



Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967

Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters



Mașini simple și propulsate

Vreau să construiesc ceva
care să se miște în sus și
în jos, folosind motorul,
dar încă nu am reușit...
Construcția se mișcă doar
în linie dreaptă...

Nu cred că este
posibil ce spui...

Sunt sigur că se poate,
dar nu știu cum... Să
întrebăm!





Într-adevăr, este posibil.
Și nu este dificil, trebuie
doar să conectăm o osie
la un punct diferit față
de centrul unui disc sau
al unui angrenaj.



Acest mecanism se
numește „camă” și
există în setul nostru.
Vom vorbi despre
aceasta într-o altă lecție.



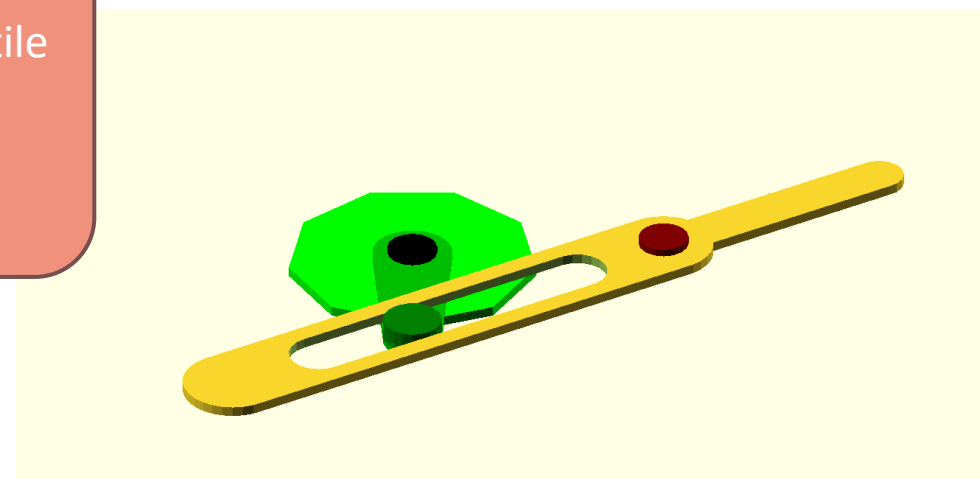
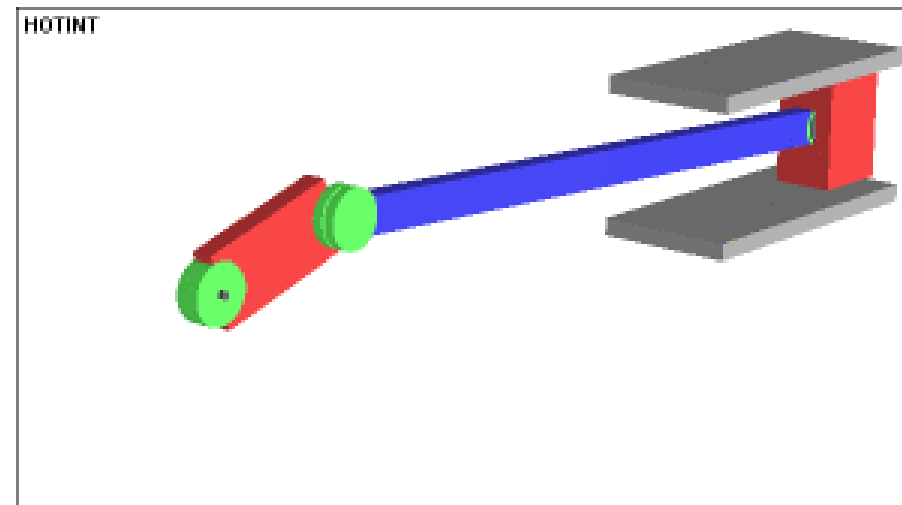
Discutați cu elevii dacă au văzut din nou o camă.



Cama este un mecanism care transformă mișcarea de rotație în retrogresivă (în sus și în jos, înainte și înapoi).

