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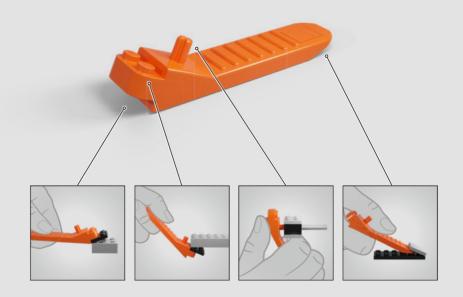




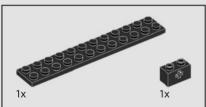
Le message de l'équipe de design LEGO®

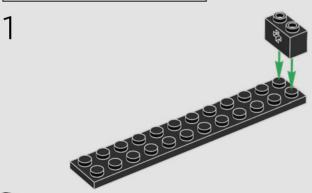
« C'est là que notre travail de conception a commencé : fabriquer une machine équipée de pièces mobiles toutes reliées entre elles et que l'on active en tirant sur des ficelles, ou dans ce cas précis, sur une seule ficelle. Simple à première vue, ce modèle est en réalité un formidable défi d'ingénierie LEGO®. Le modèle semble être fabriqué en bois, en lin et en corde. Le squelette de la queue et des ailes est en briques, tandis que les ailes sont en tissu, orné d'un motif imprimé. Faire de la ficelle en textile la pièce maîtresse du mécanisme de battement des ailes était un défi incroyable! Les pièces mécaniques du modèle sont exposées afin de mettre en valeur les parties fonctionnelles et la vision de Léonard de Vinci, mais aussi pour laisser notre propre interprétation de la conception d'origine prendre son envol. »

Antica Bracanov Senior Designer LEG0®

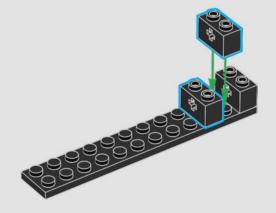




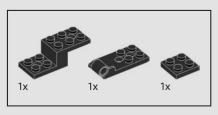


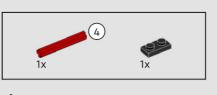


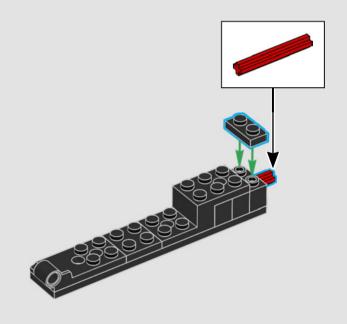


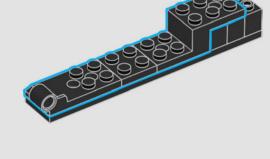










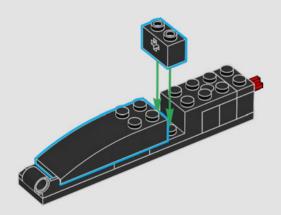


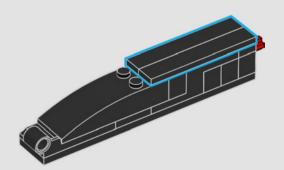


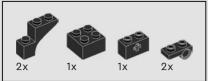


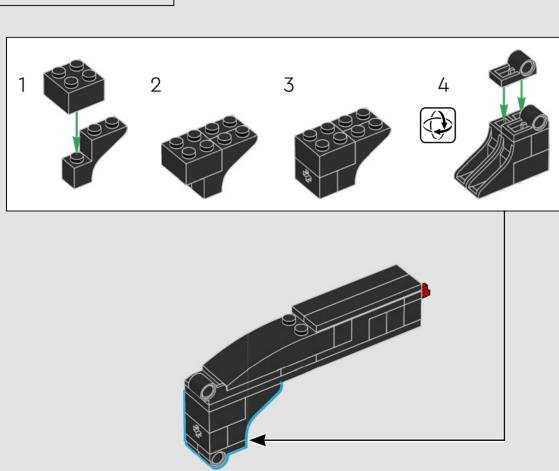






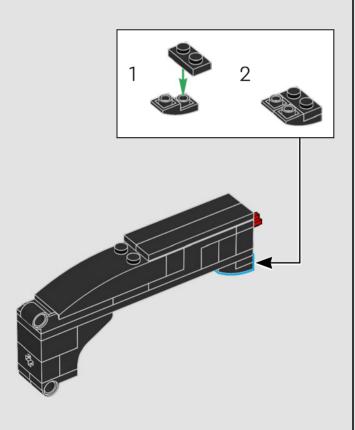




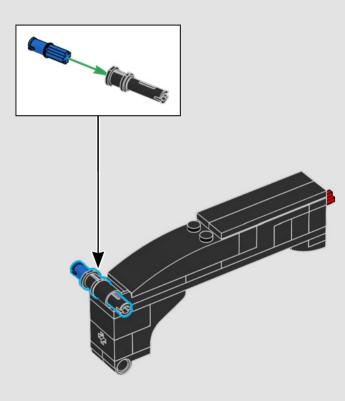


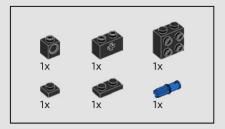


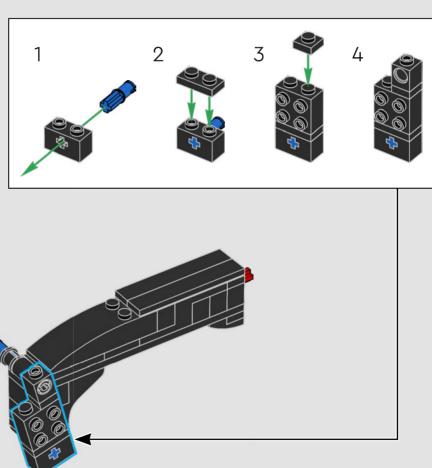




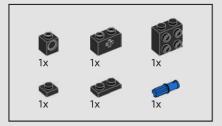


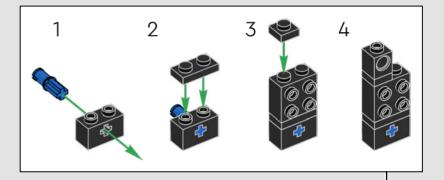


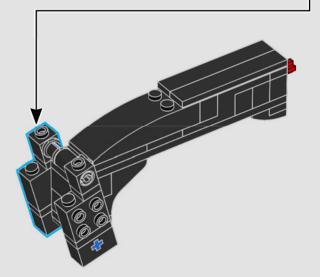






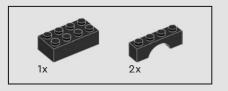


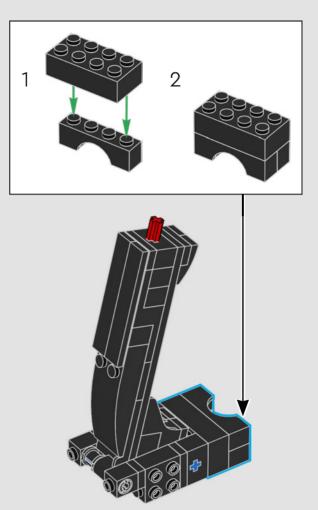




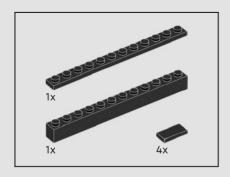


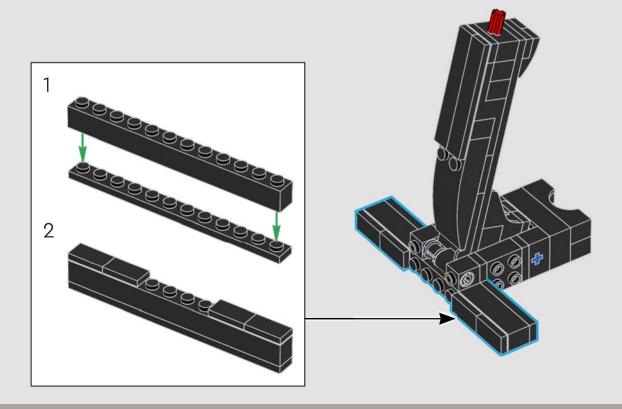
L'une des machines de Léonard de Vinci, connue sous le nom de Il Grande Nibbio, a été inspirée et nommée d'après un oiseau de la famille des Accipitridés : le cerf-volant.

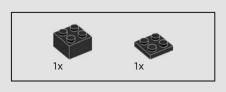






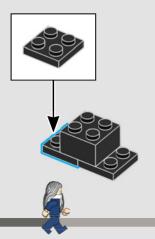










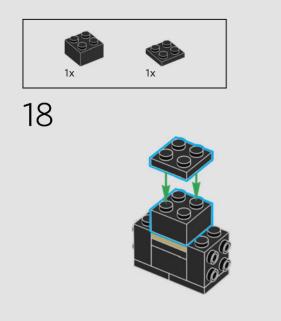


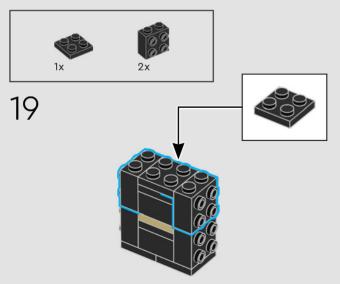




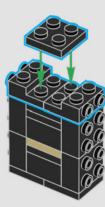










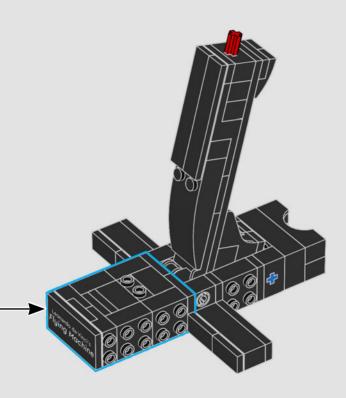






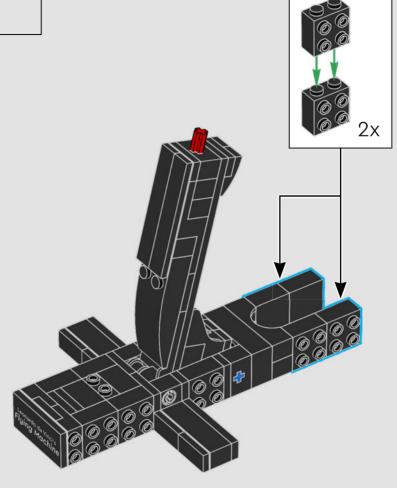


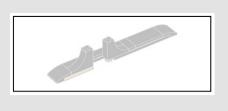
Léonard de Vinci est célèbre pour avoir utilisé l'écriture inversée dans ses carnets. Ses écrits ne pouvaient être lus correctement que s'ils étaient placés devant un miroir.





