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Q LEGO.com/devicecheck



Q LEGO® Builder







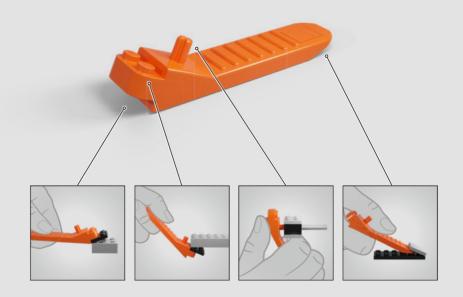


Il Design Team LEGO®

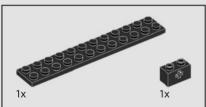
"È da qui che è partita la nostra idea: realizzare una macchina con parti mobili tutte collegate tra loro e attivate da corde o, in questo caso, una singola corda. È un modello apparentemente semplice, ma rappresenta una grande sfida ingegneristica LEGO®. Il modello è progettato per dare l'impressione che sia stato costruito con materiali quali il legno, il lino e la corda. Ha uno scheletro in mattoncini per la coda e le ali, e le ali sono in tessuto con un motivo stampato. Incorporare il filo di tessuto come parte principale del meccanismo di azionamento delle ali è stata una grande sfida! Le componenti meccaniche del modello sono esposte per sottolineare le parti funzionali e la visione di Leonardo e per far prendere il volo alla nostra interpretazione del design originale".

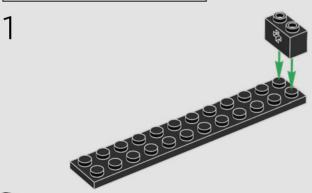
Antica Bracanov

LEGO® Senior Designer

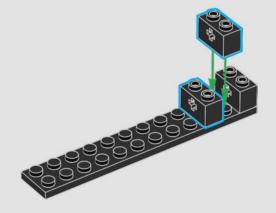




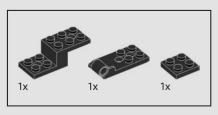


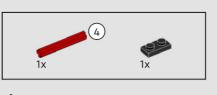


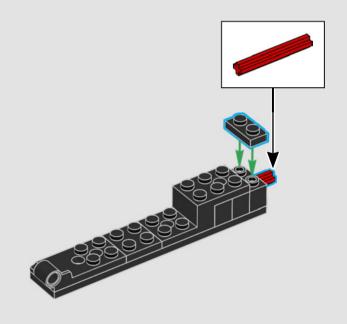


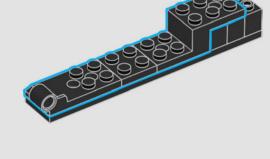










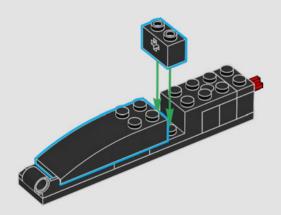


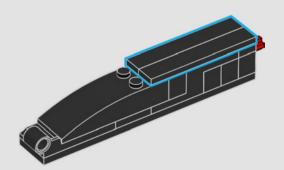


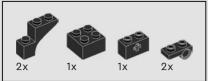


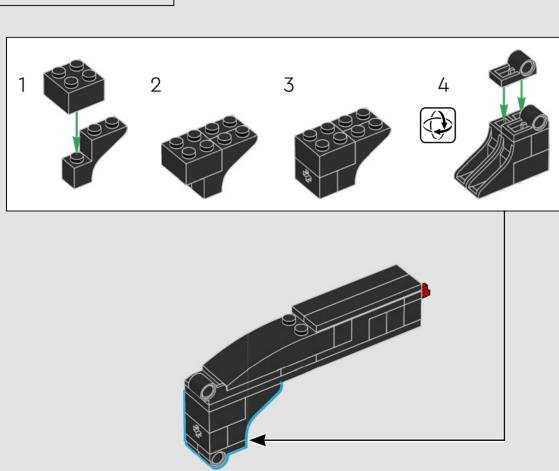






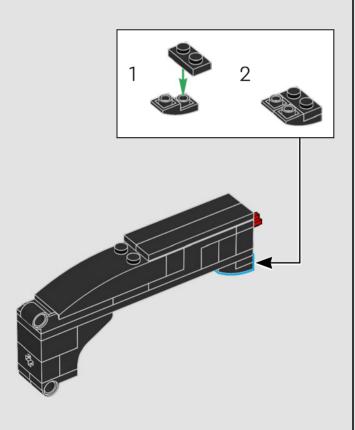




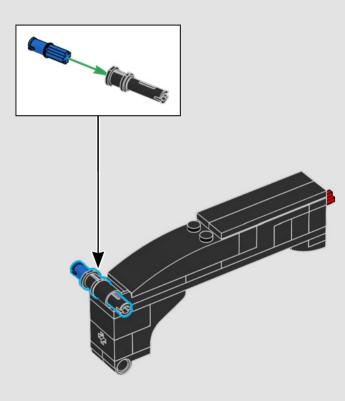


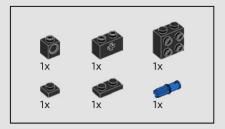


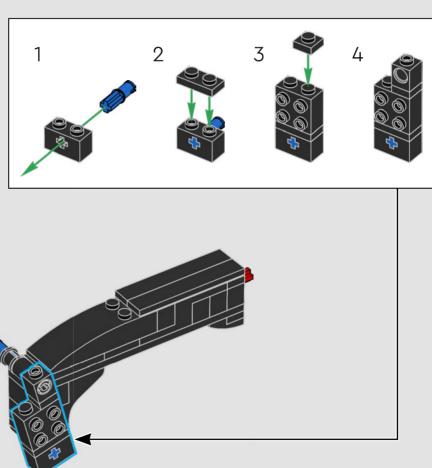




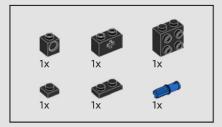


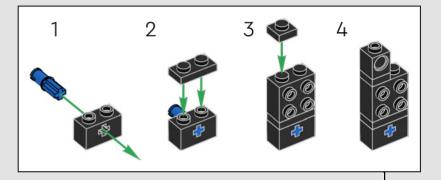


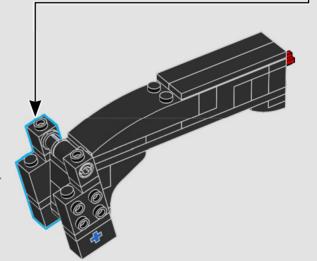






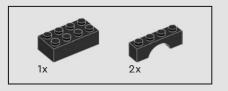


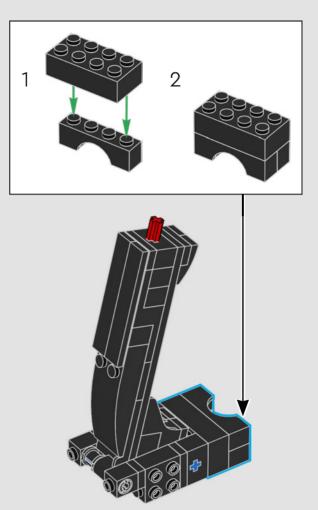




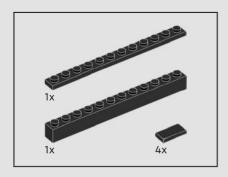


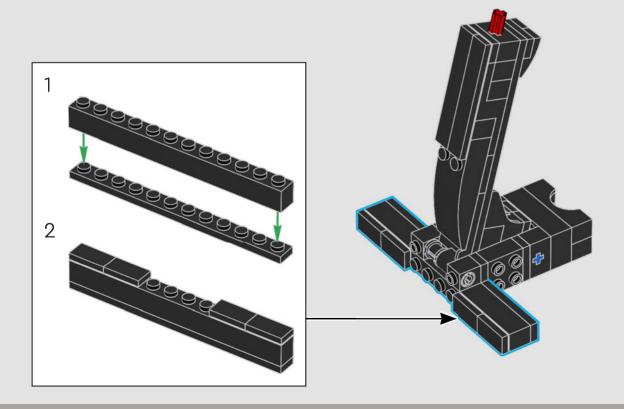
Una delle macchine di Leonardo, conosciuta come Il Grande Nibbio, fu ispirata e prende il nome da un uccello della famiglia degli Accipitridi: il nibbio reale.



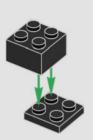








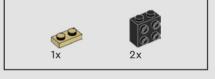




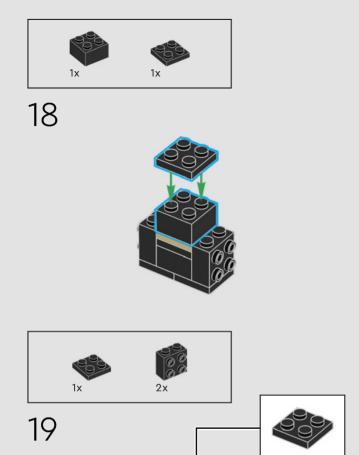
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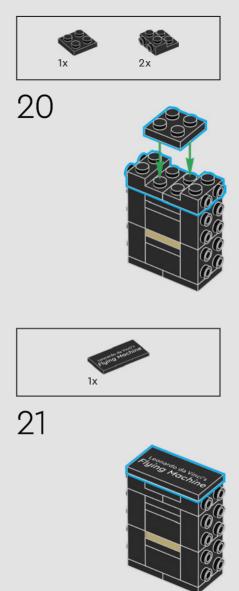






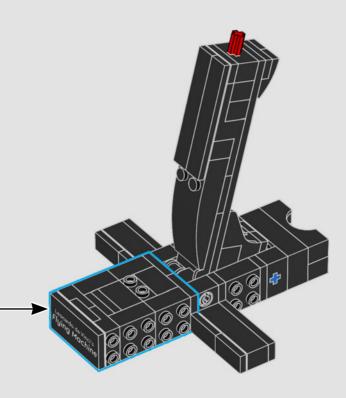






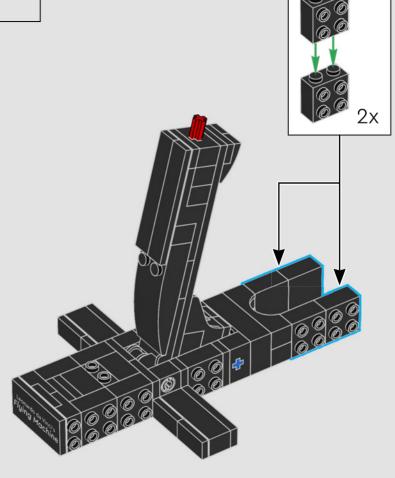


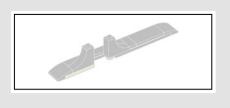
Da Vinci spesso scriveva al contrario nei suoi taccuini. Il testo poteva essere letto correttamente solo se veniva riflesso in uno specchio.