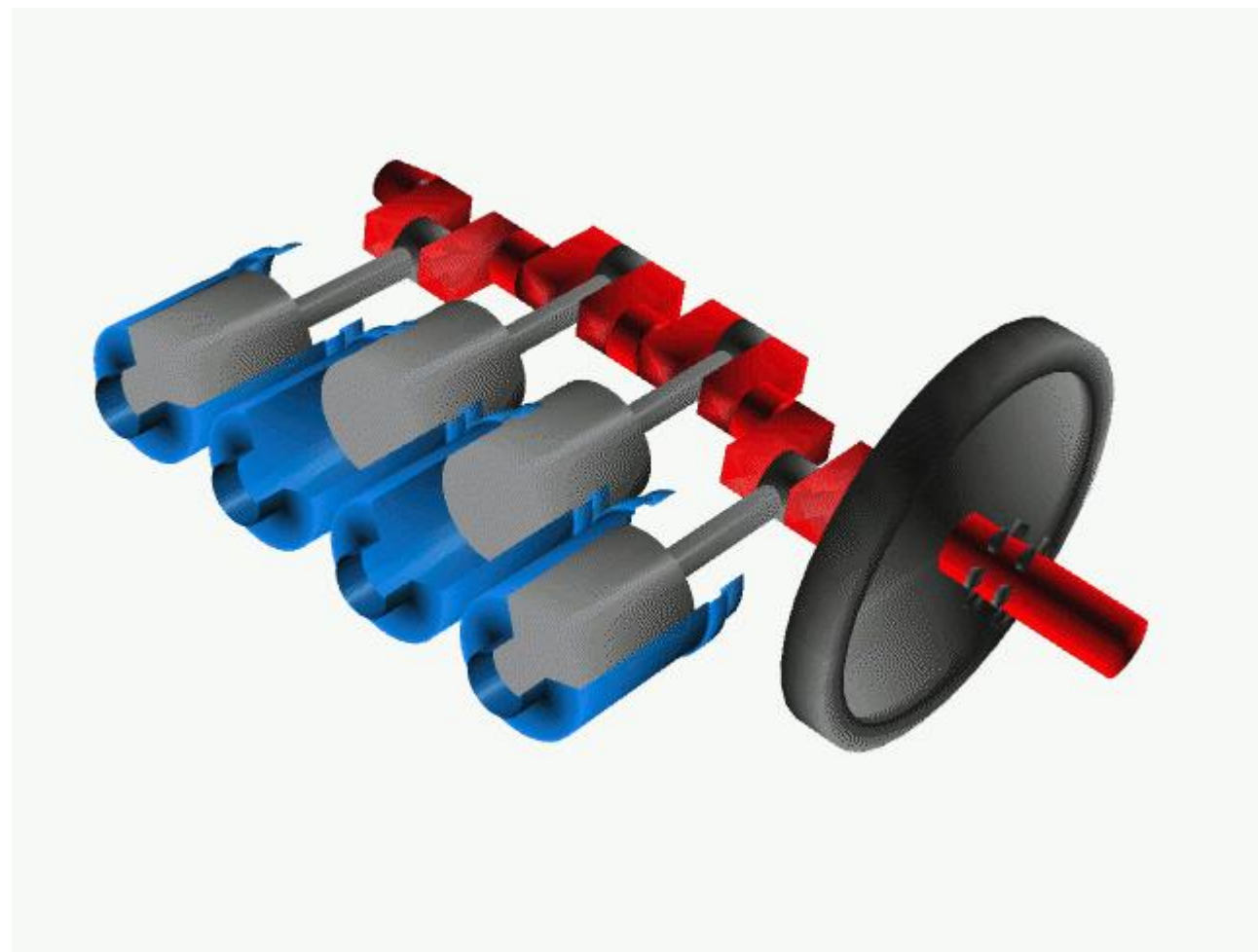


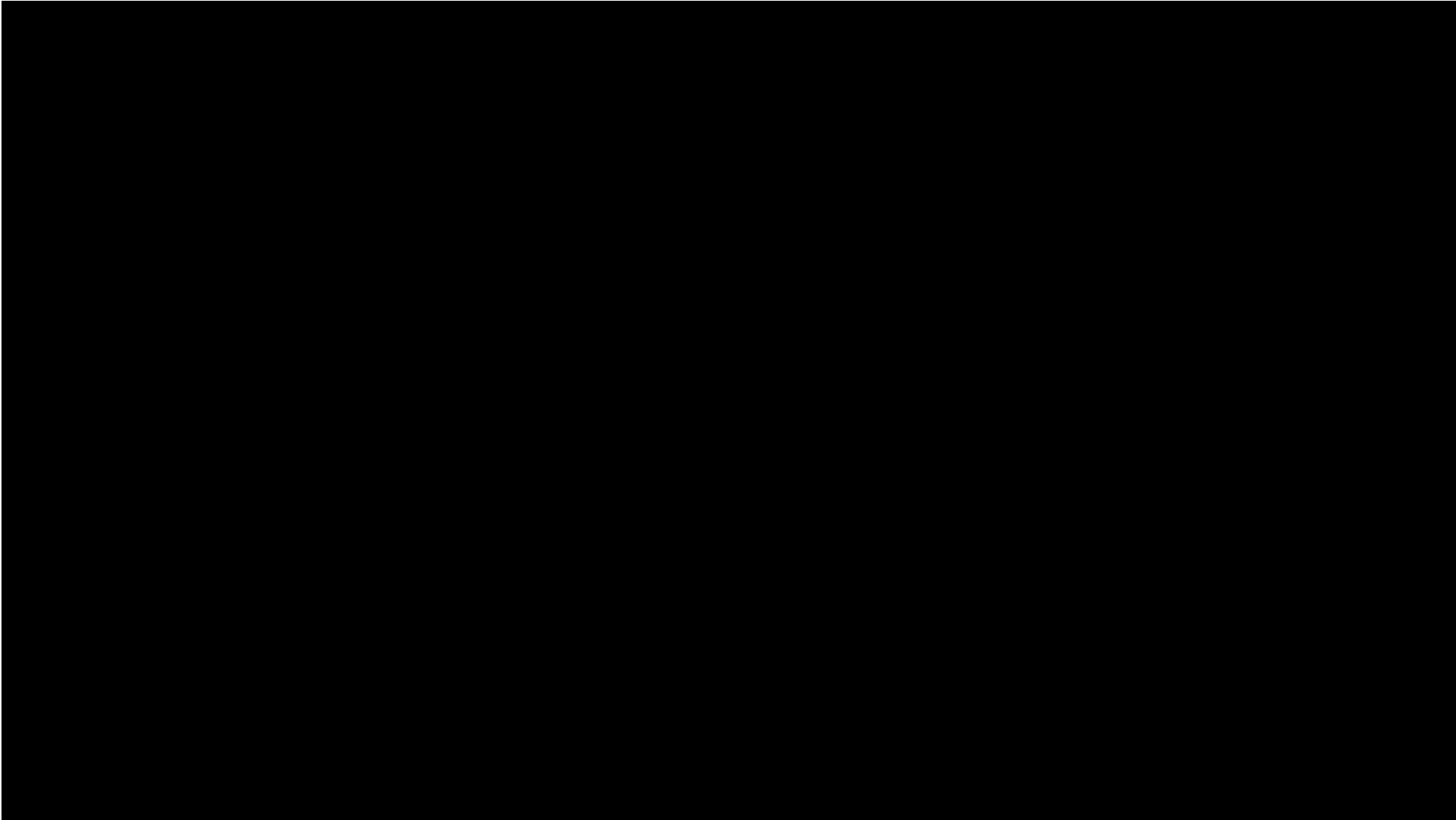
Se folosește la pistoane, la roțile unui tren și, bineînțeles, la jucării!



Discutați cu elevii dacă au mai văzut mecanisme cu camă.

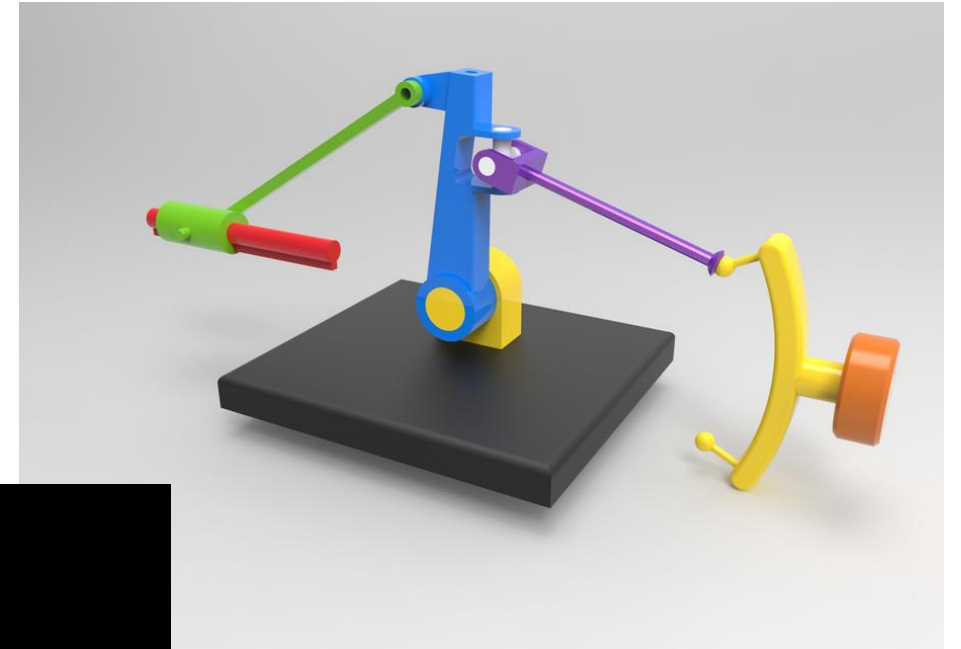
Vezi cum mișcarea de rotație
se transformă în cea liniară!