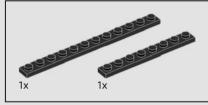


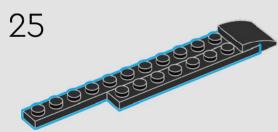




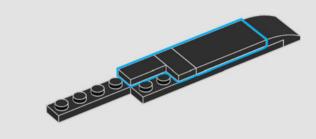








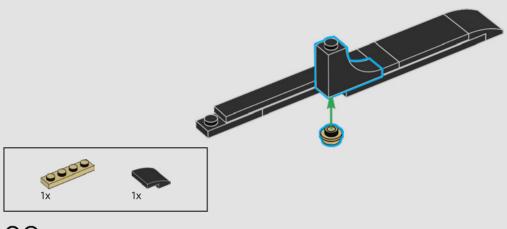


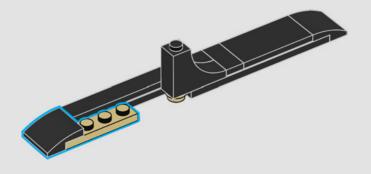




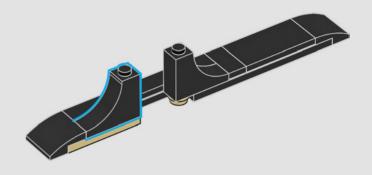


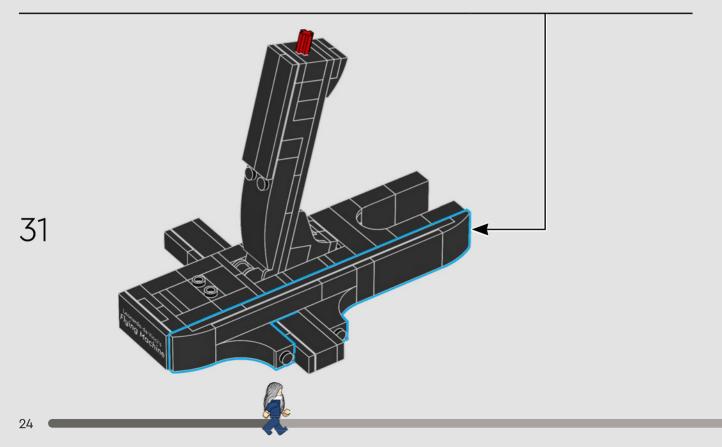






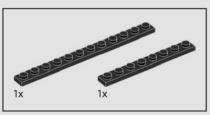


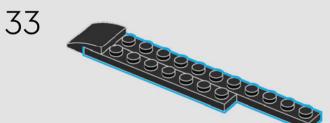




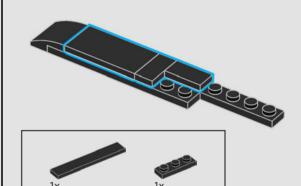


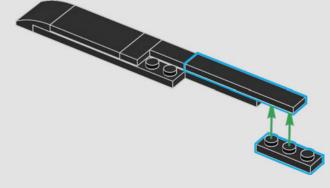




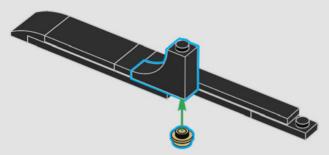




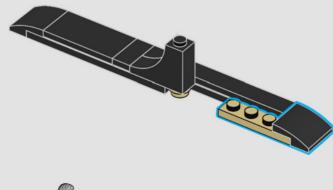




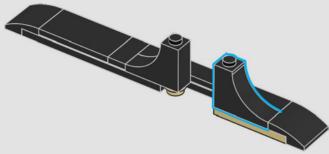


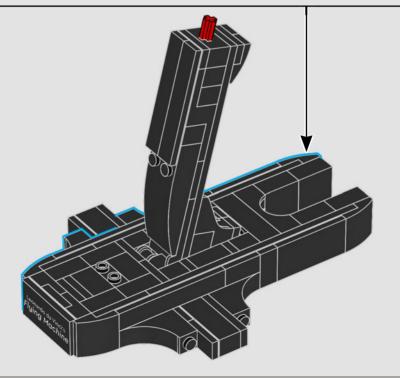




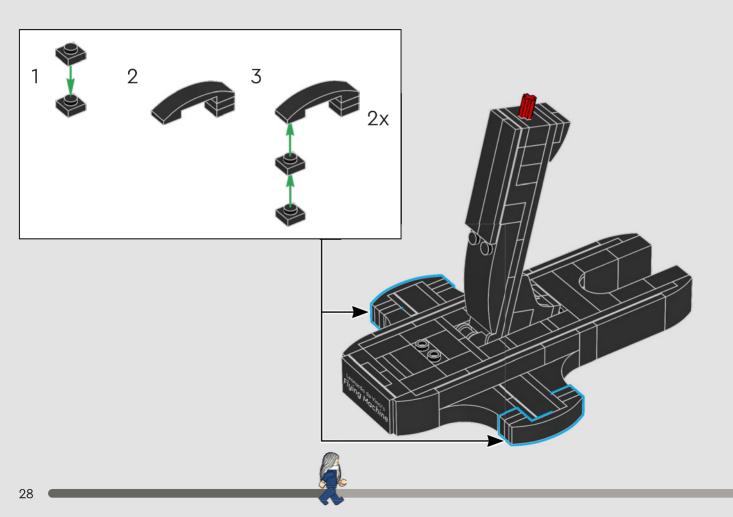








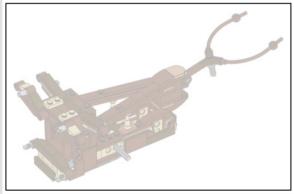




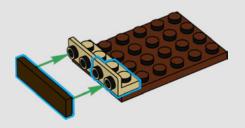








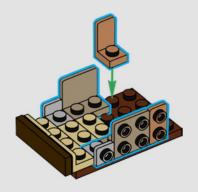




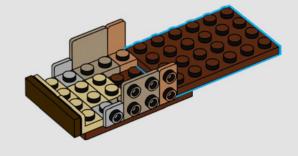


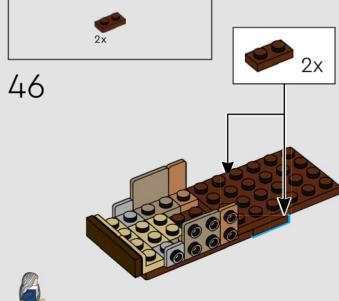




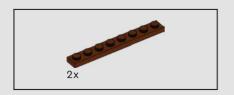


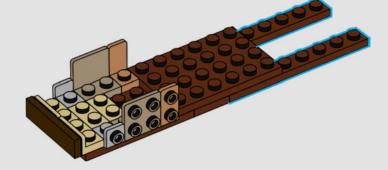


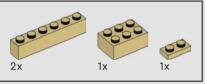


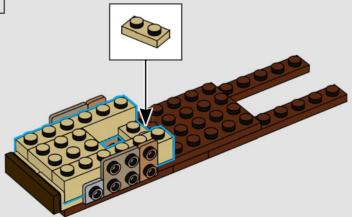


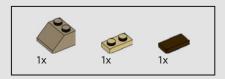


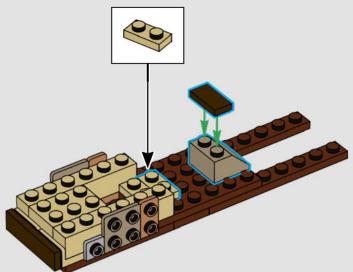




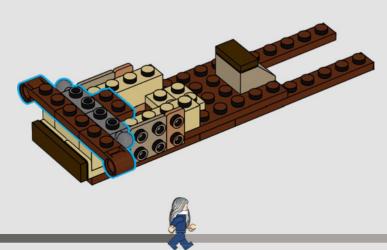






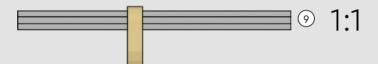




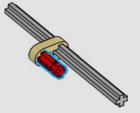


