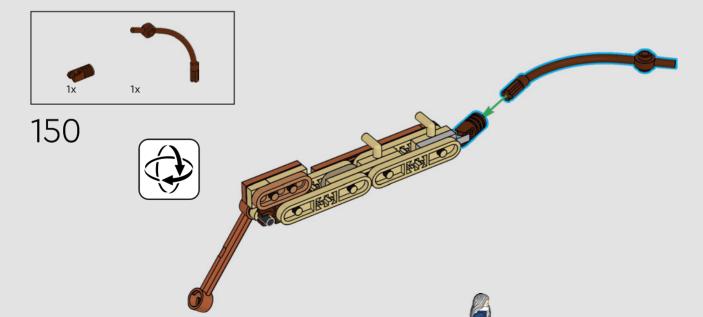


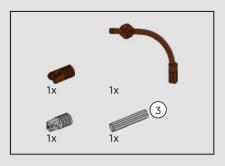


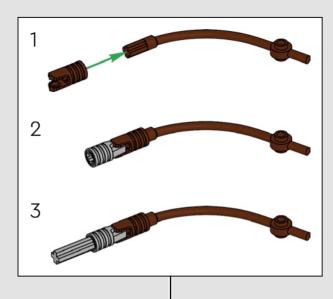


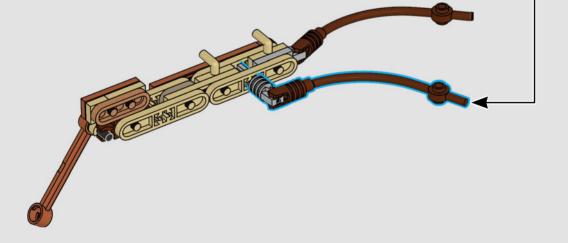




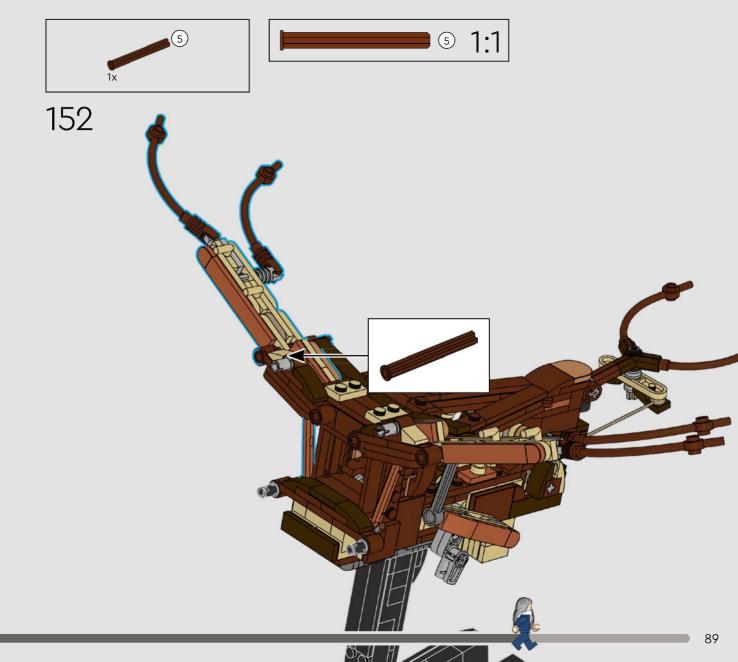


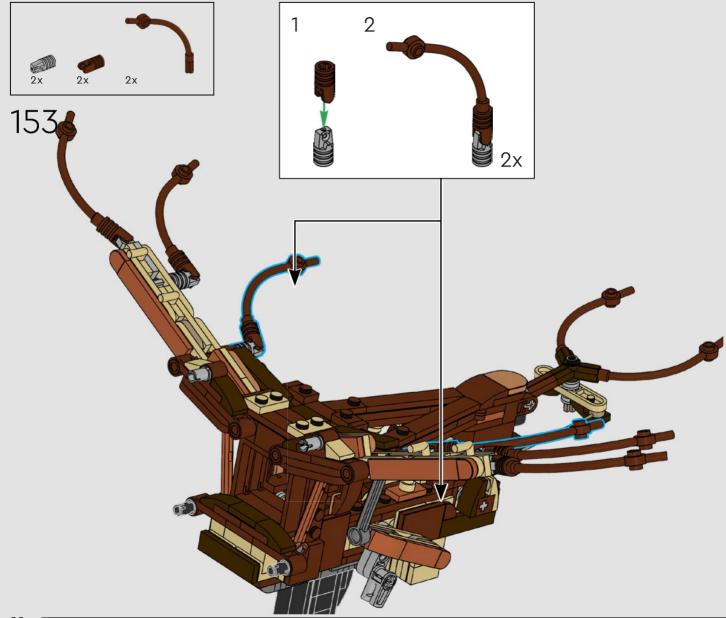


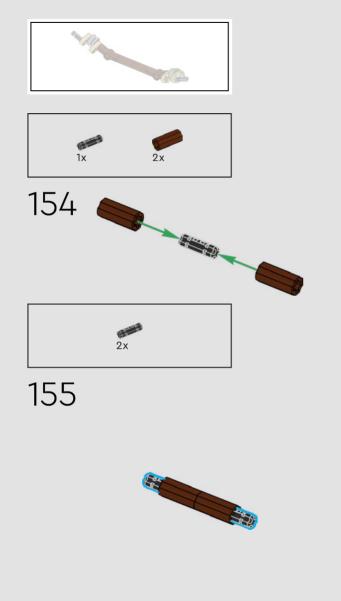








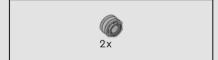




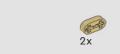