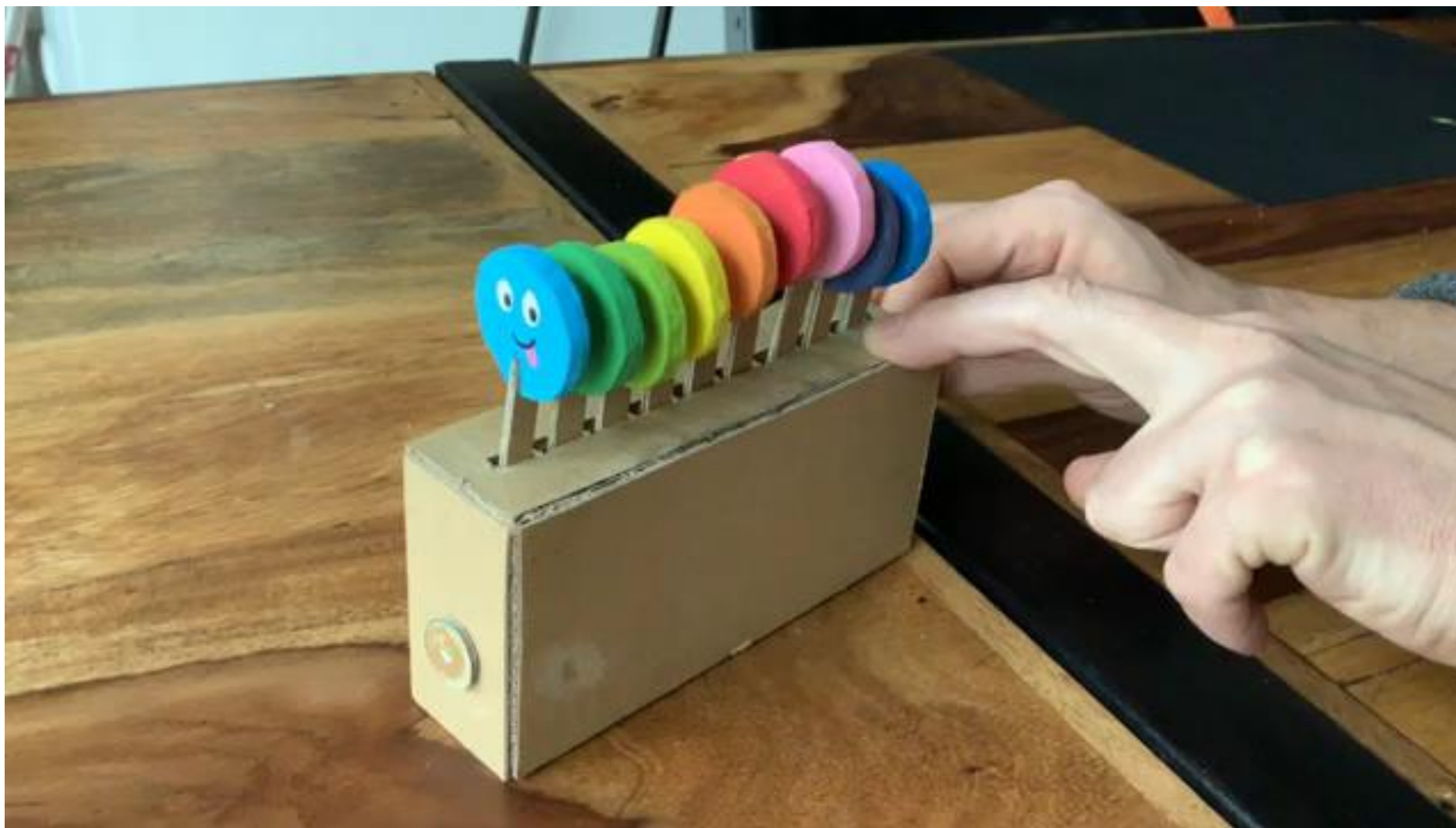




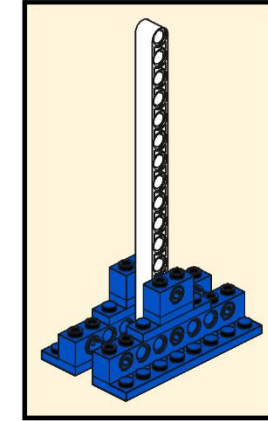
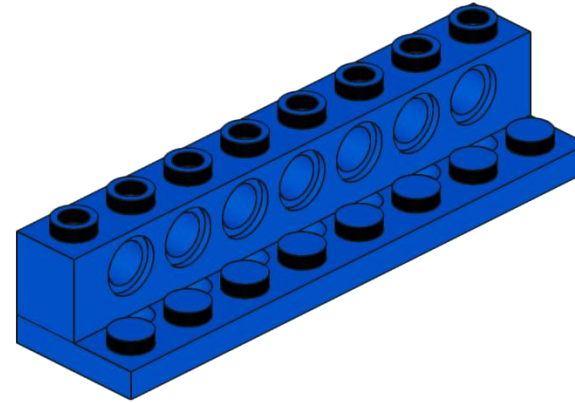
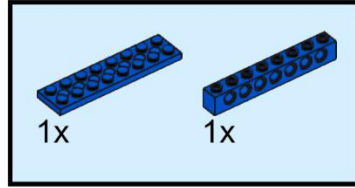


Jucării cu
mișcare
decentrată

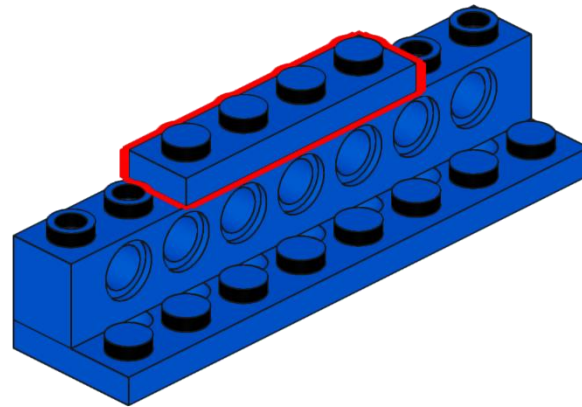
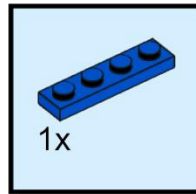