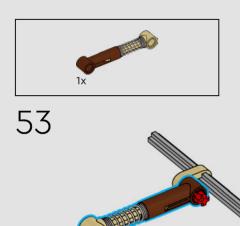




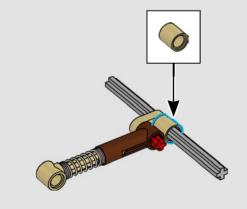




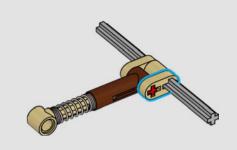




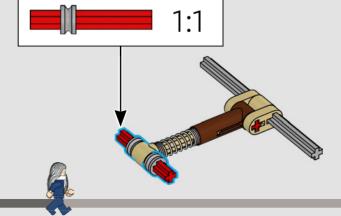




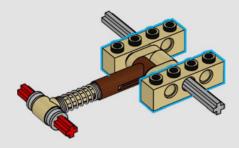


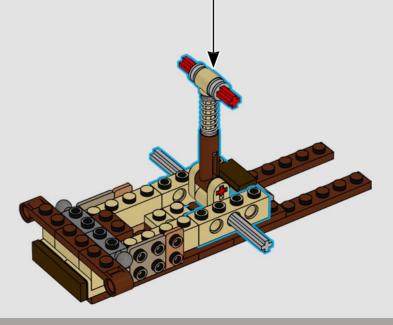




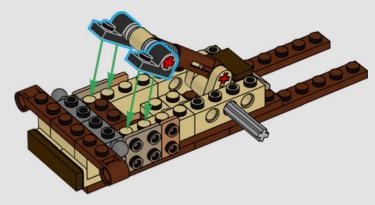




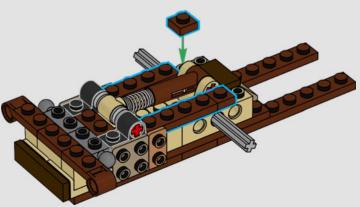






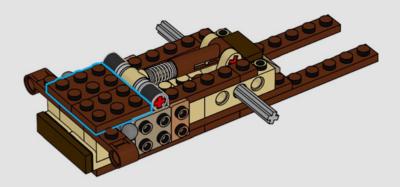




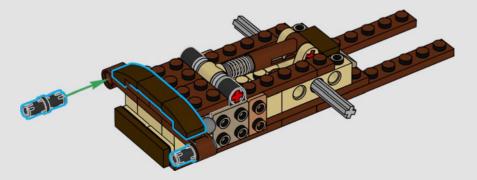




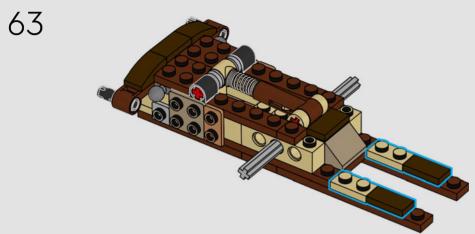


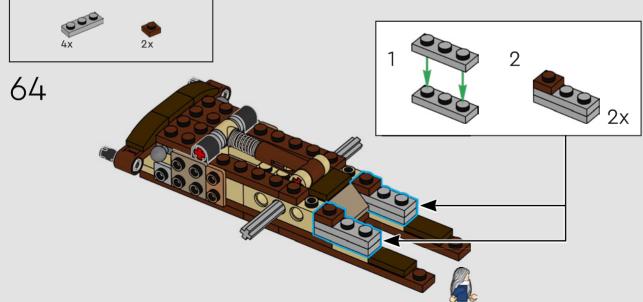














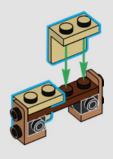






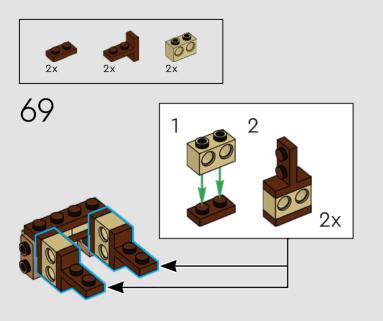


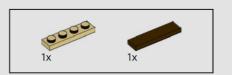


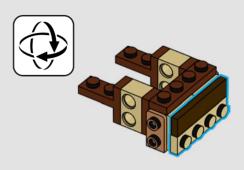


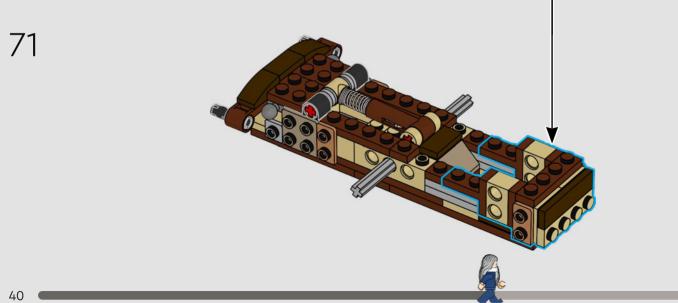




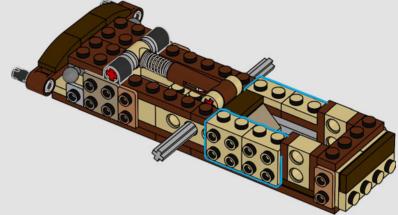




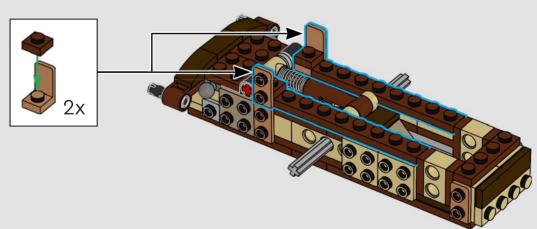




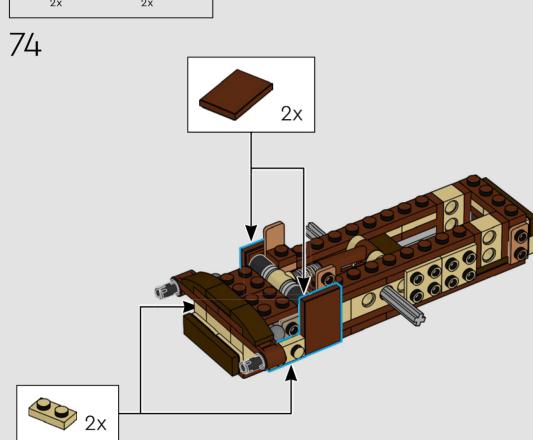




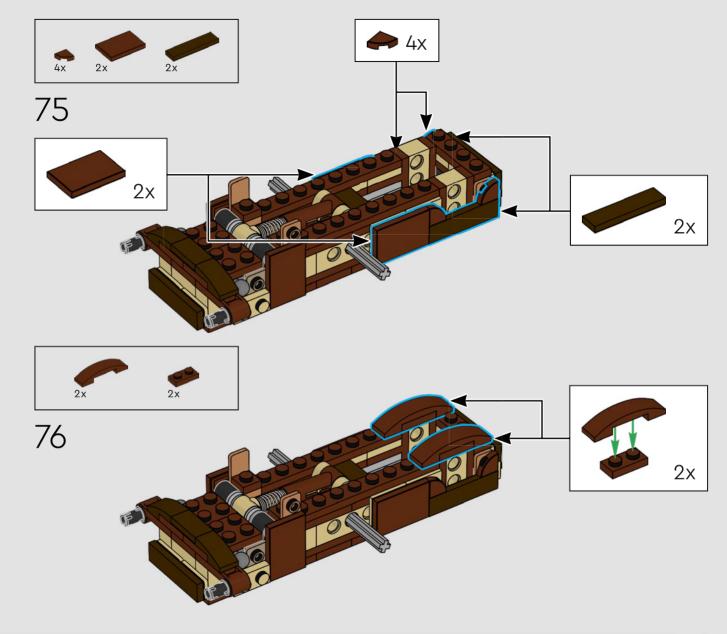




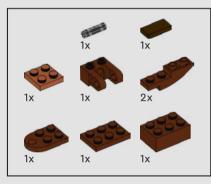














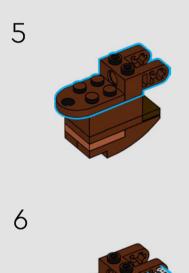


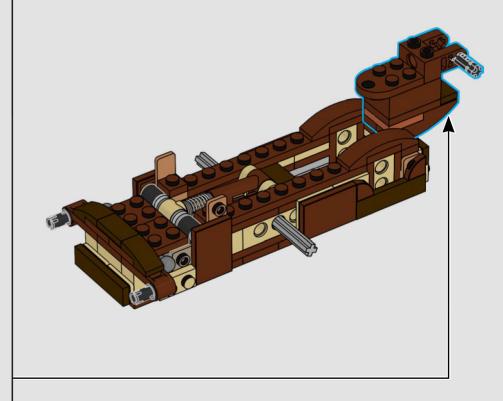


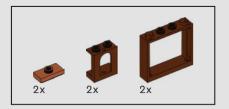


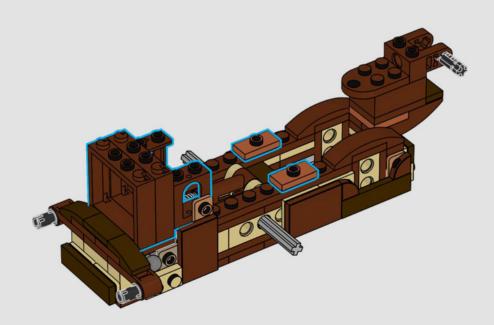


L'ornithoptère de Léonard, construit et testé à basse altitude par un ami de l'artiste, n'a pas été vraiment couronné de succès. La machine s'est écrasée et l'ami de Léonard de Vinci s'est cassé une jambe.