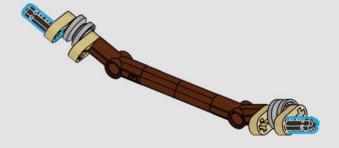






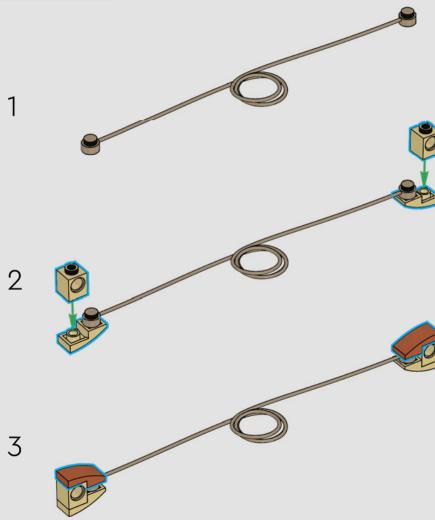


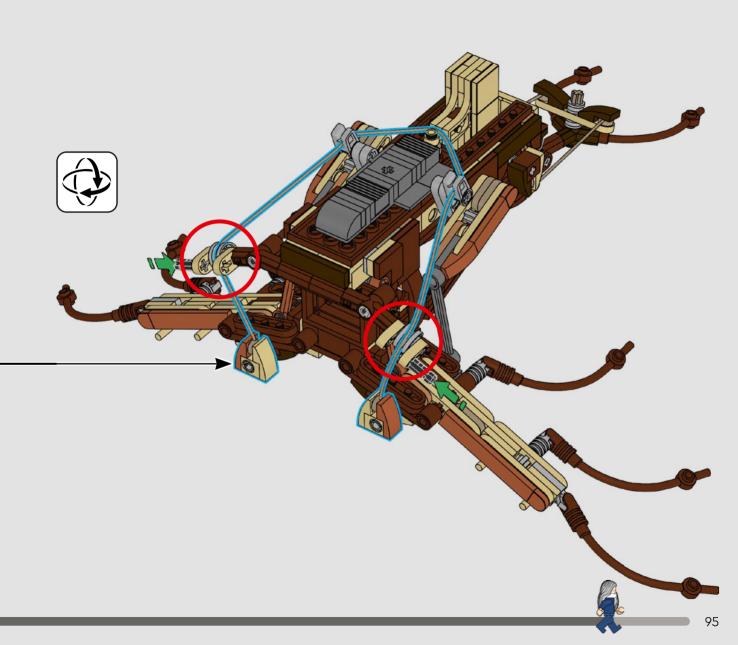




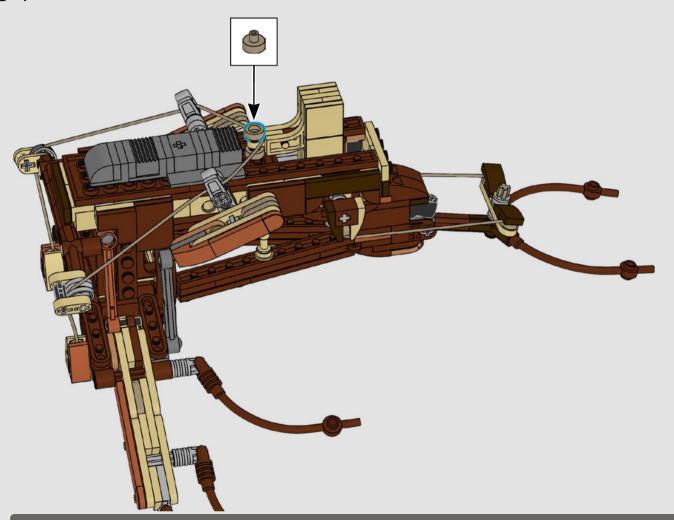


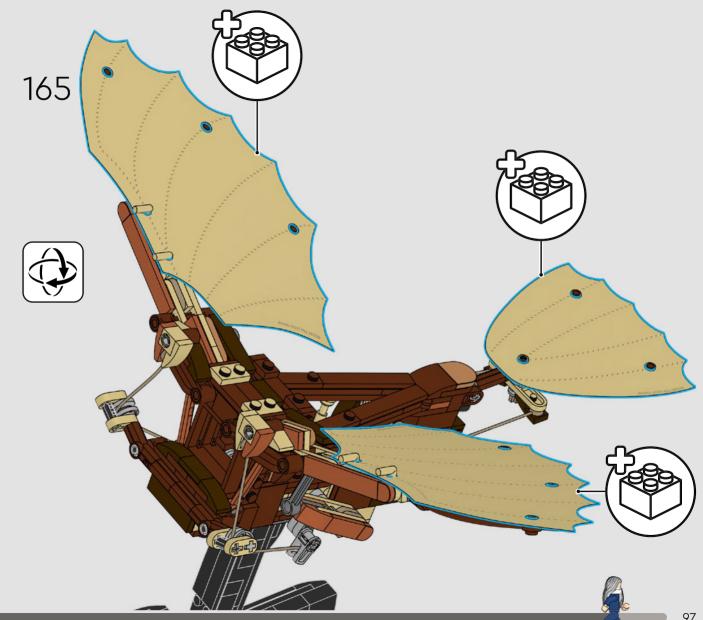


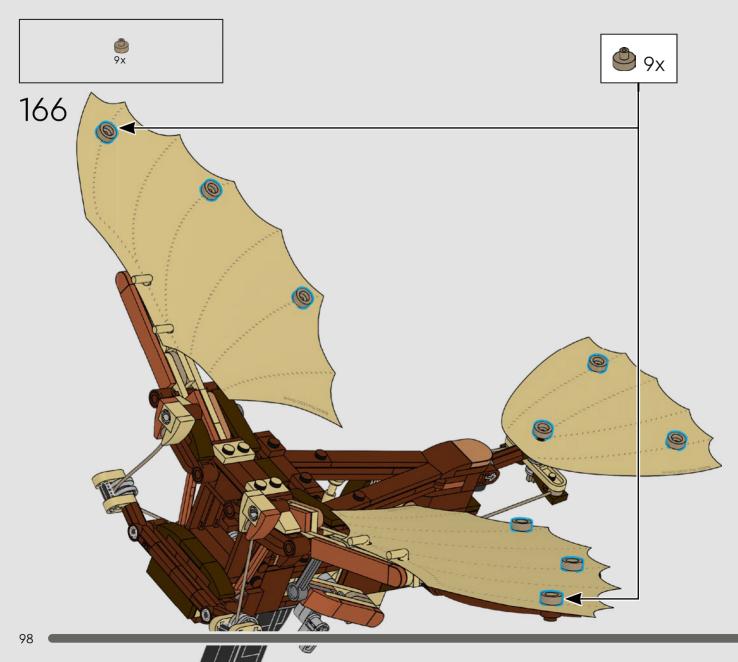






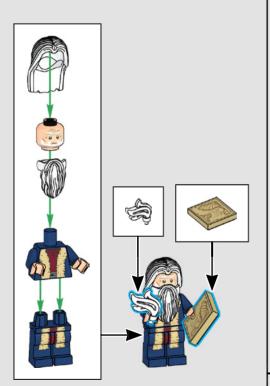






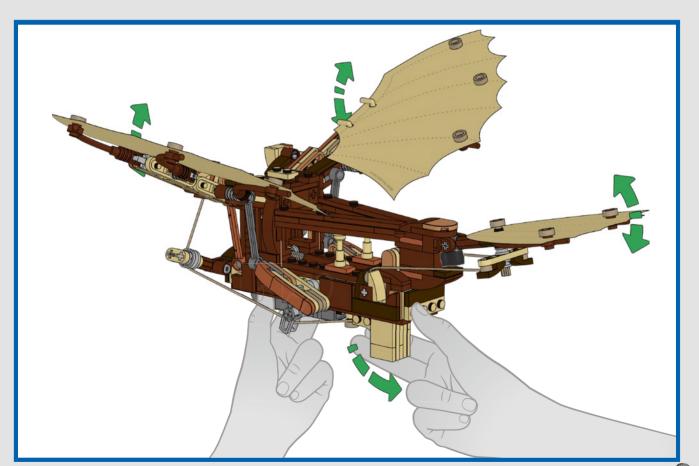


El diseño permite accionar el gatillo con el modelo en, al menos, tres situaciones distintas: apoyado en la base, sujeto con una mano y manipulado a dos manos (sosteniéndolo con una y accionando el gatillo con la otra).





Uno de los desafíos del diseño fue decidir dónde colocar el gatillo de la función de aleteo a fin de que las manos del constructor no interfirieran con ninguna parte del mecanismo ni con el cordel.















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