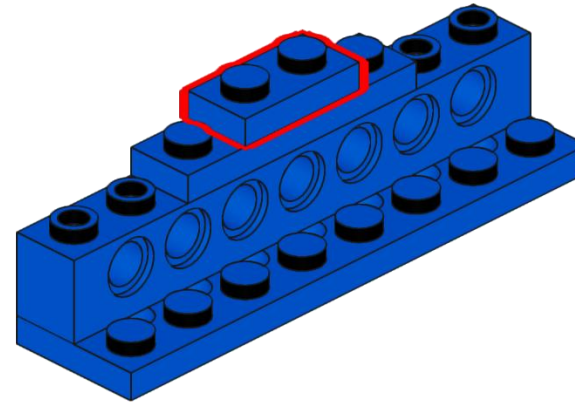
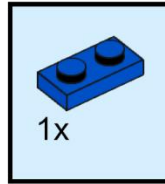
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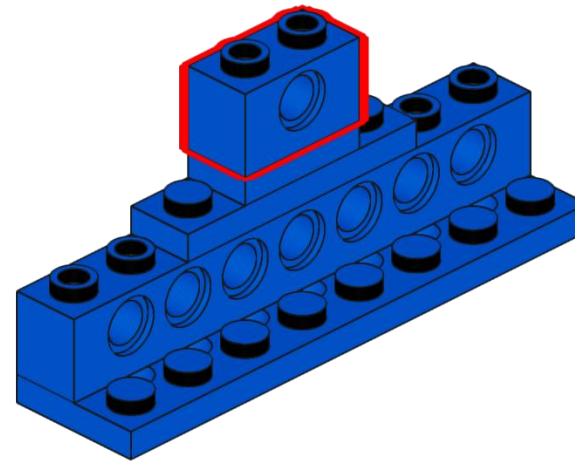
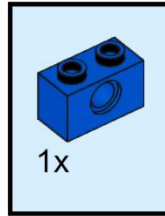
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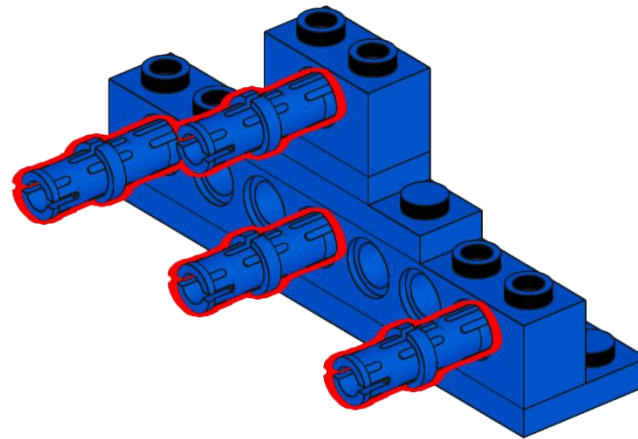
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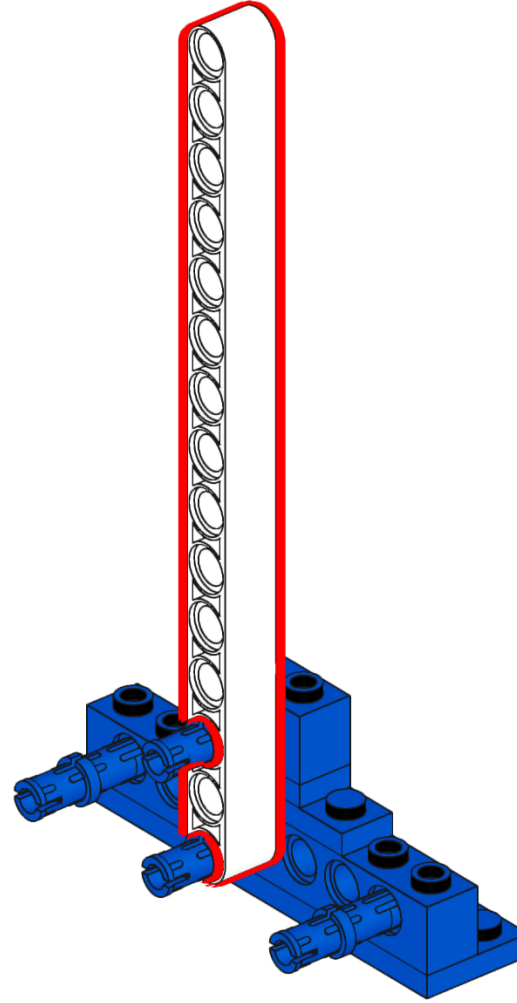
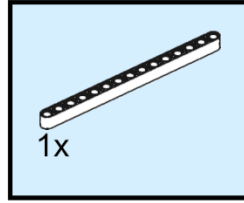
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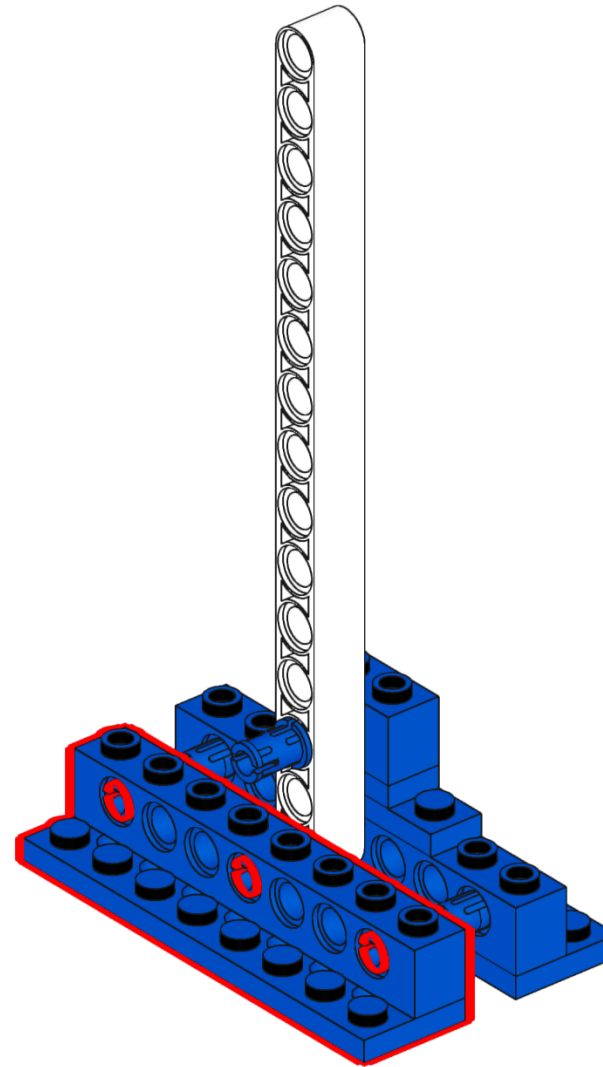
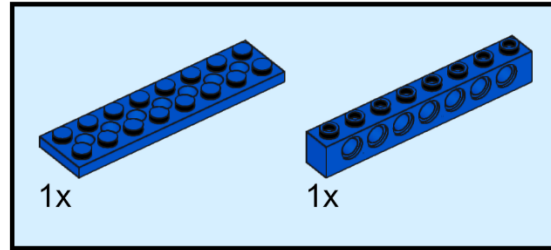