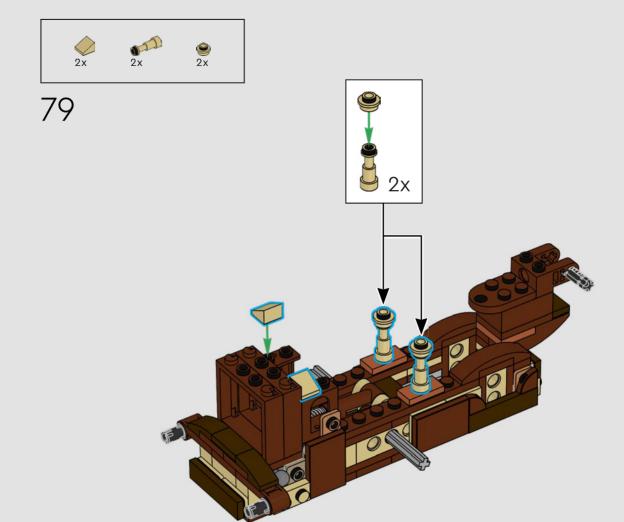














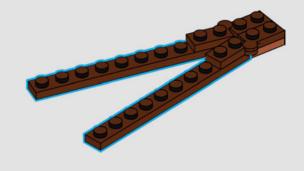






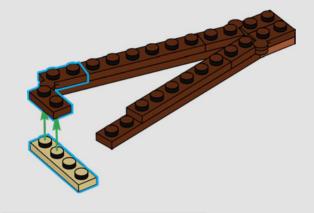




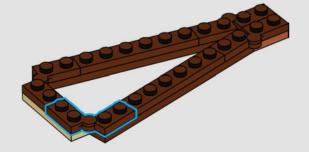


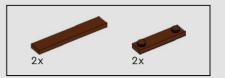


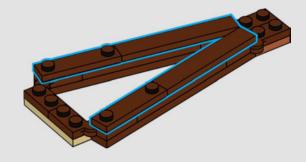


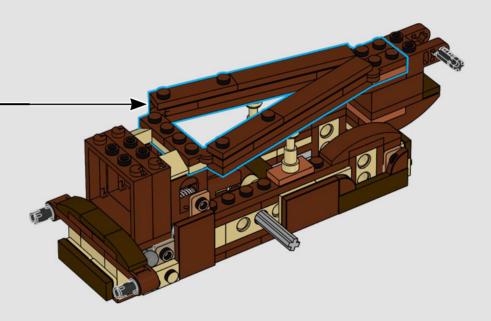




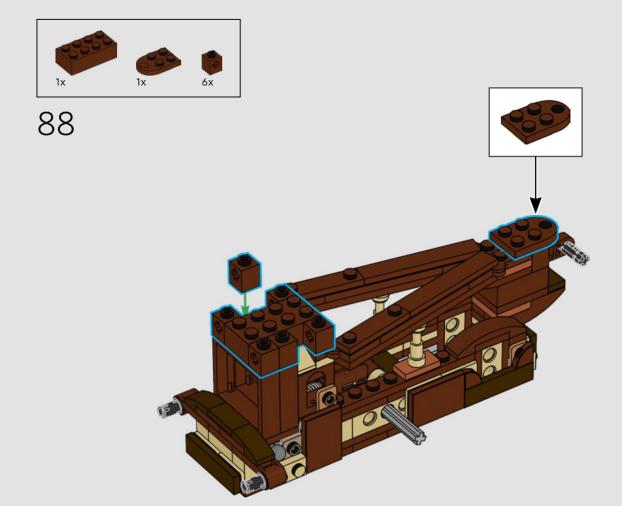




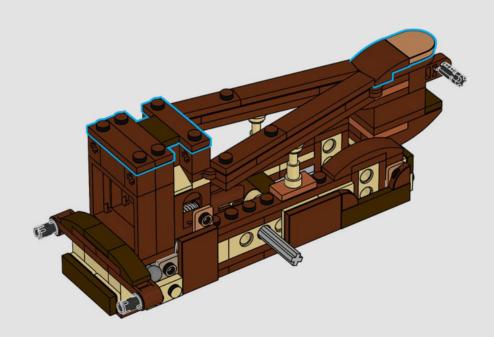










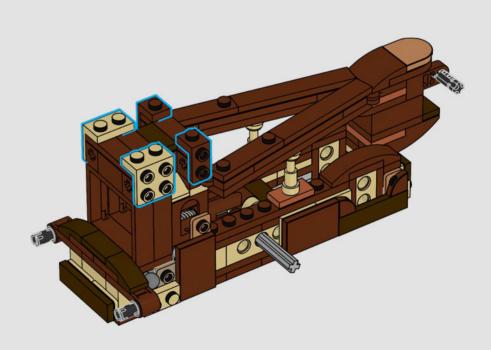




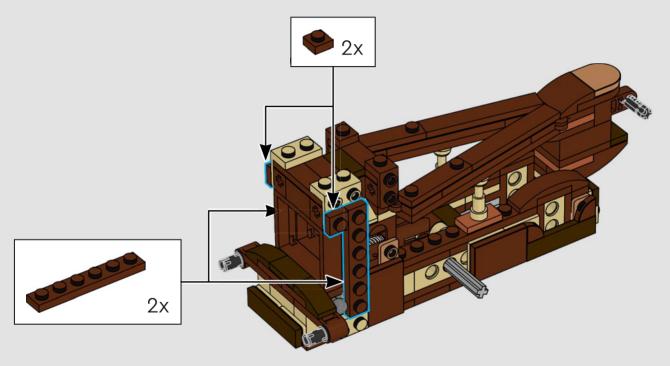




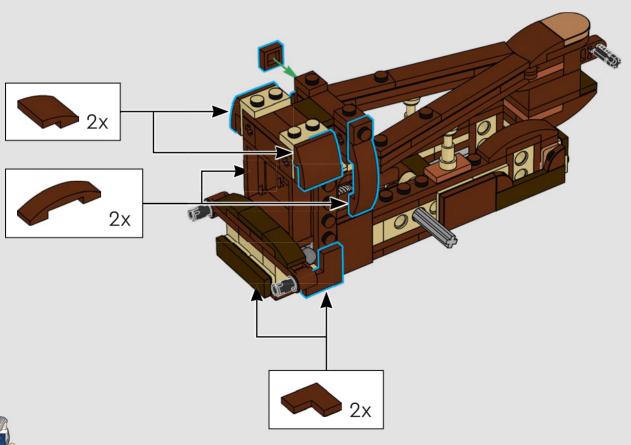
Léonard de Vinci était convaincu que le corps humain pouvait produire suffisamment d'énergie pour alimenter une machine volante.



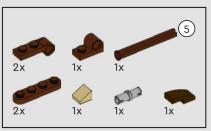




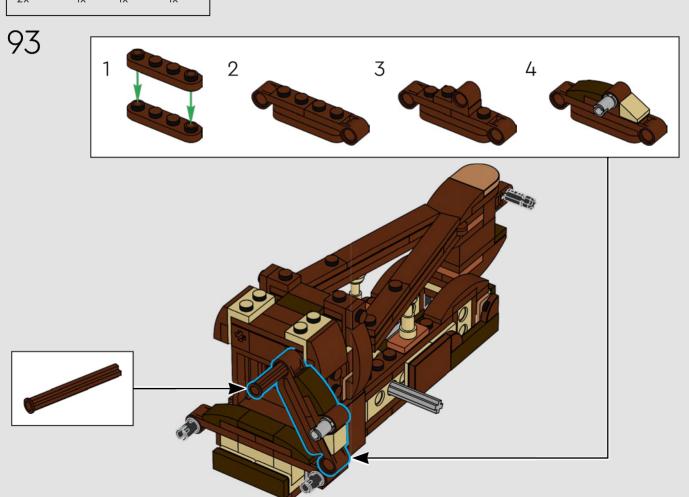


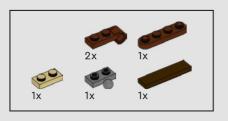


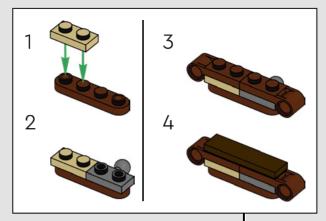


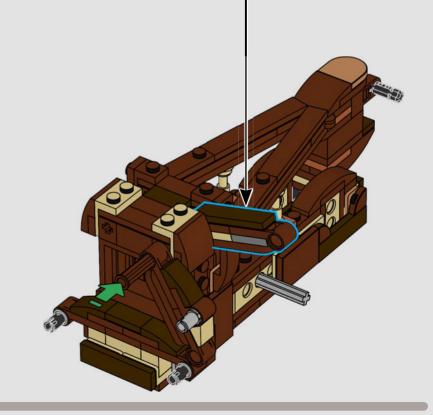




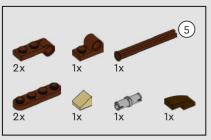


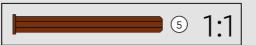


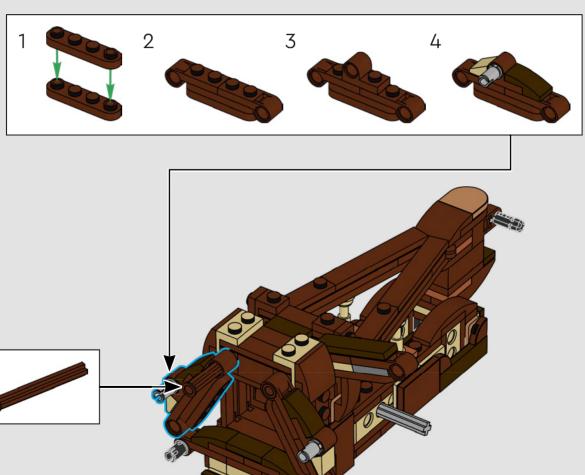


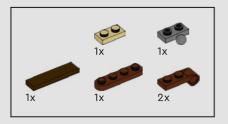


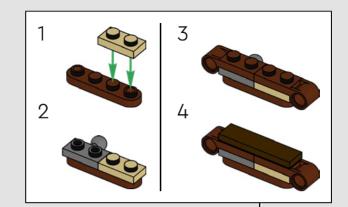


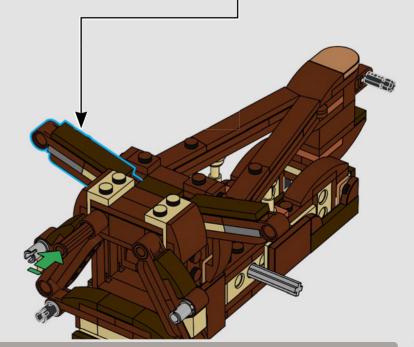






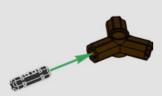














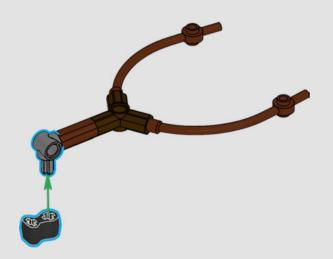
Ses croquis présentent différentes machines volantes pilotées par une personne à l'aide de divers mécanismes de propulsion : certains sont actionnés par les jambes, d'autres par les jambes et les bras, et d'autres encore par des gouvernails reliés à la tête du pilote.