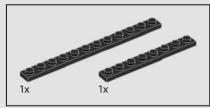


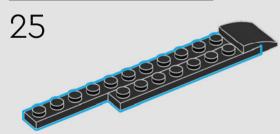




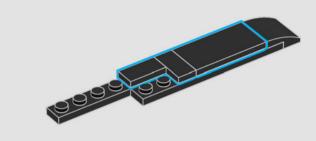








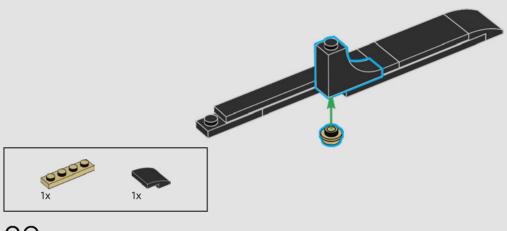


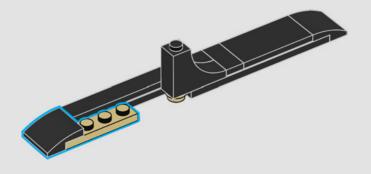




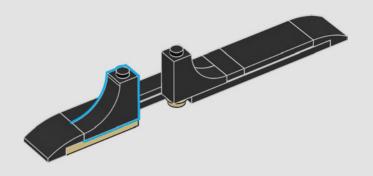


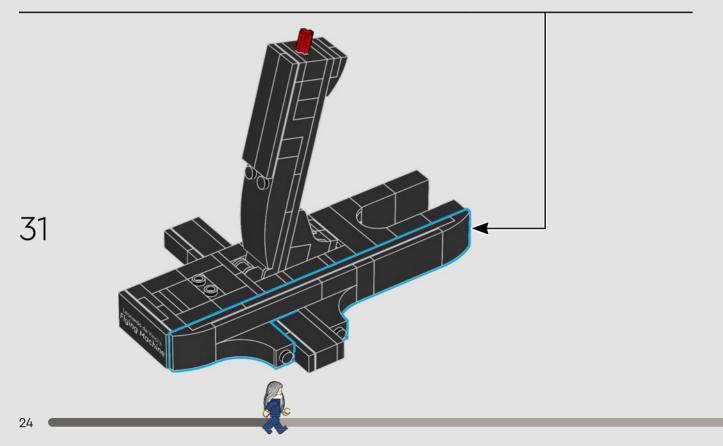






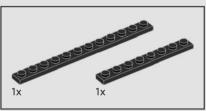


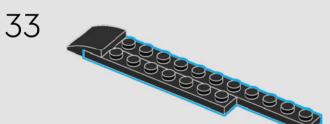




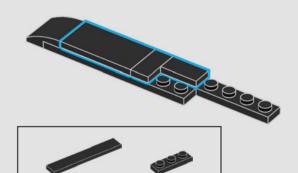




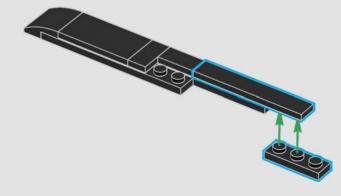




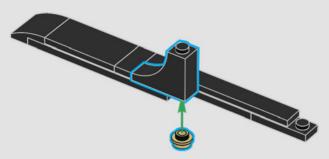




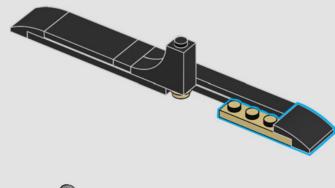






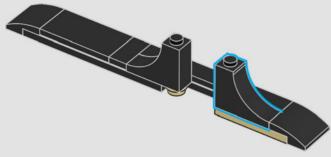


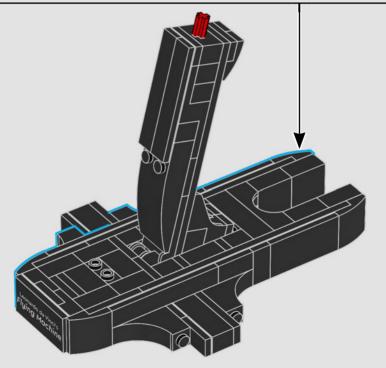




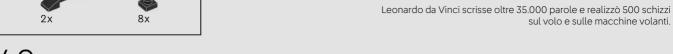


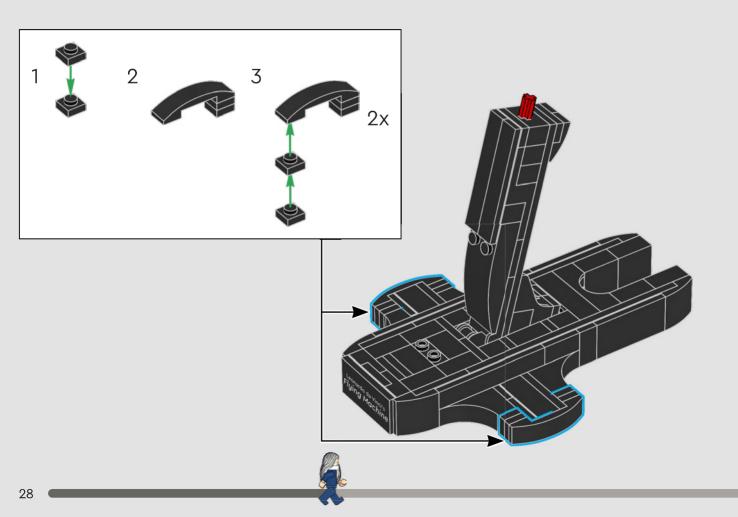








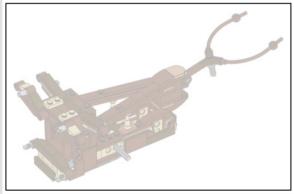




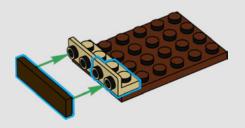








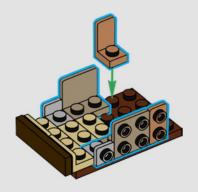




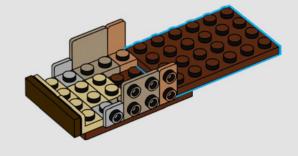


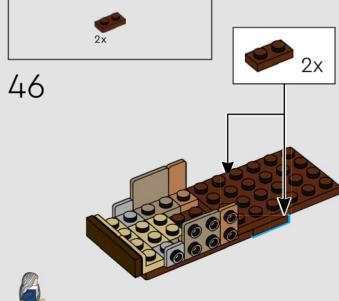




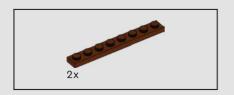


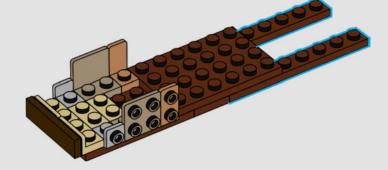


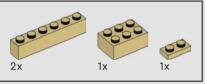


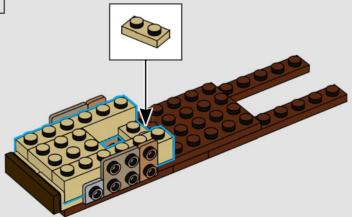


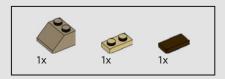


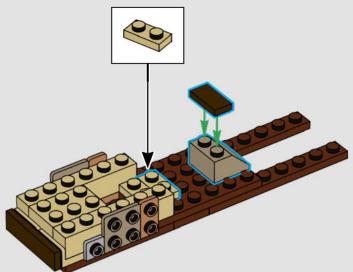




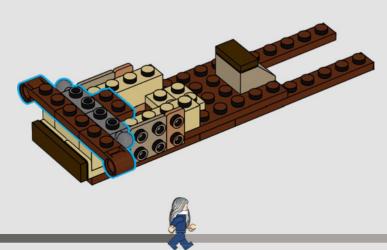






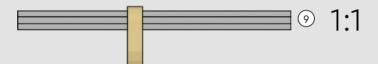