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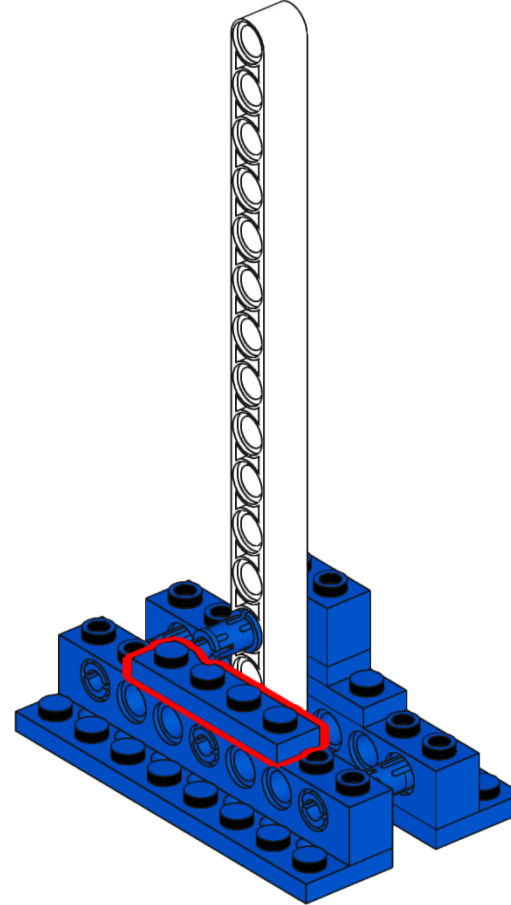
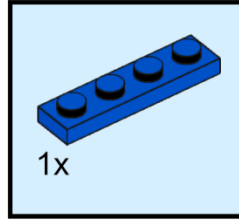
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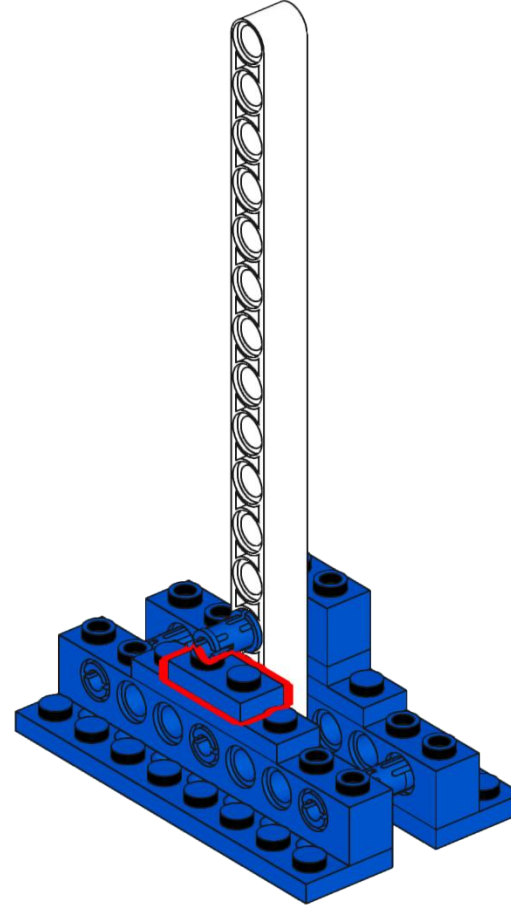
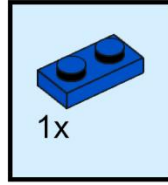
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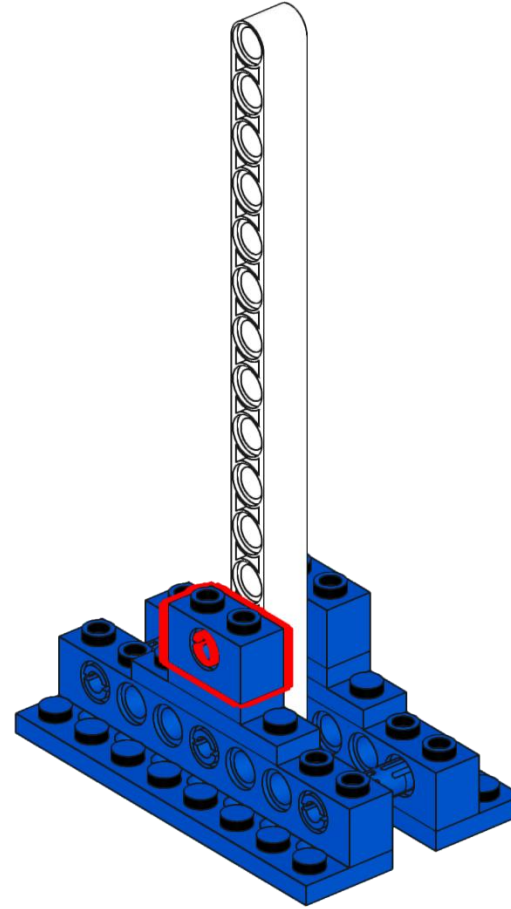
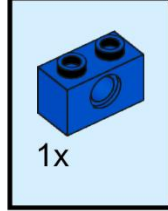
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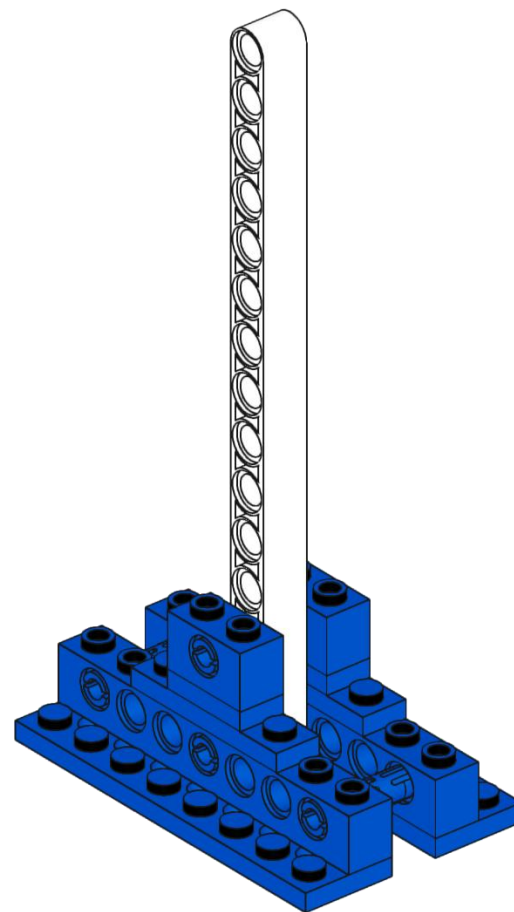
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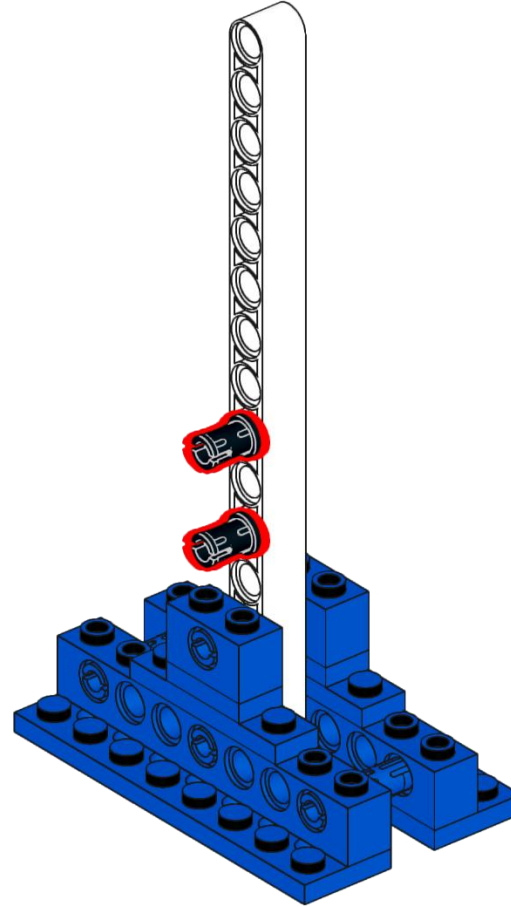