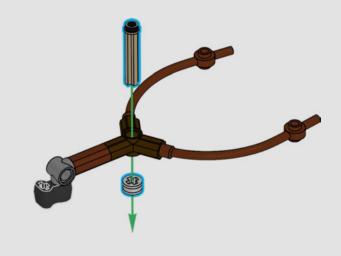






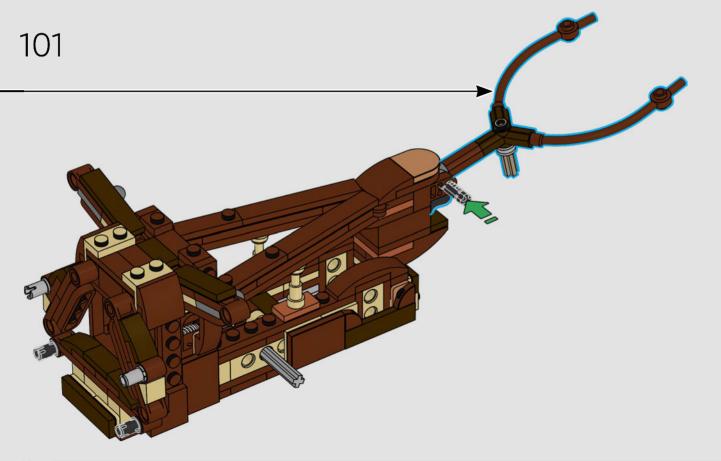






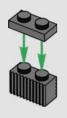


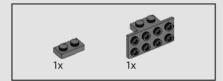


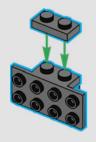




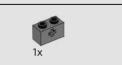


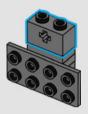








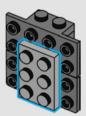






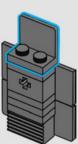




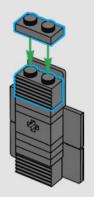




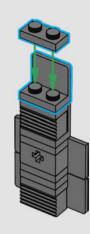




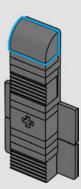




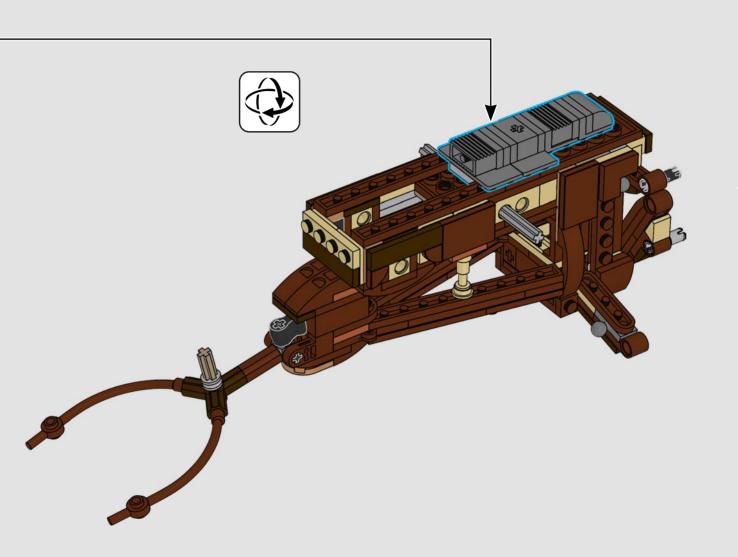


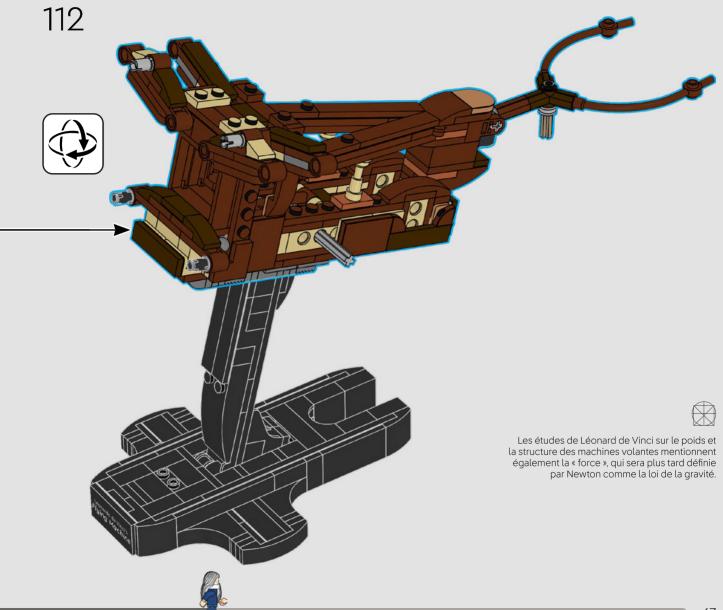














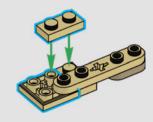




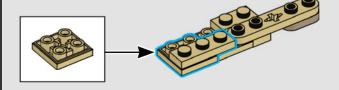




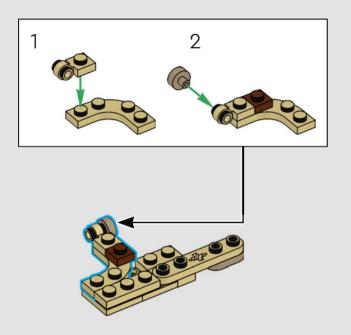




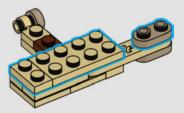




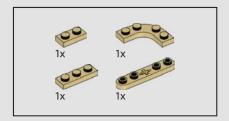


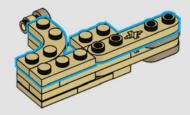


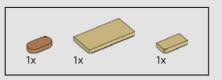


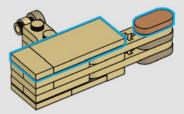