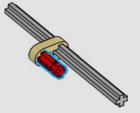


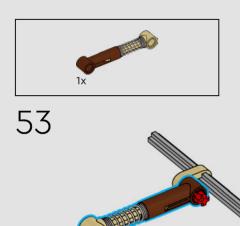




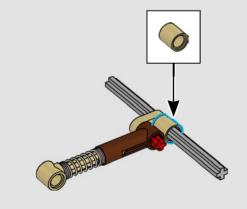




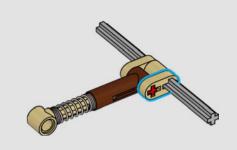




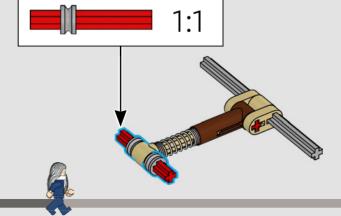




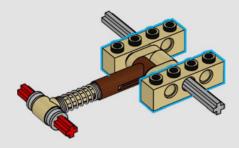


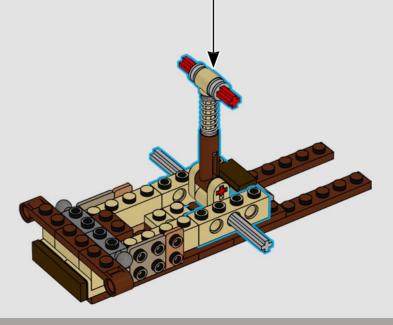




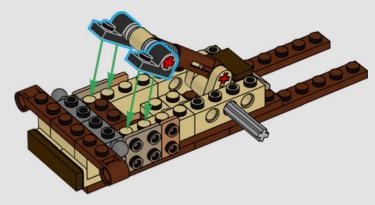




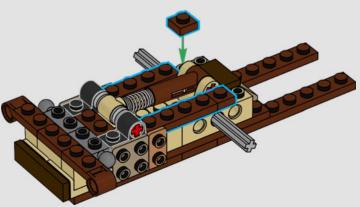






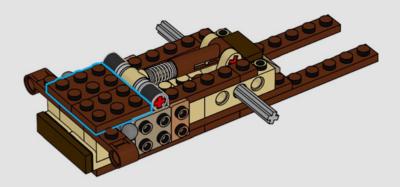




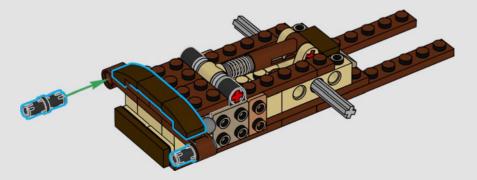




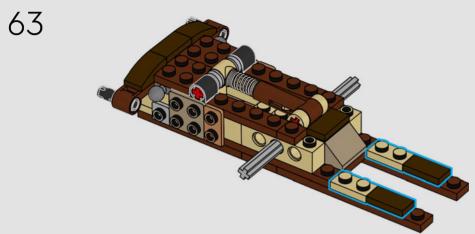


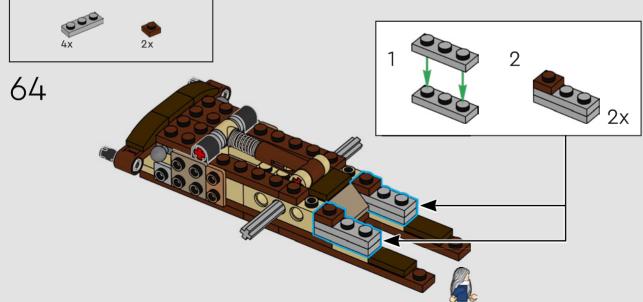














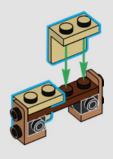






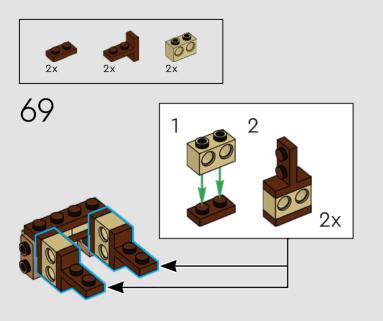


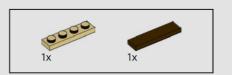


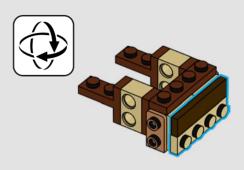


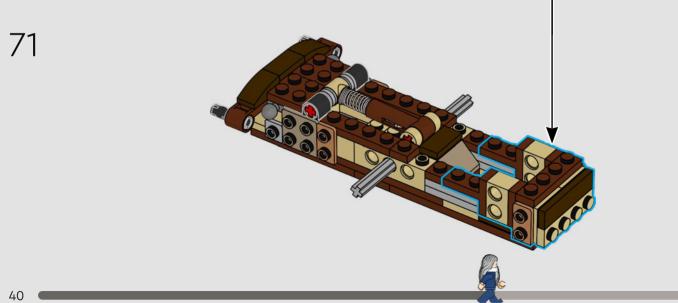




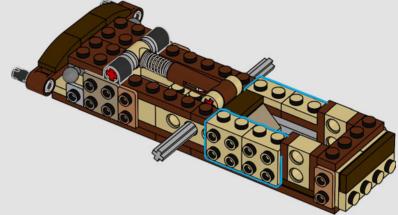




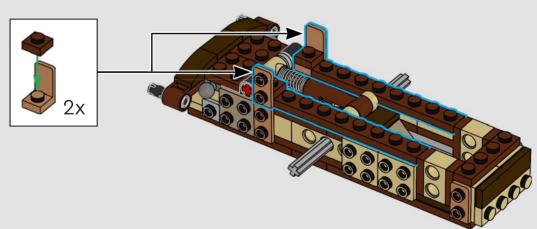




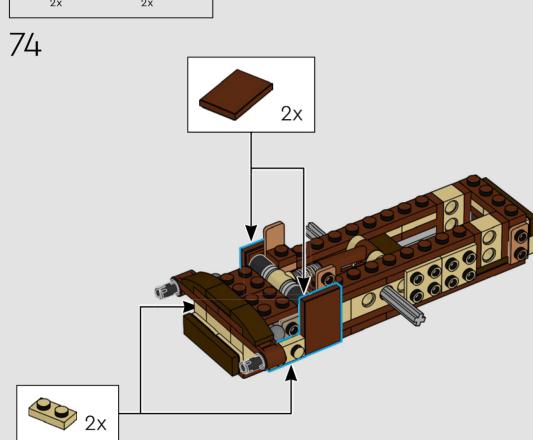




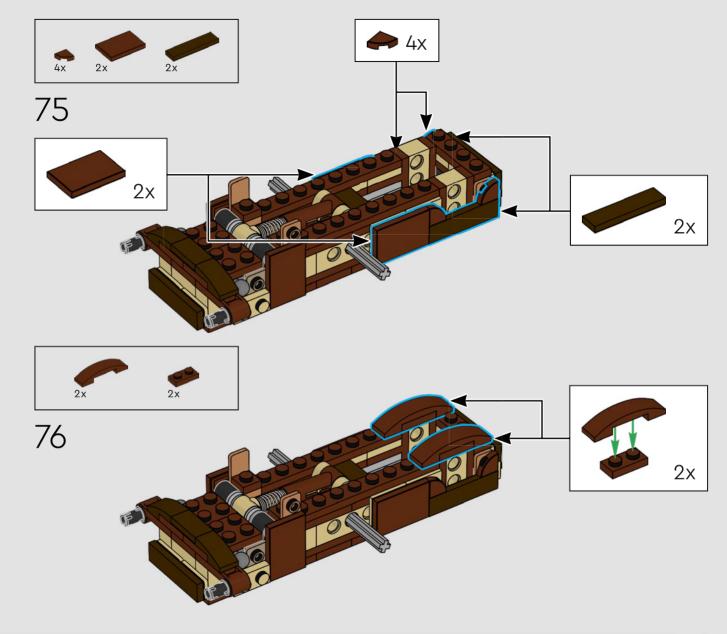




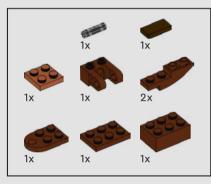


















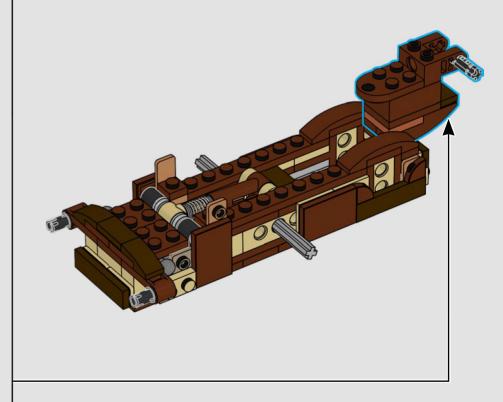


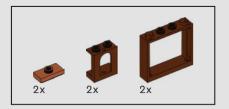


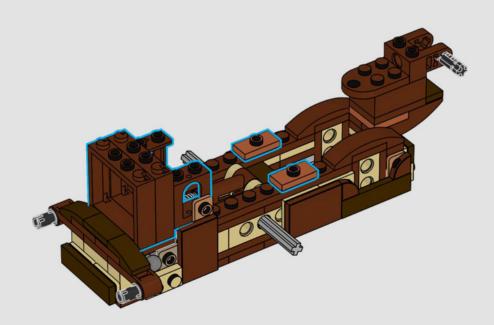
L'ornitottero, costruito e pilotato a bassa quota da un suo amico, fallì miseramente. La macchina infatti si schiantò e l'amico di Leonardo subì una frattura alla gamba.