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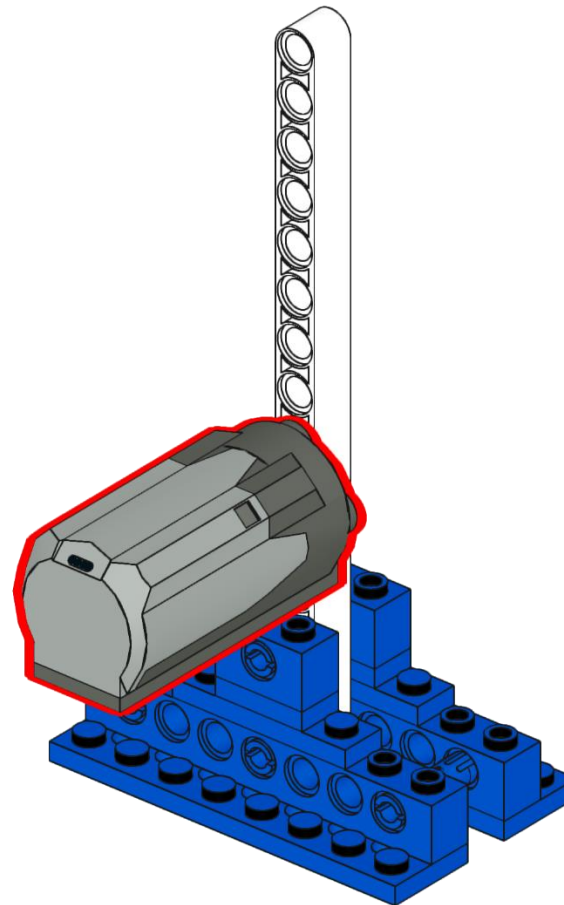
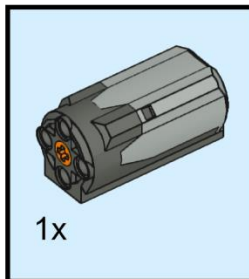
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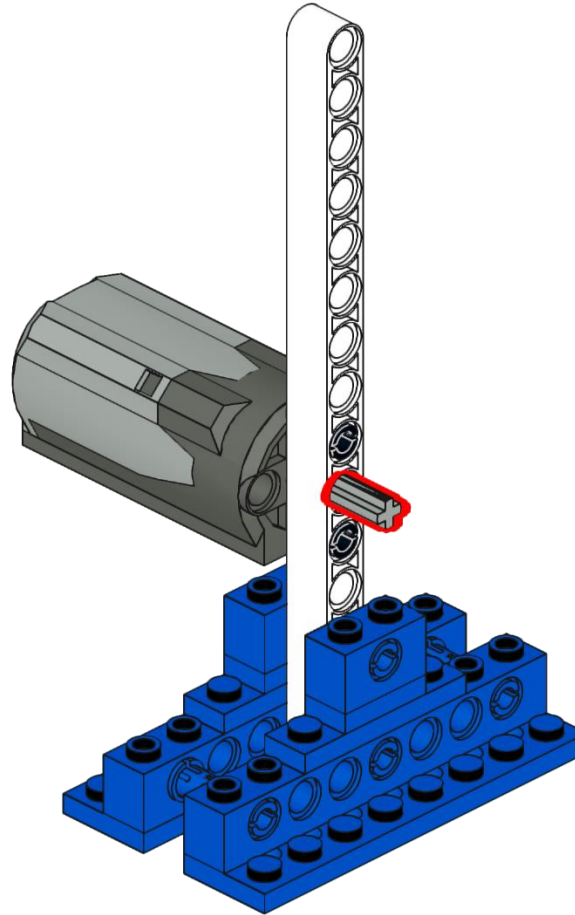
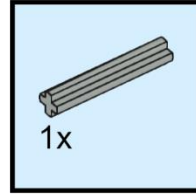
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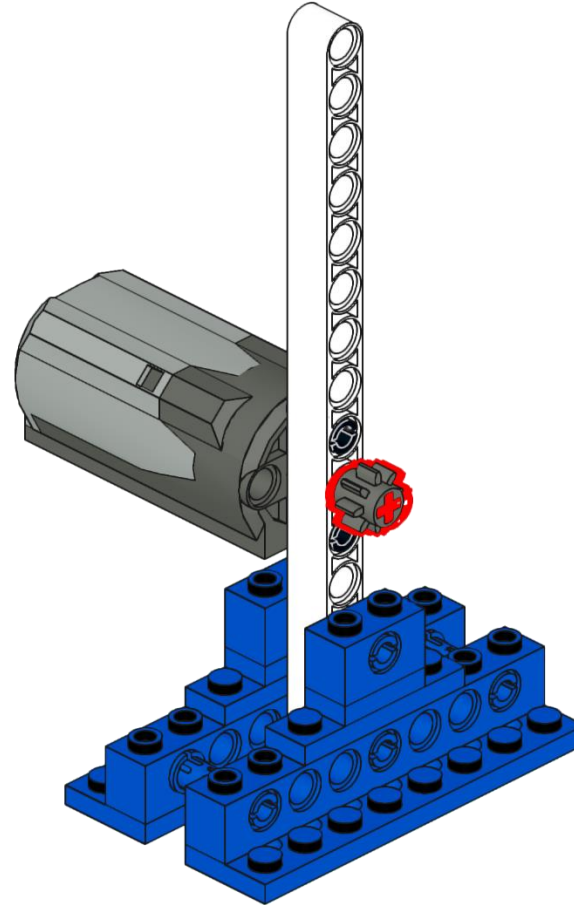
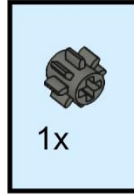
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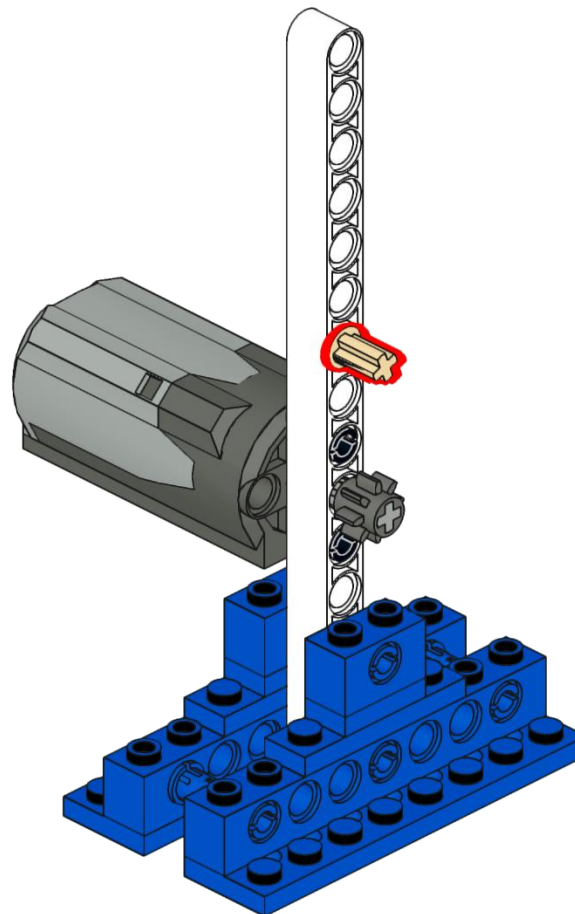
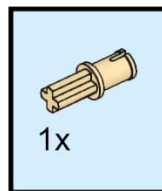
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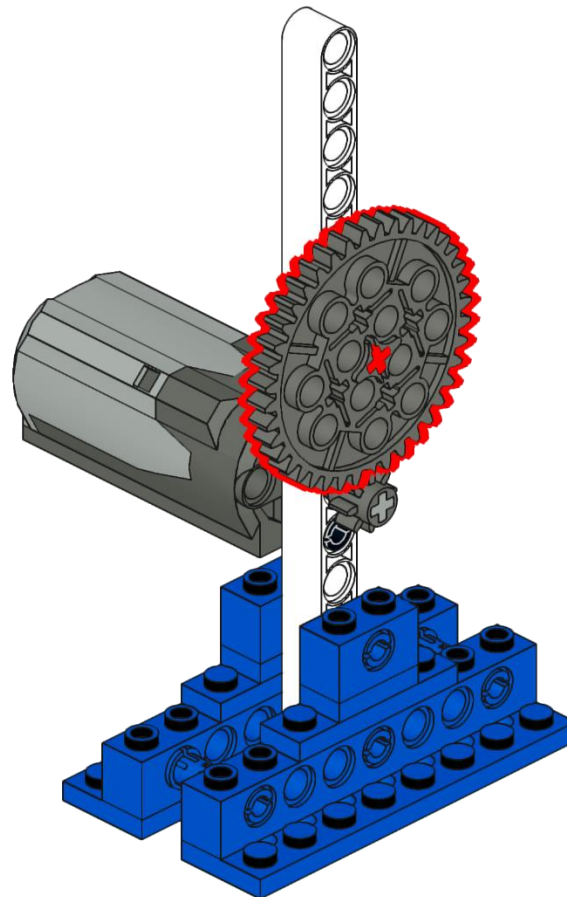