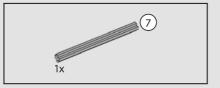


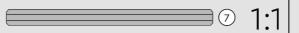


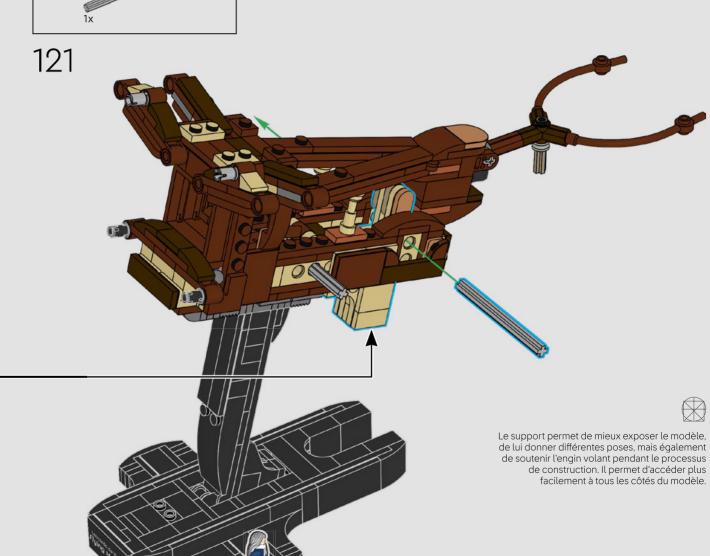


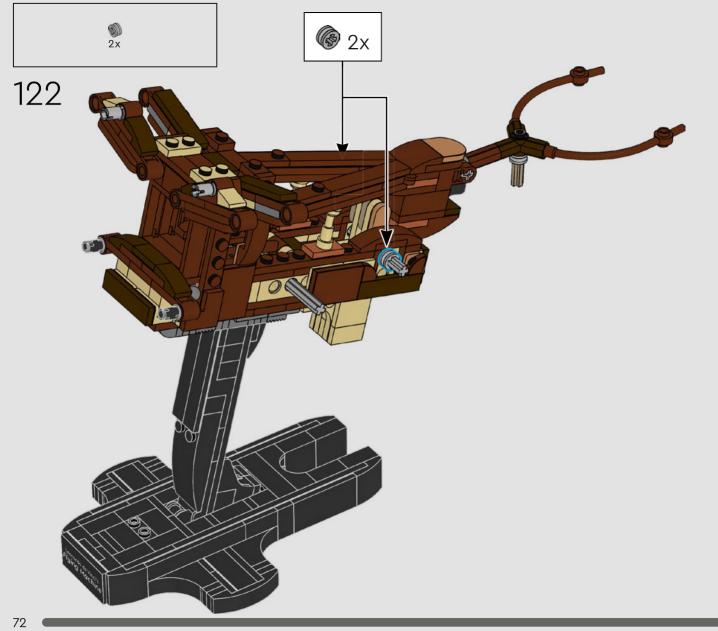


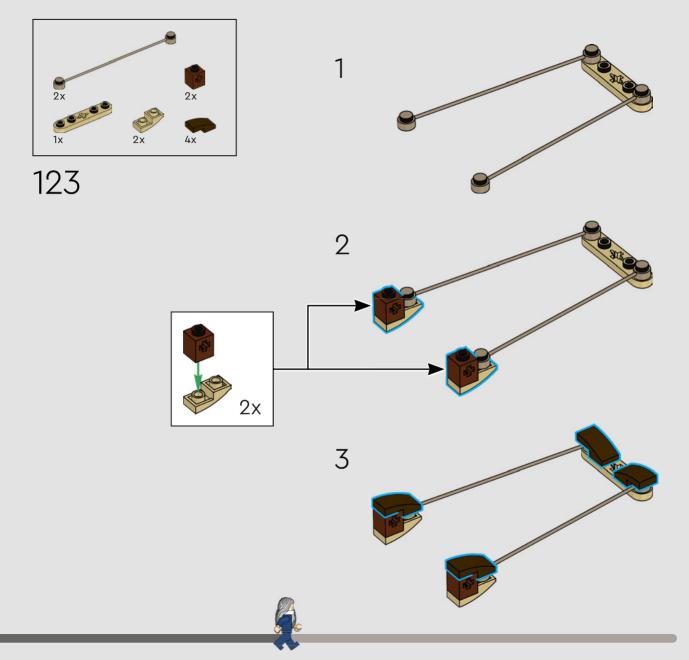


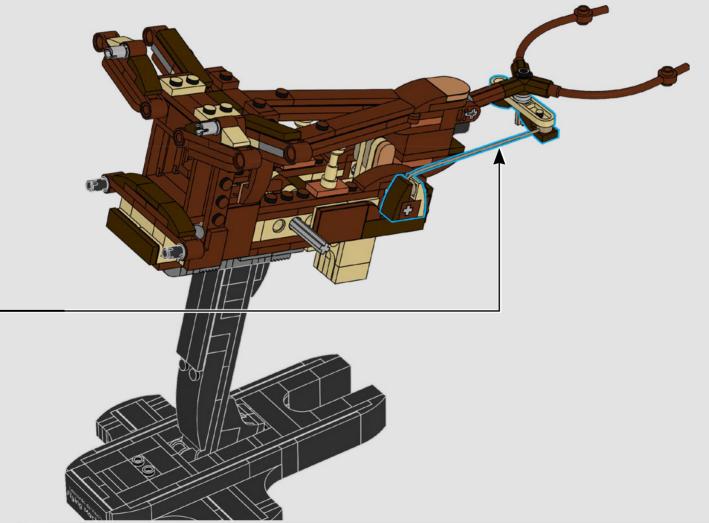




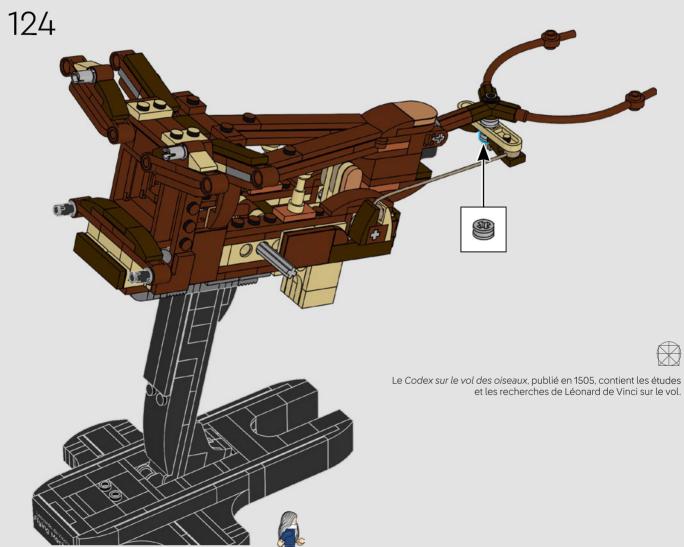


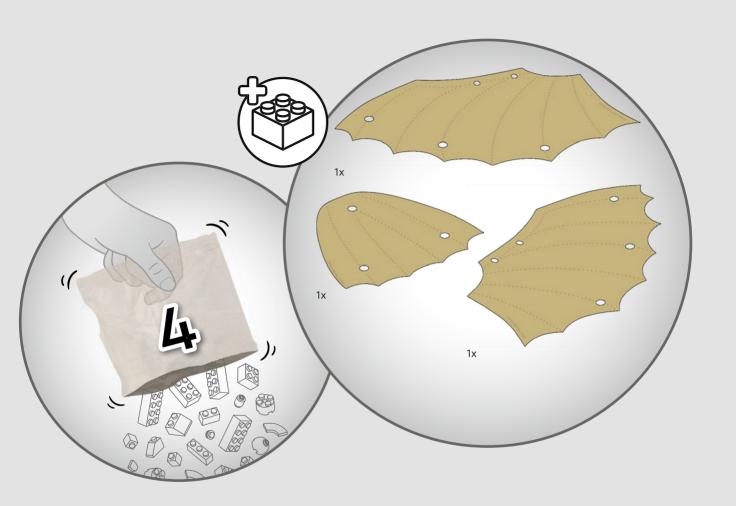




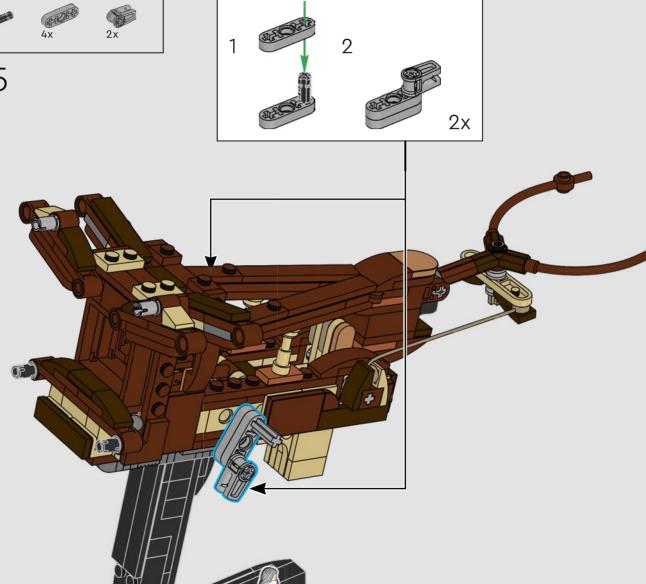






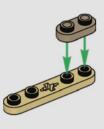




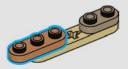




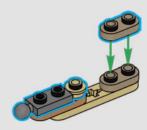








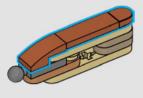




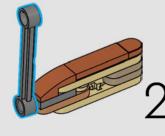


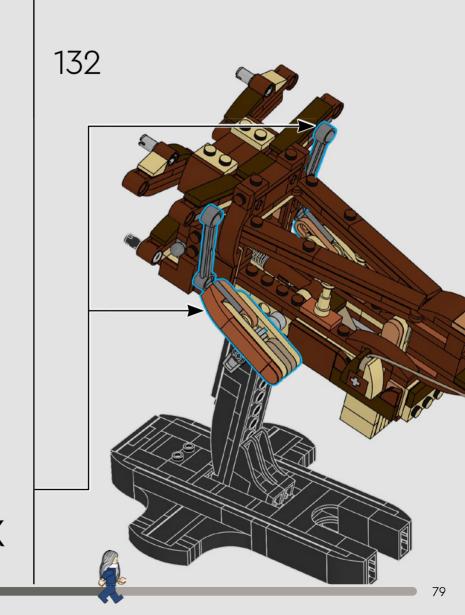






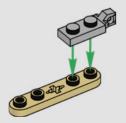




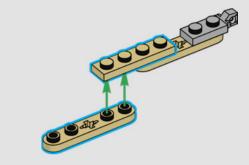




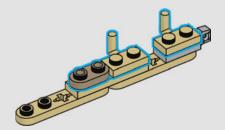


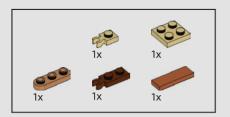


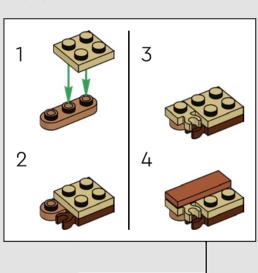


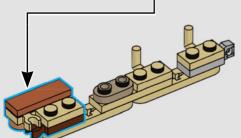




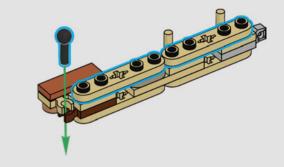