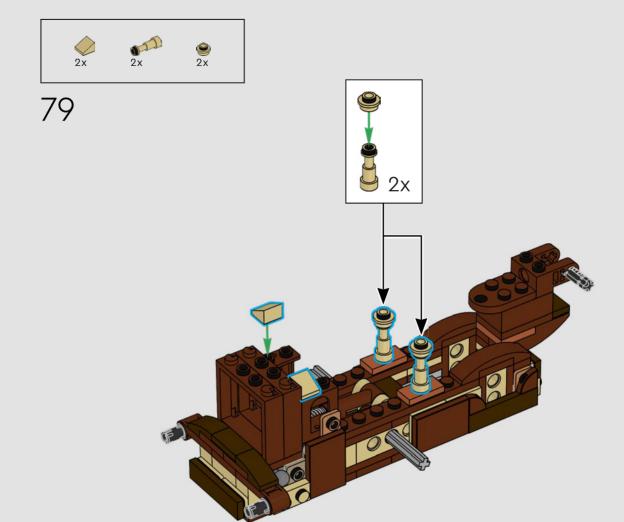














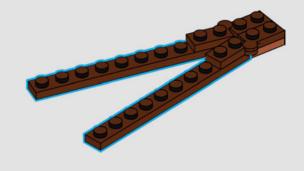






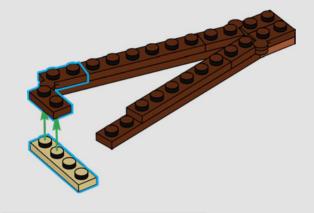




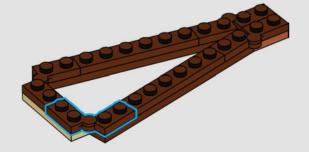


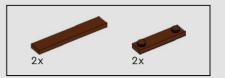


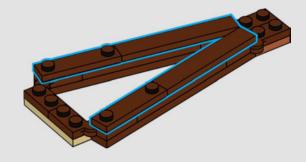


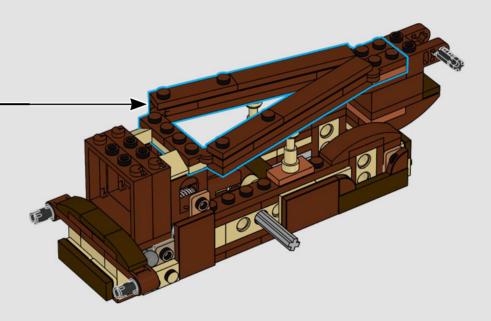




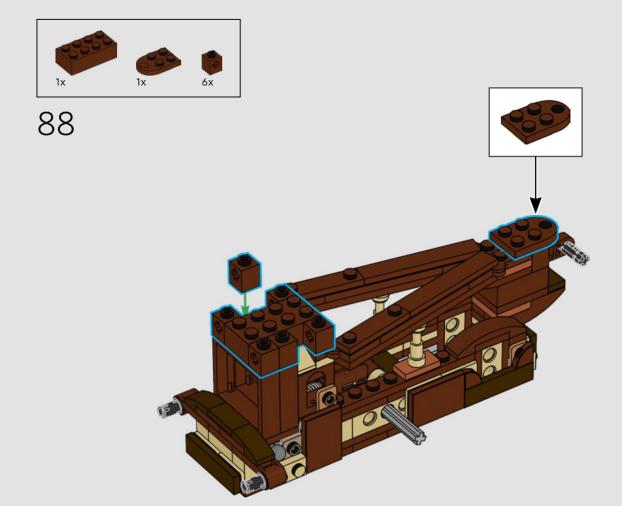




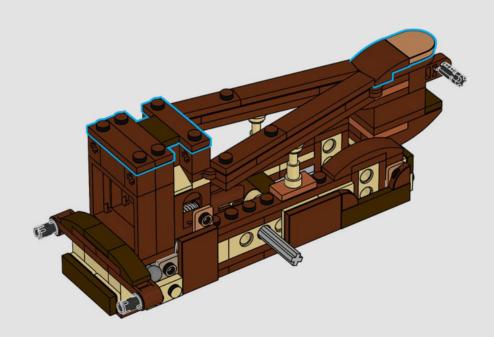










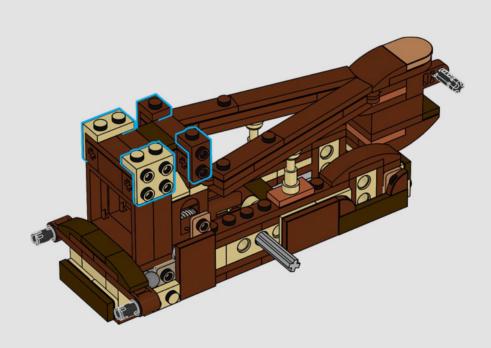




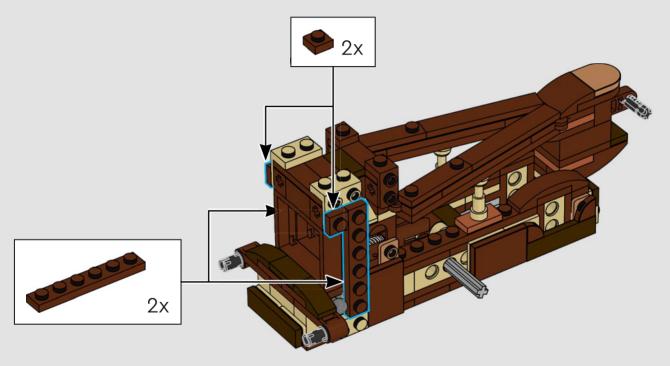




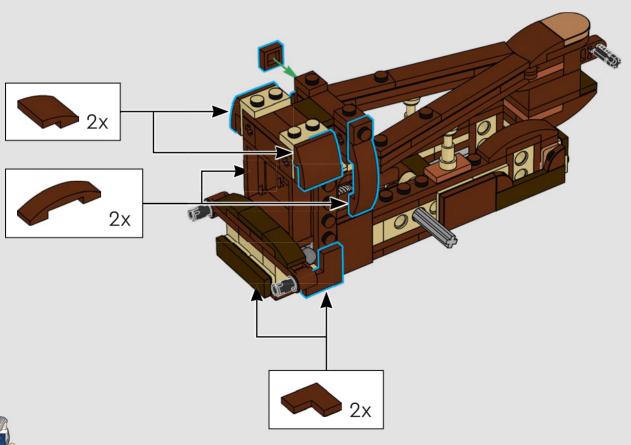
Leonardo da Vinci era sicuro che il corpo umano potesse produrre abbastanza energia per far decollare e tenere in quota una macchina volante.



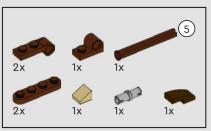




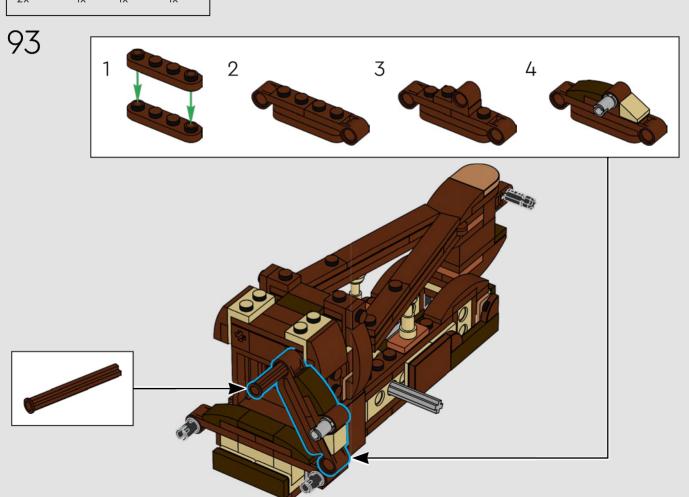


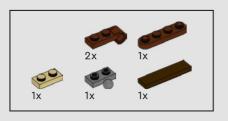


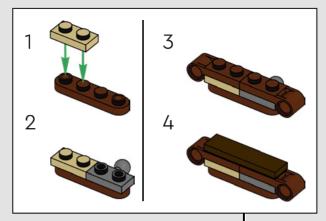


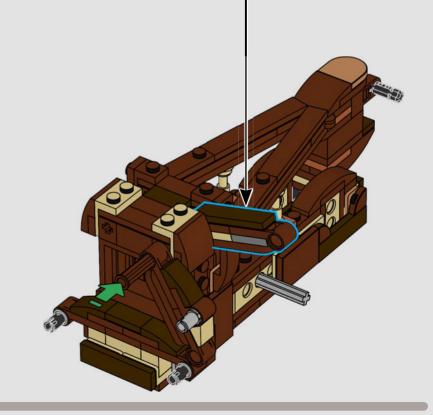




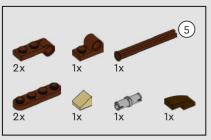


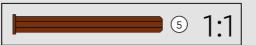


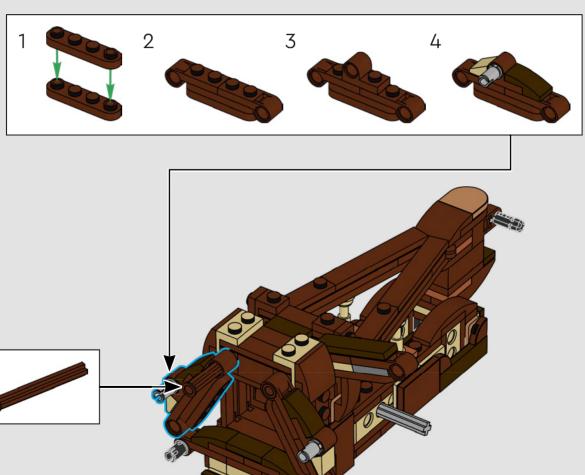


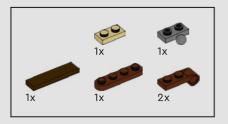


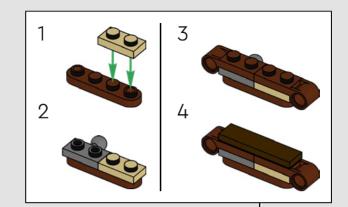


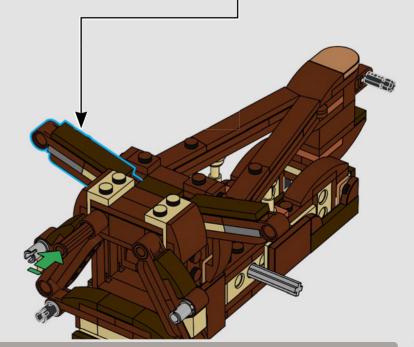






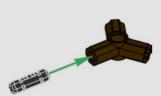














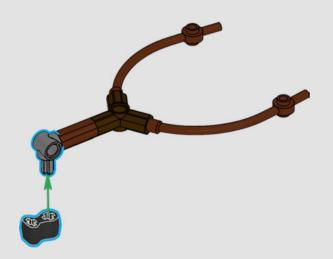
Gli schizzi di Leonardo da Vinci mostrano diverse macchine volanti azionate da un pilota tramite vari meccanismi di potenza: alcuni alimentati dalle gambe, altri dalle gambe e dalle braccia, e altri ancora con timoni collegati al capo del pilota.