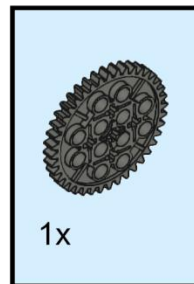
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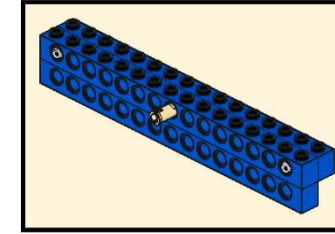
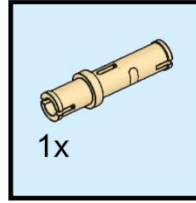
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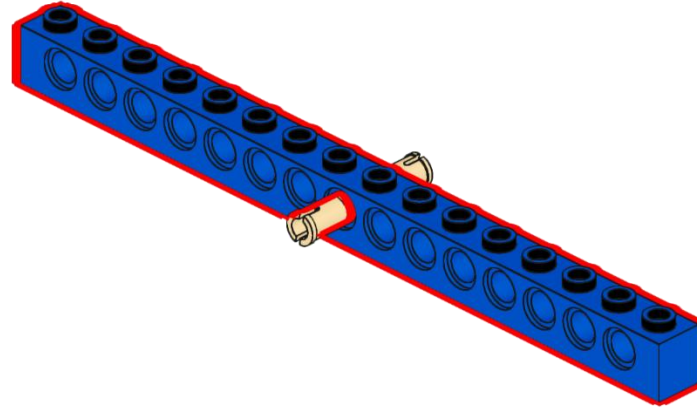
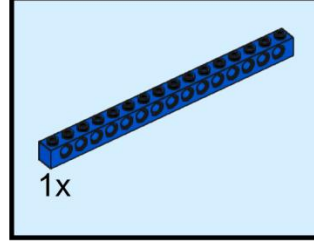
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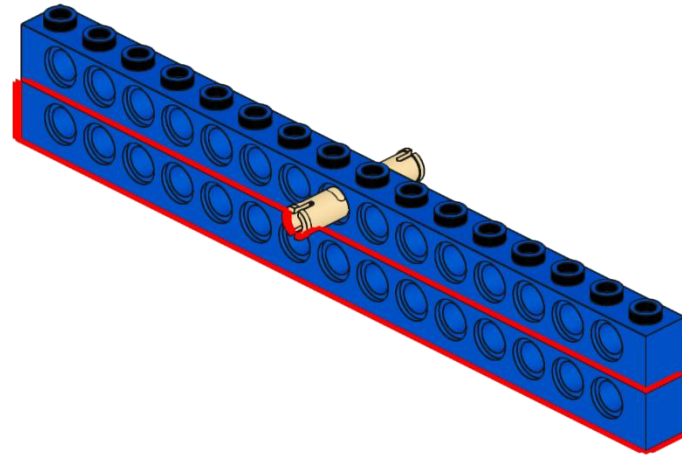
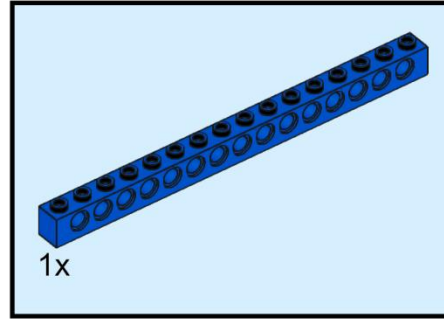
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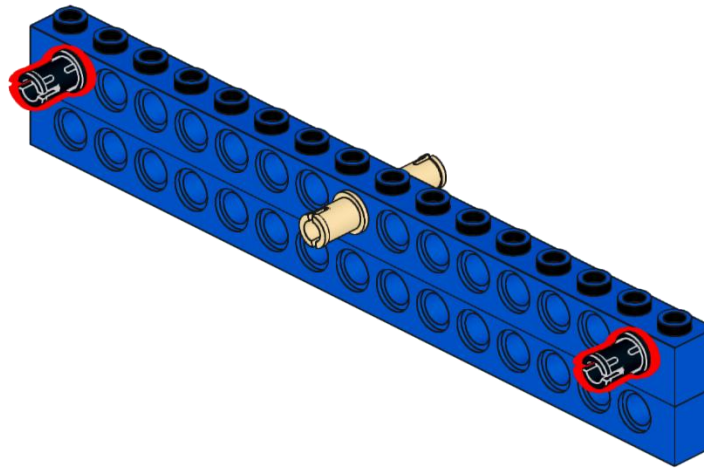
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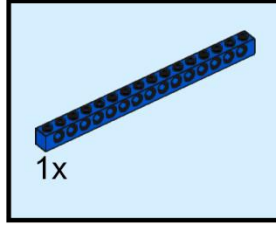