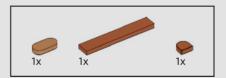


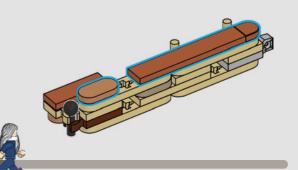




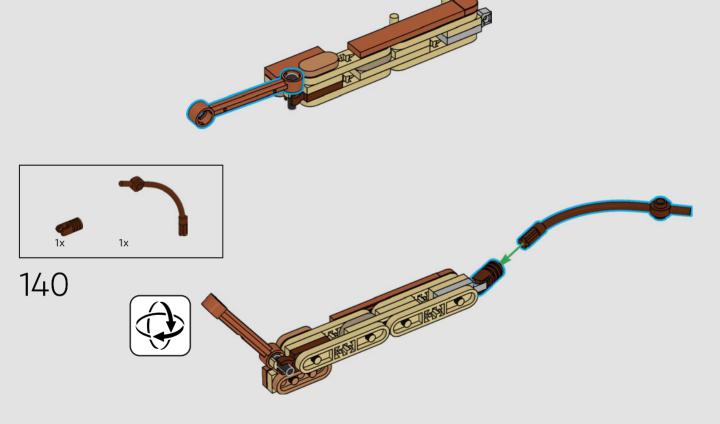


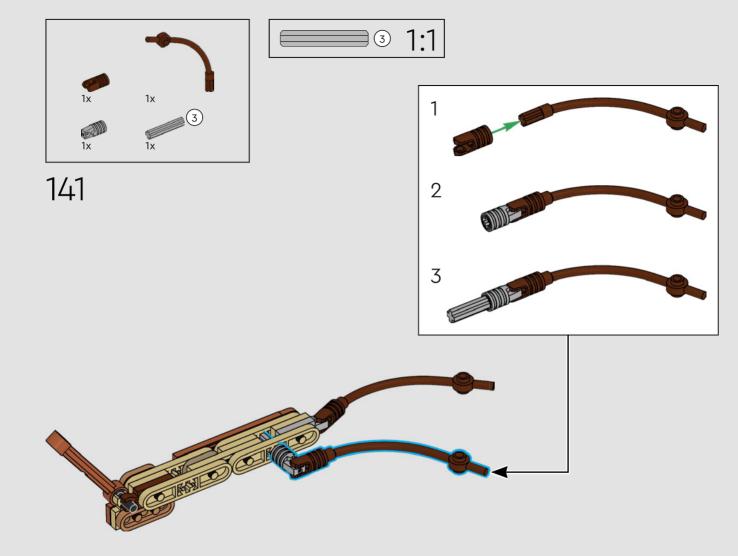




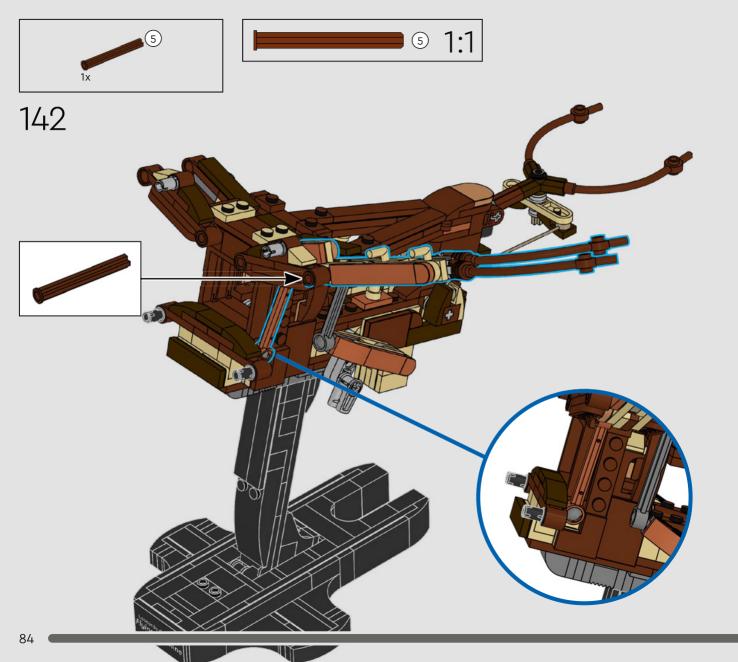






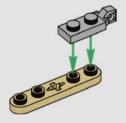


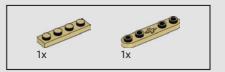


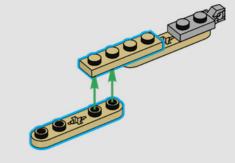




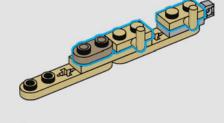




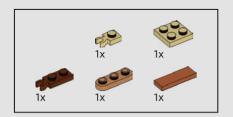


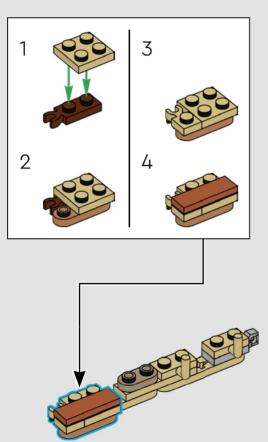




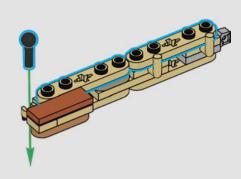


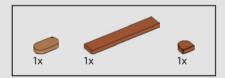


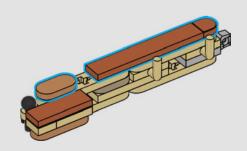




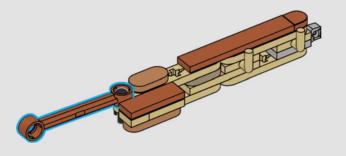


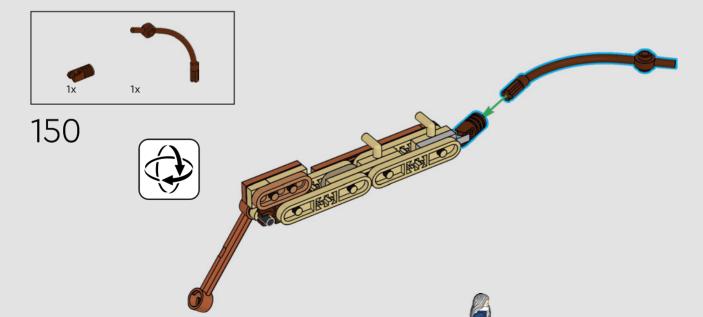


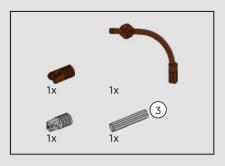


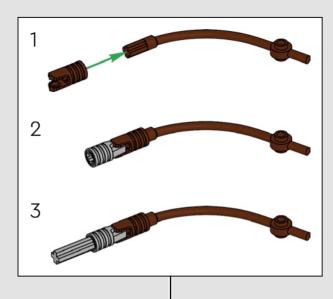


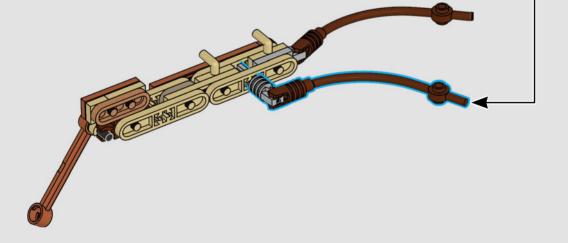




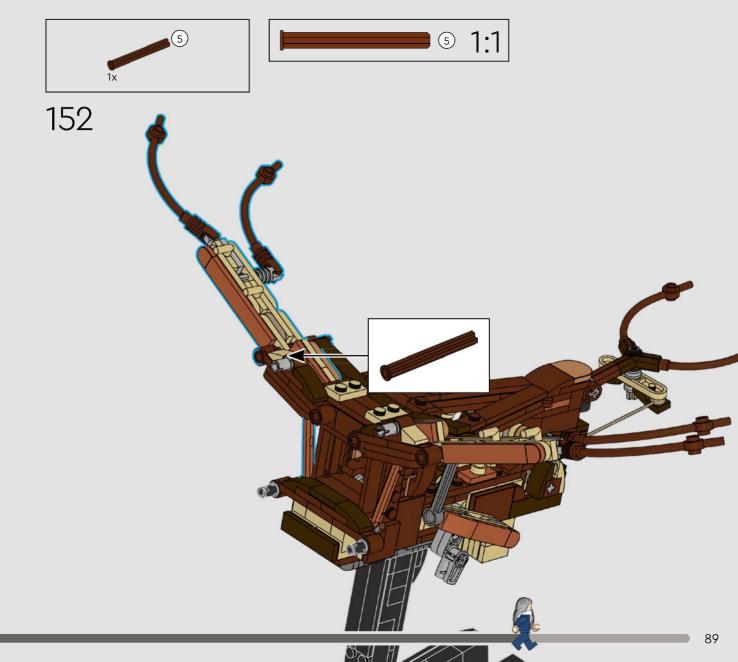


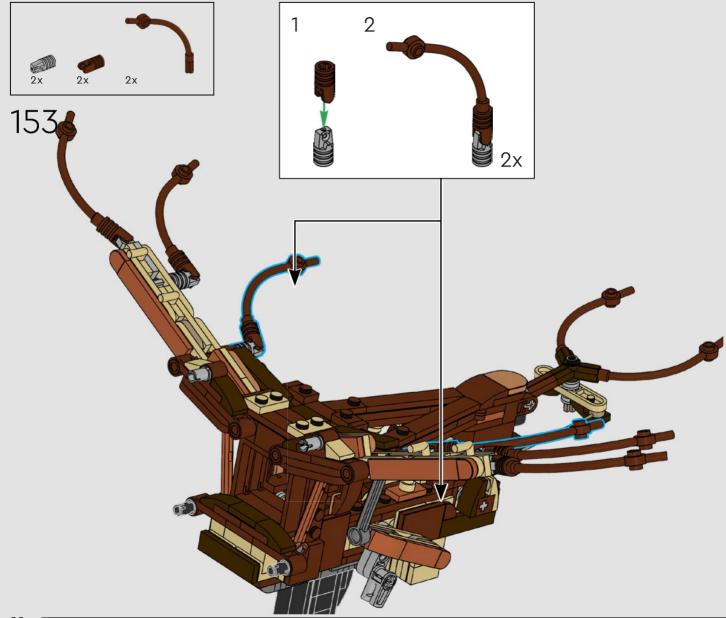


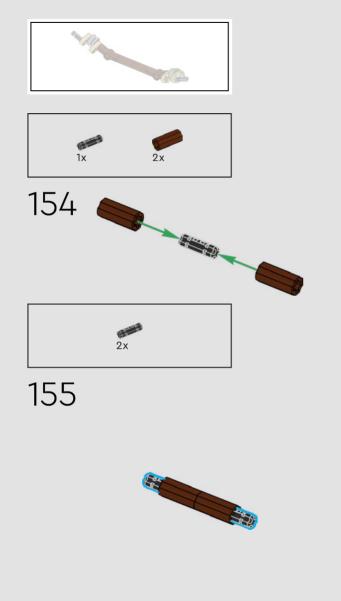








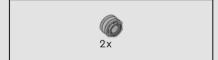