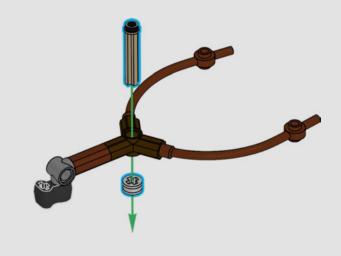






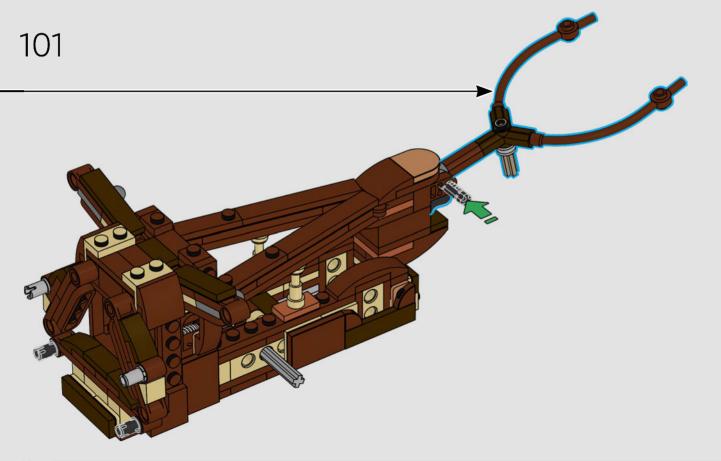






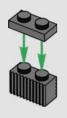


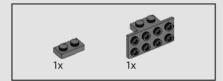


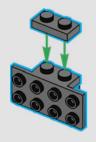




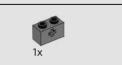


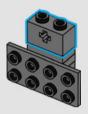








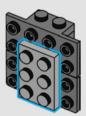






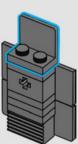




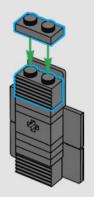




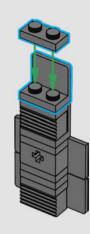




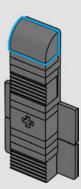




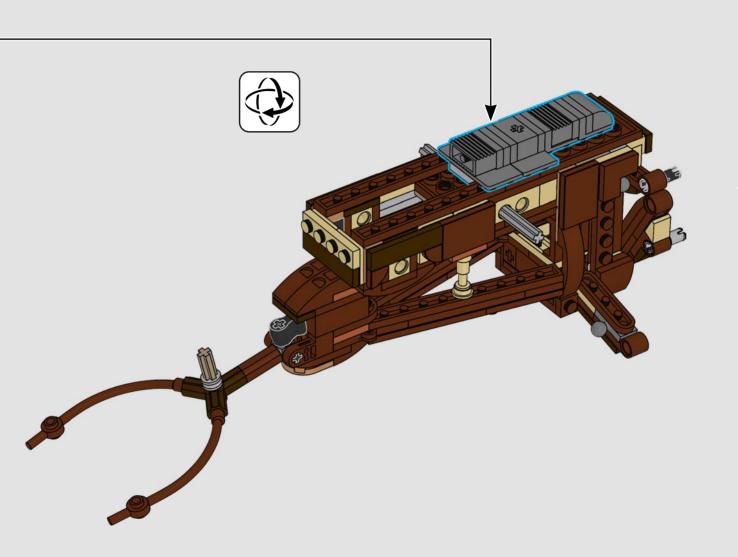


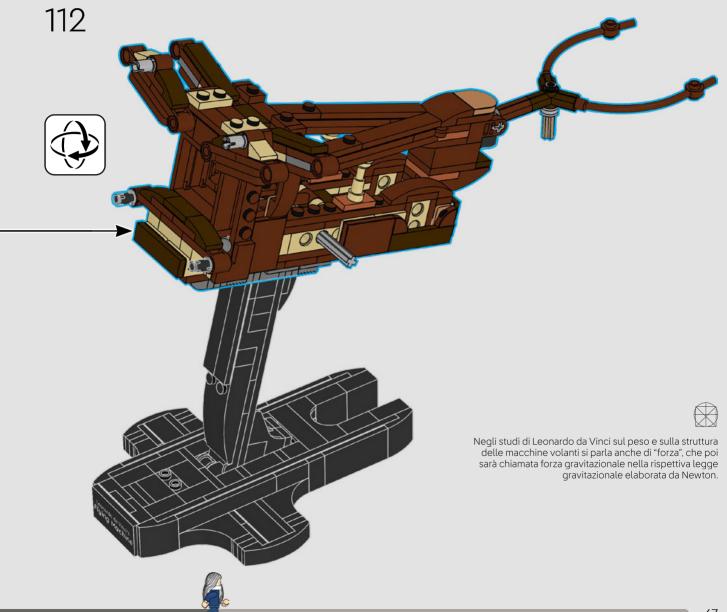














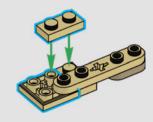




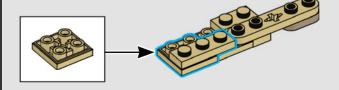




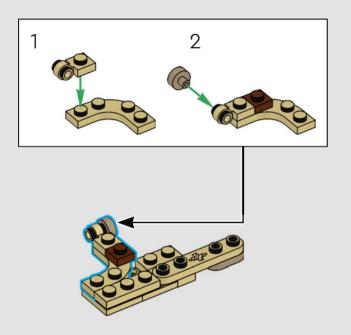




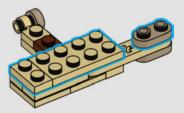




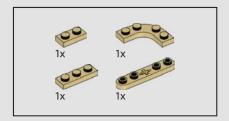


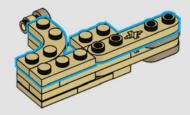


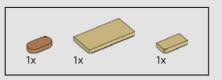


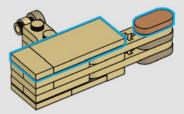


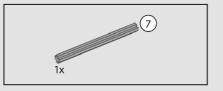


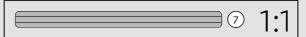


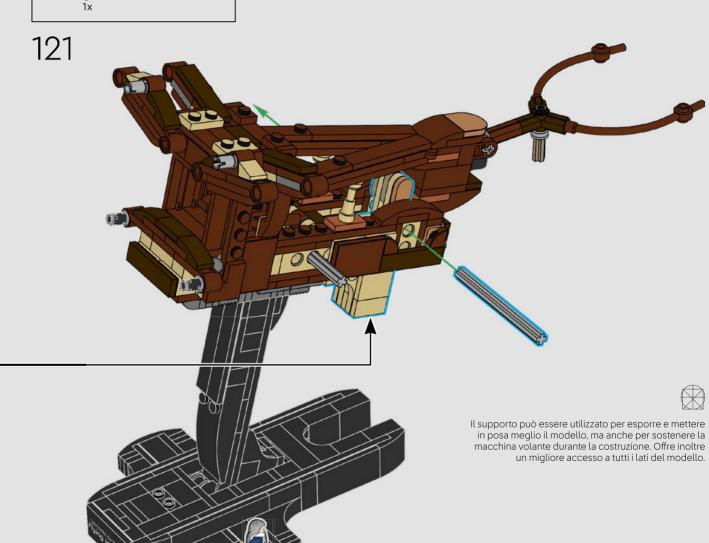


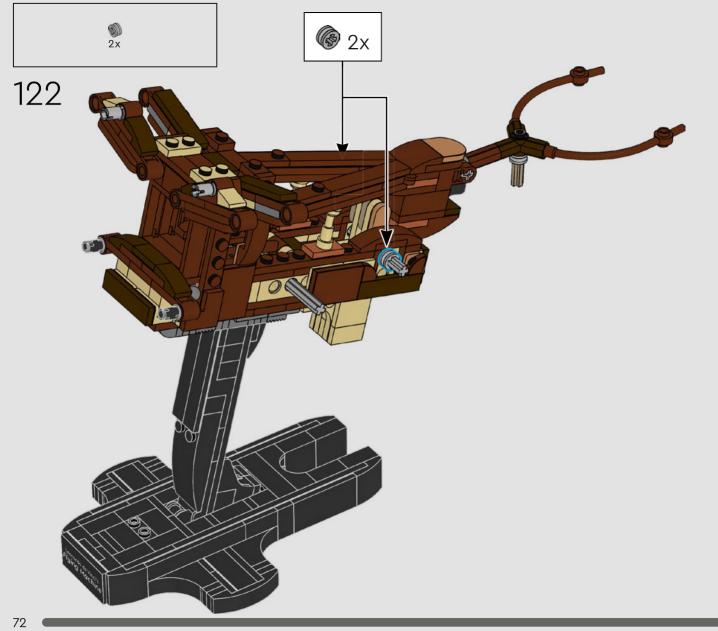


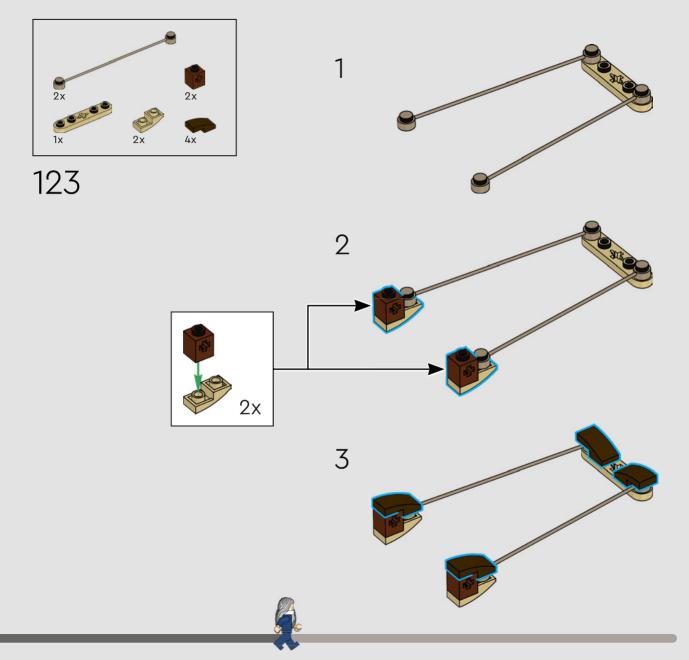


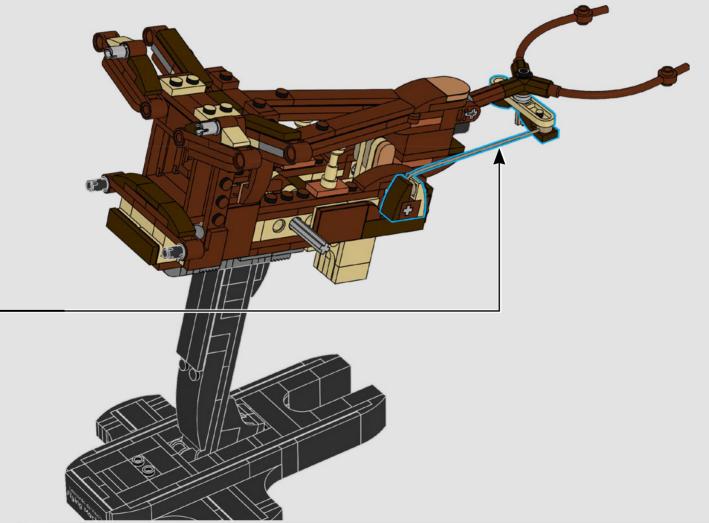




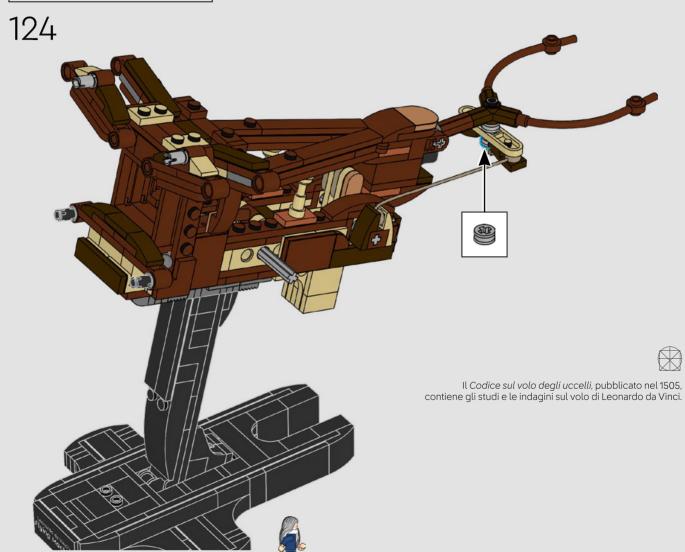


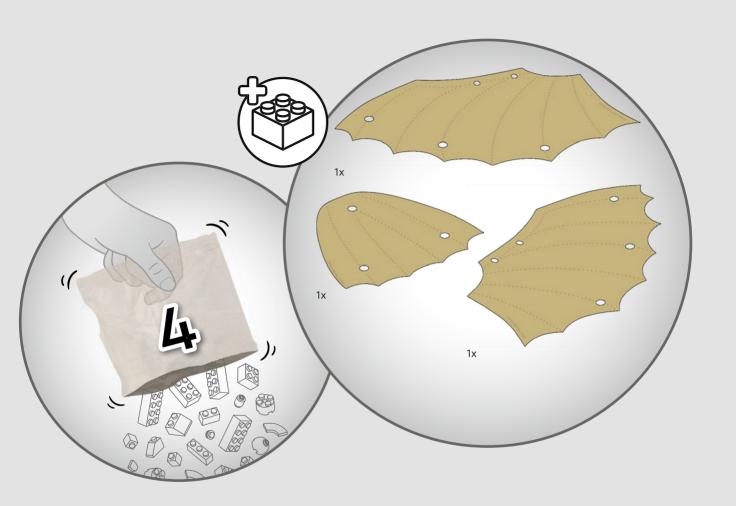




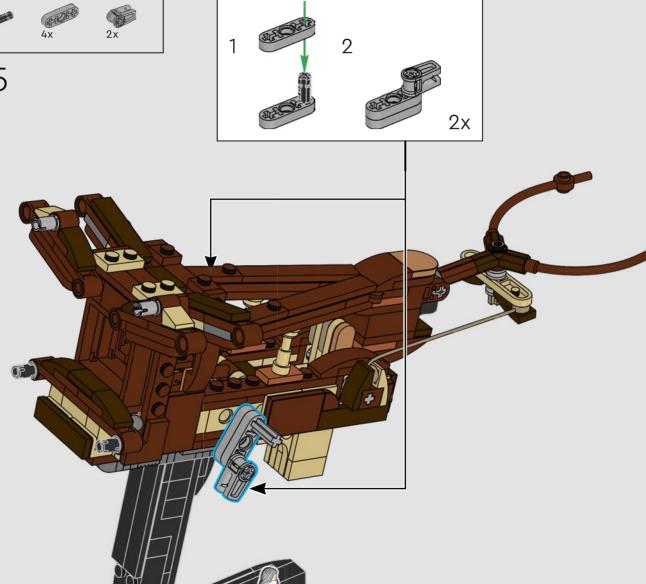






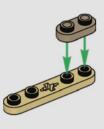




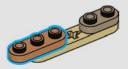




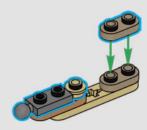








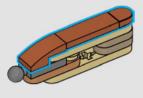




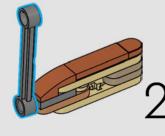


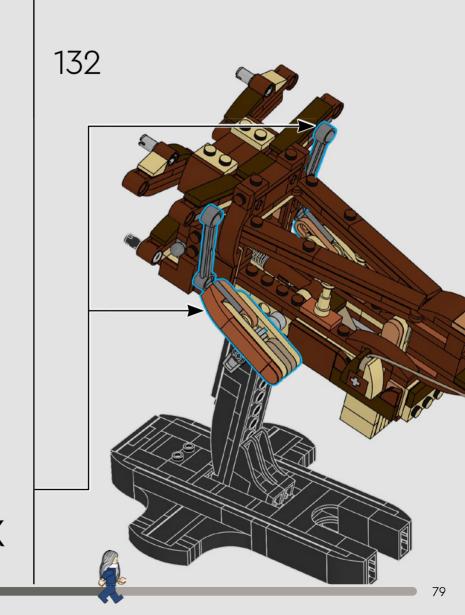






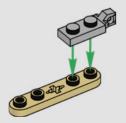




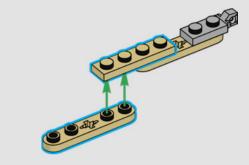




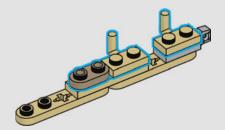


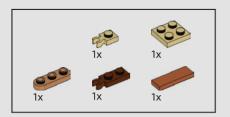


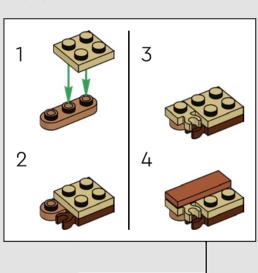


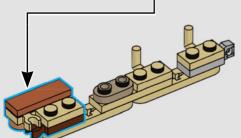




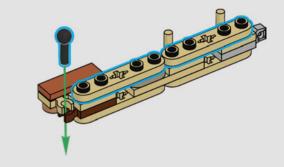