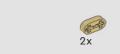






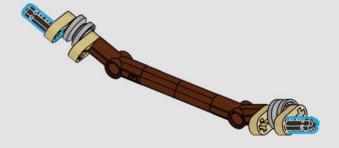






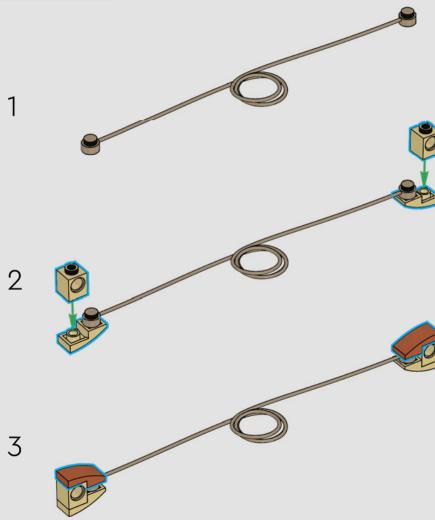


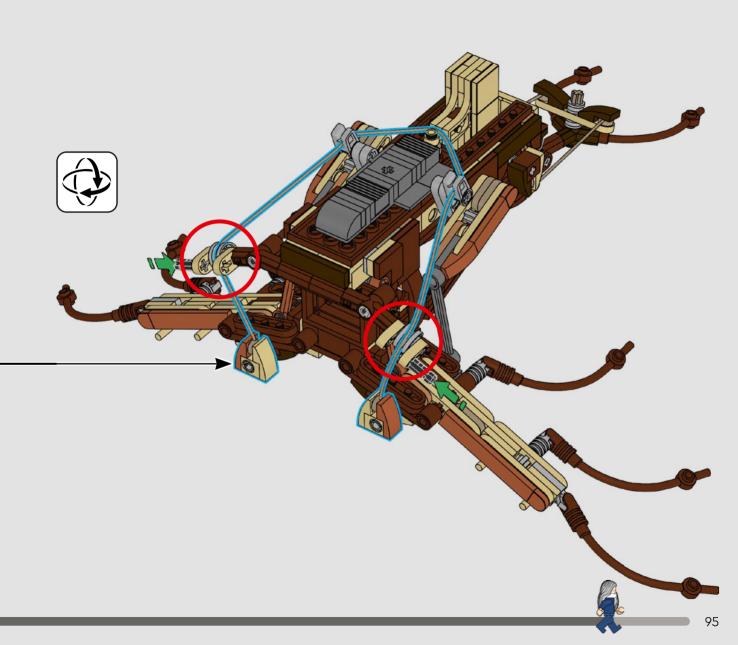




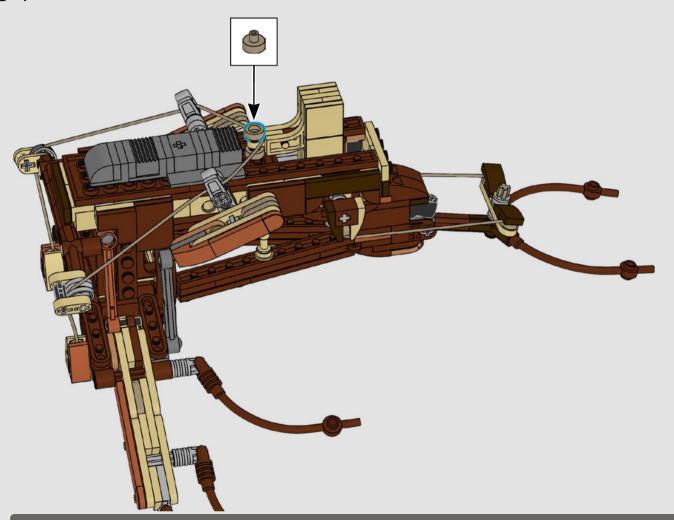


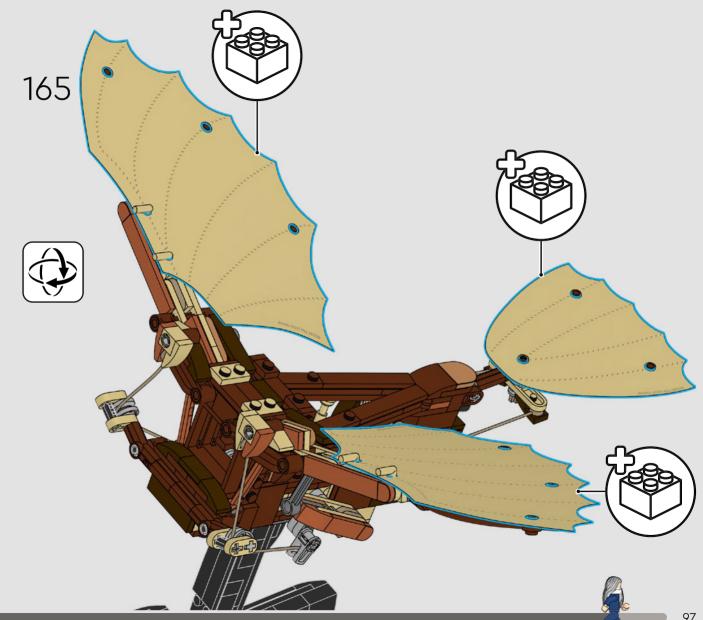


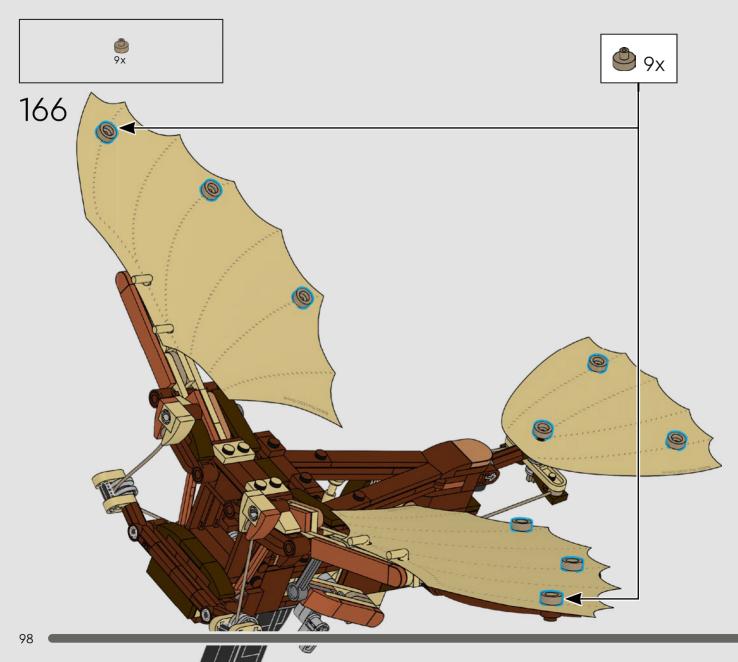




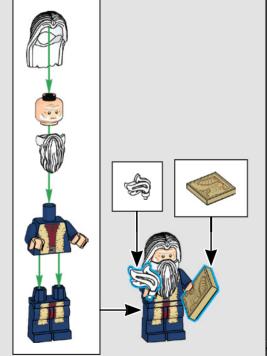




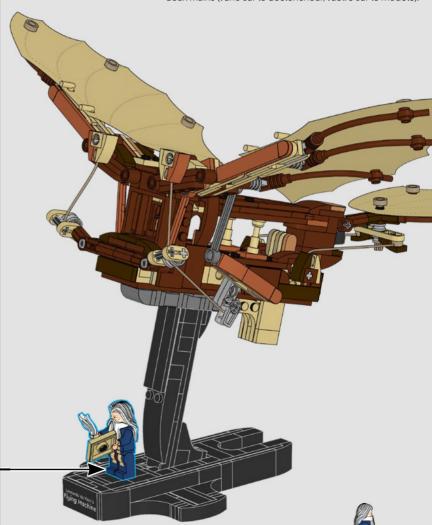






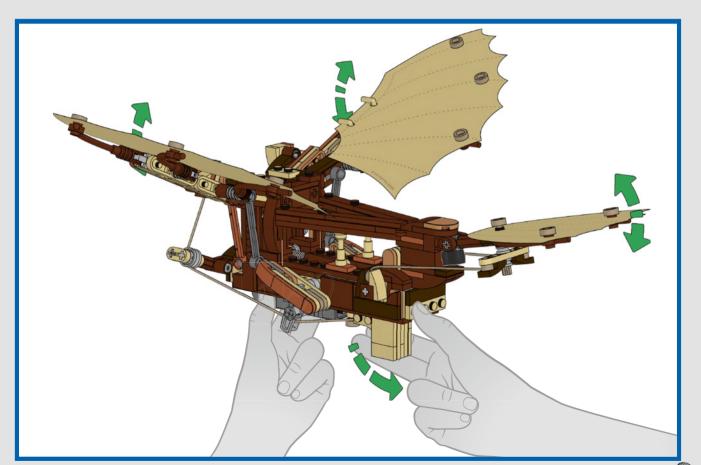


Le modèle a été conçu de manière à ce que le déclencheur puisse être actionné de trois façons différentes : lorsque le modèle est posé sur le support, tenu d'une main et tenu à deux mains (l'une sur le déclencheur, l'autre sur le modèle).





Lors de la conception, l'un des défis a été de déterminer l'emplacement du déclencheur pour la fonction de battement, pour éviter que les mains des constructeurs gênent les pièces du mécanisme ou les ficelles.















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