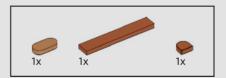


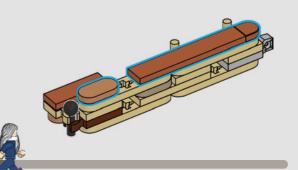




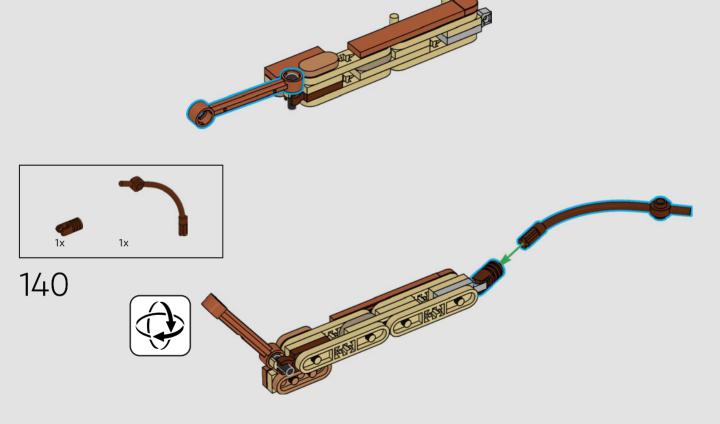


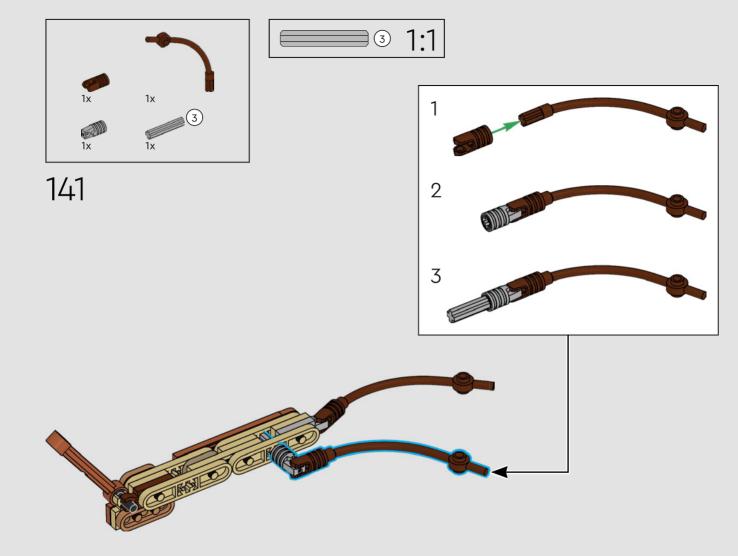




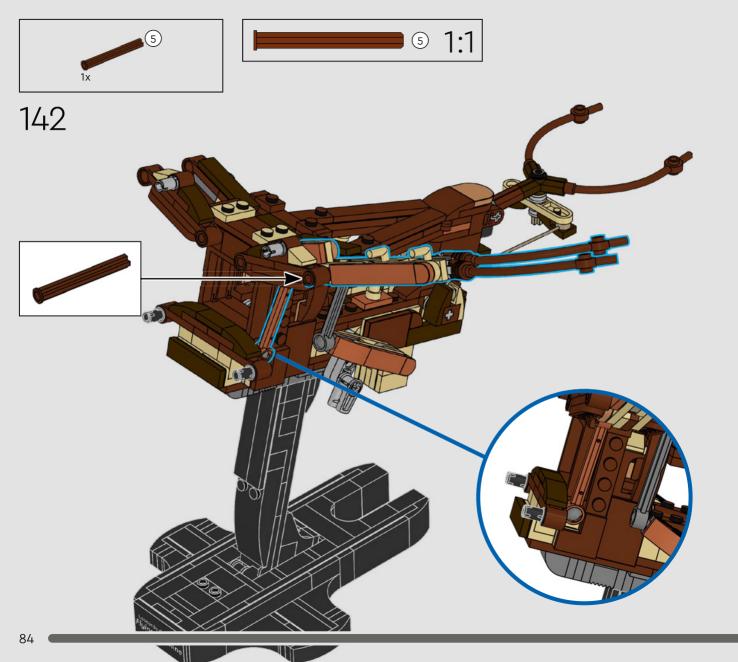






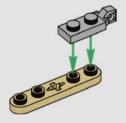


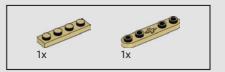


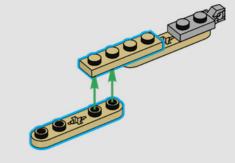




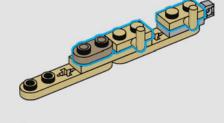




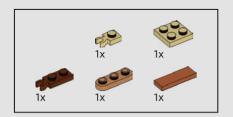


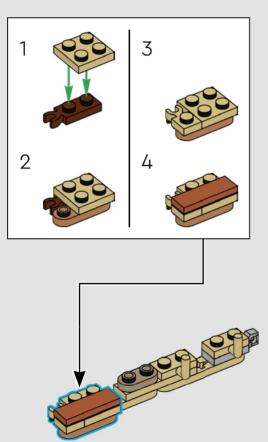




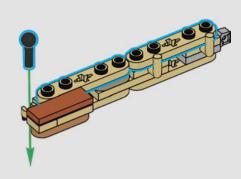


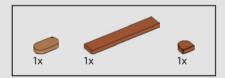


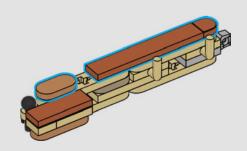




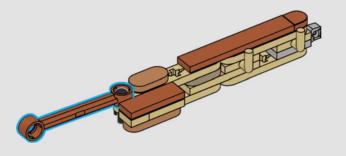


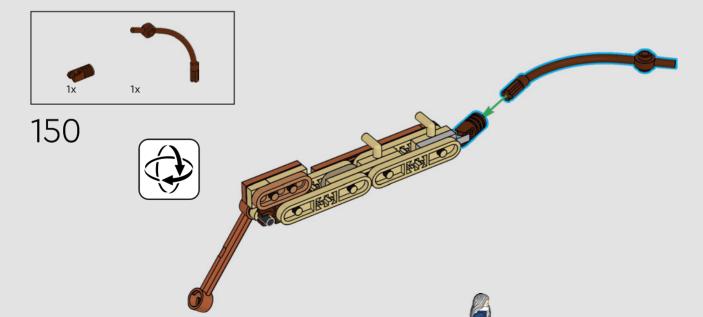


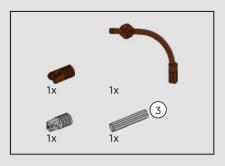


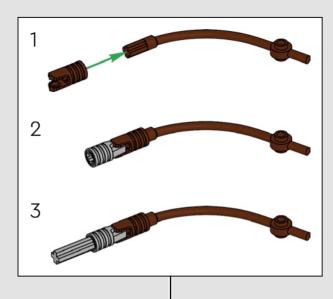


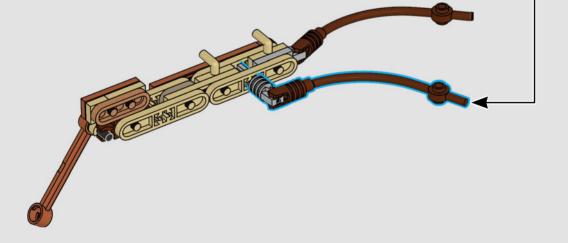




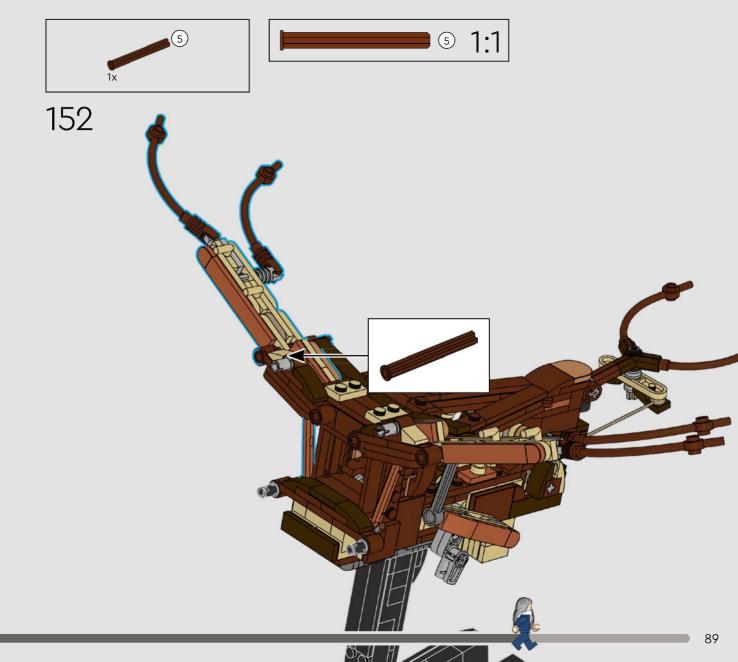


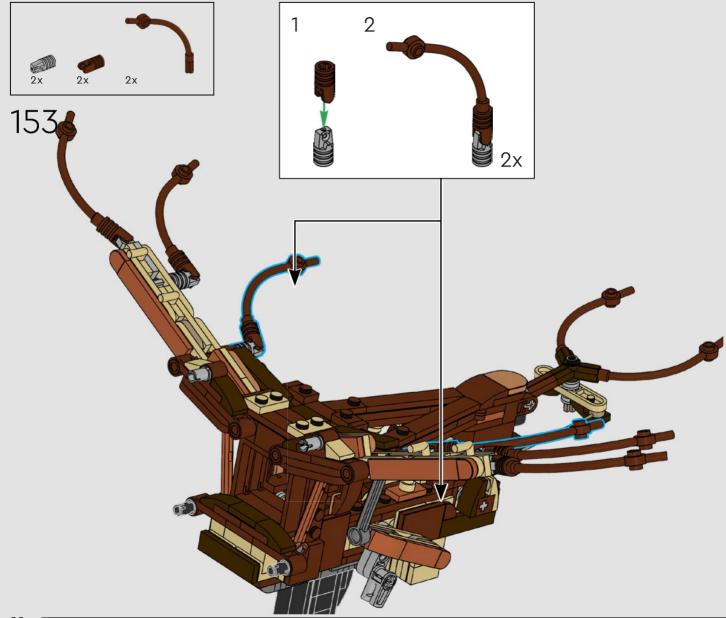


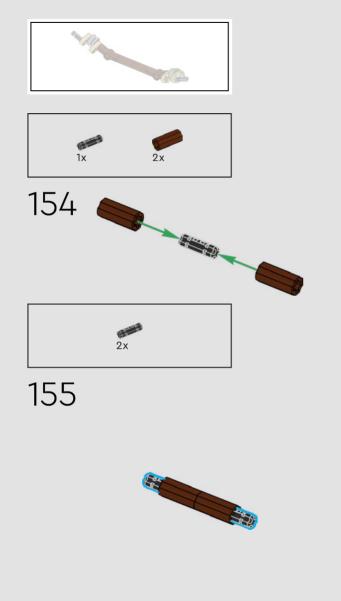








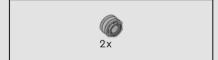




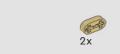






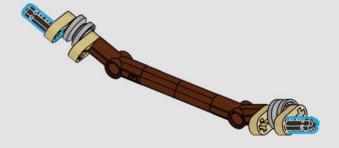






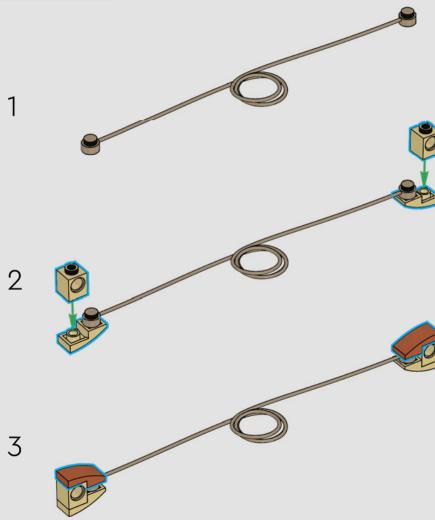


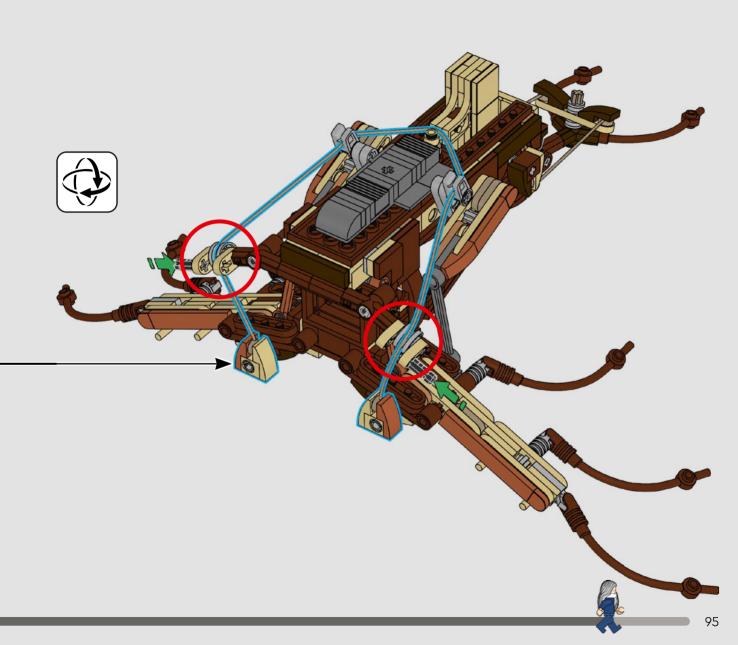




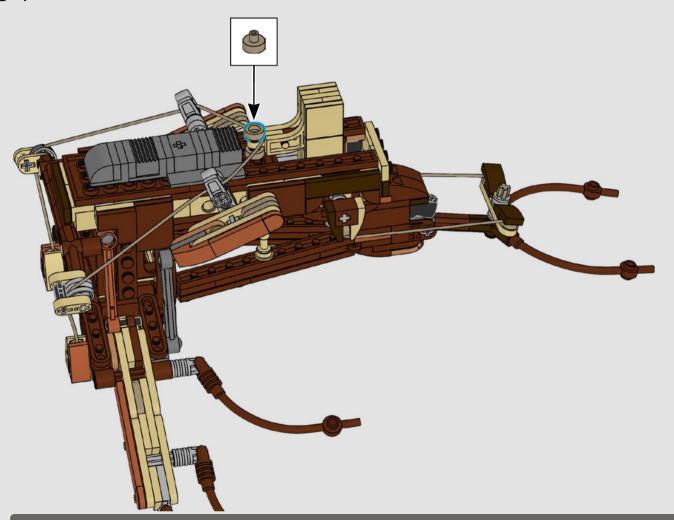


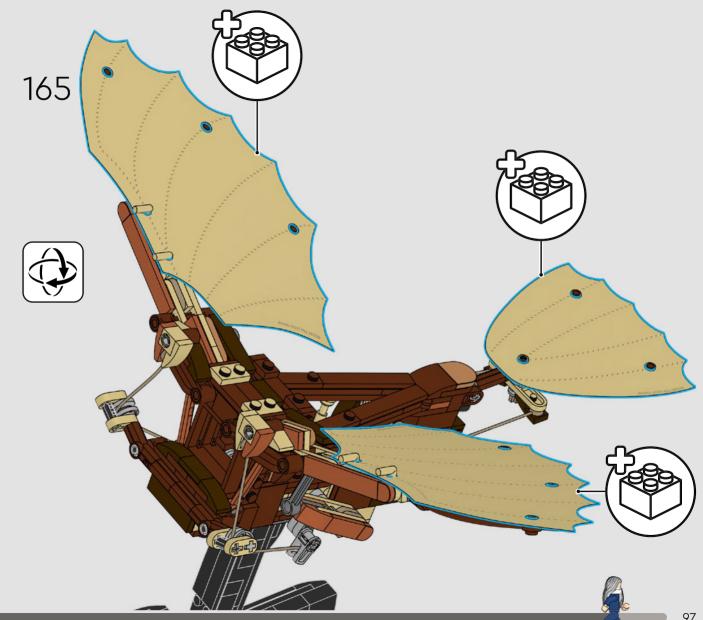


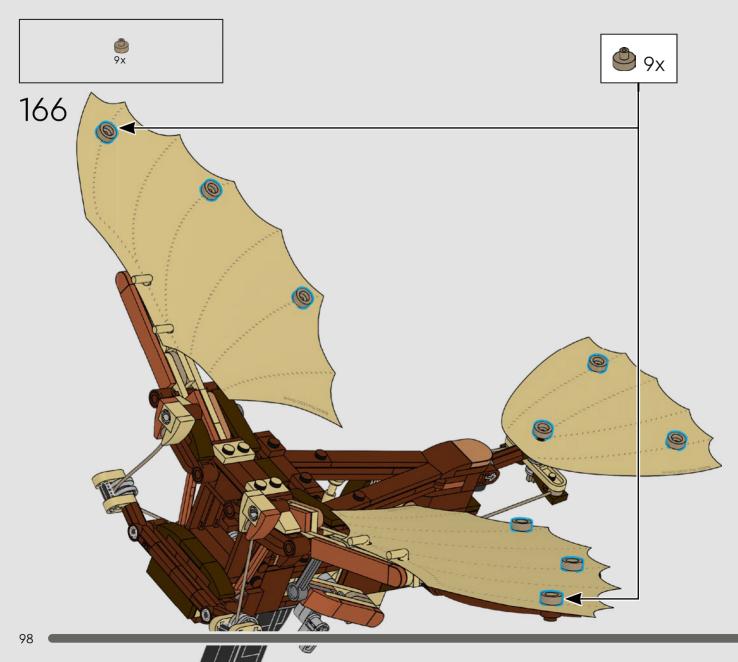






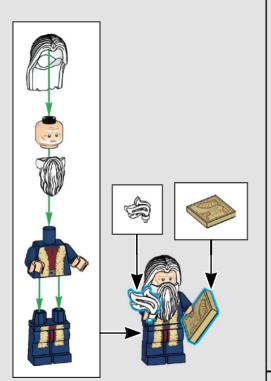






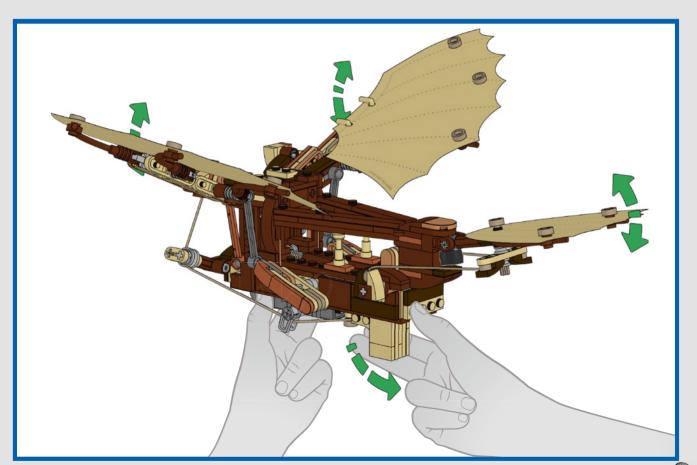


Abbiamo progettato il modello in modo che il grilletto possa essere attivato in almeno tre modi diversi; sul supporto, quando viene tenuto in una mano e quando viene tenuto in entrambe le mani (una sul grilletto, l'altra che supporta il modello).





Una delle sfide progettuali è stata quella di capire dove posizionare il grilletto per la funzione di azionamento delle ali, in modo che le mani dei costruttori non interferissero con nessuna parte del meccanismo o delle corde.















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