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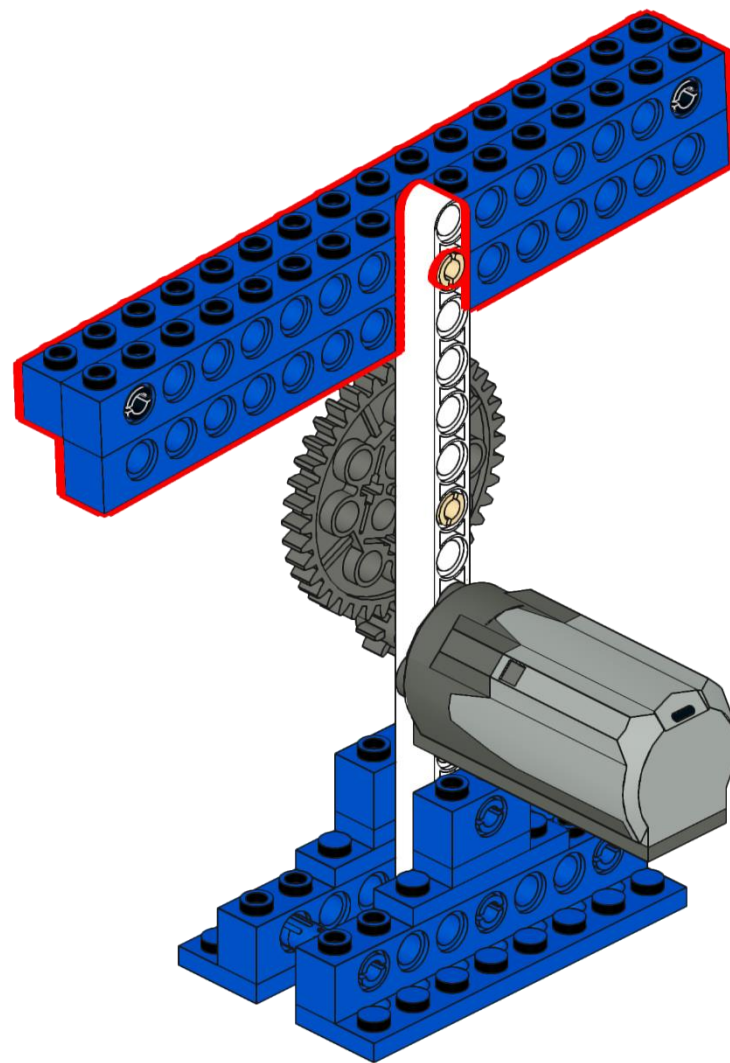
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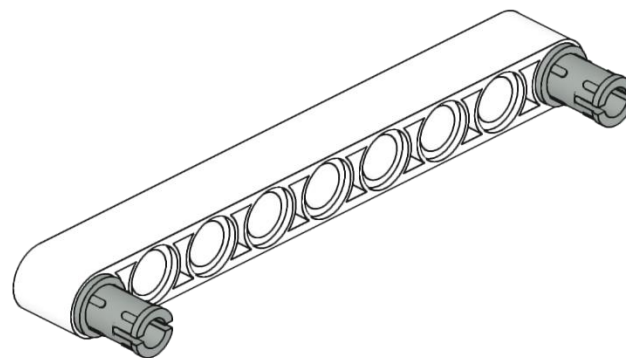
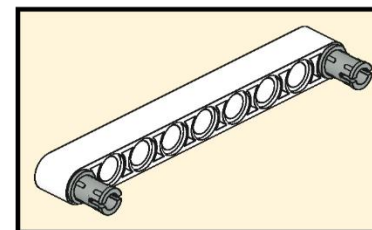
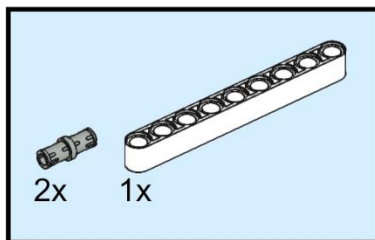
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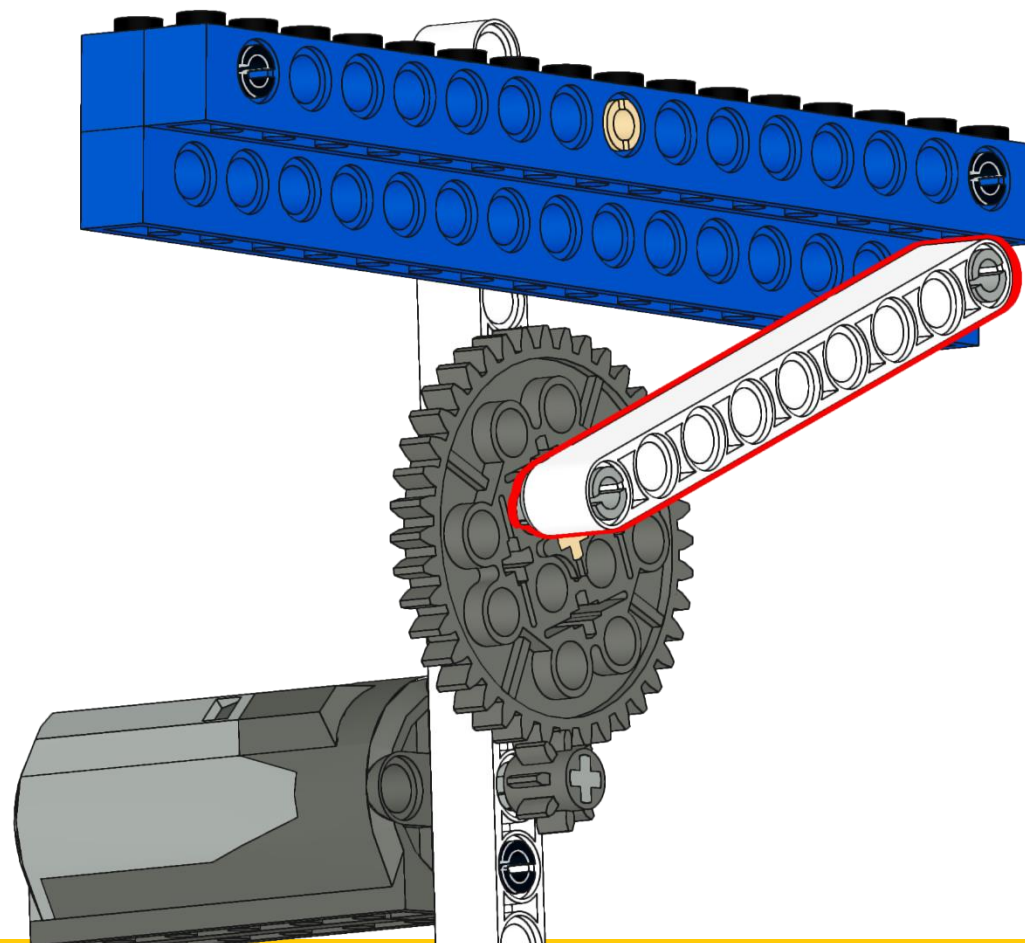
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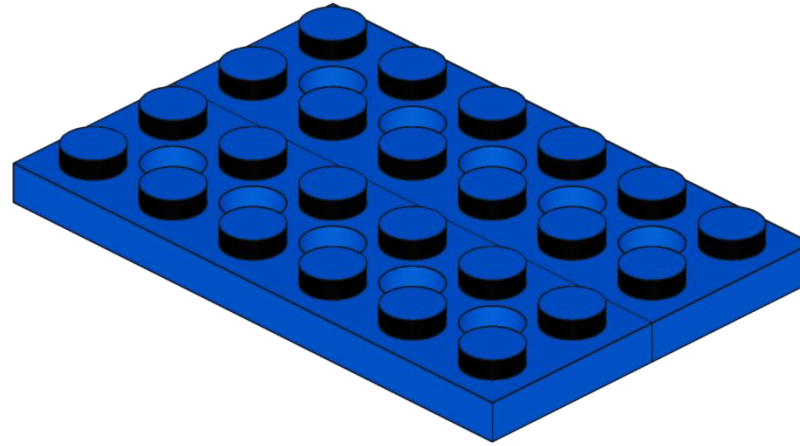
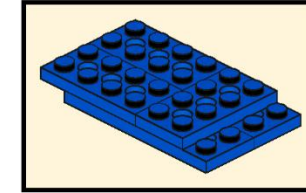
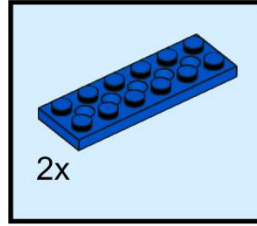
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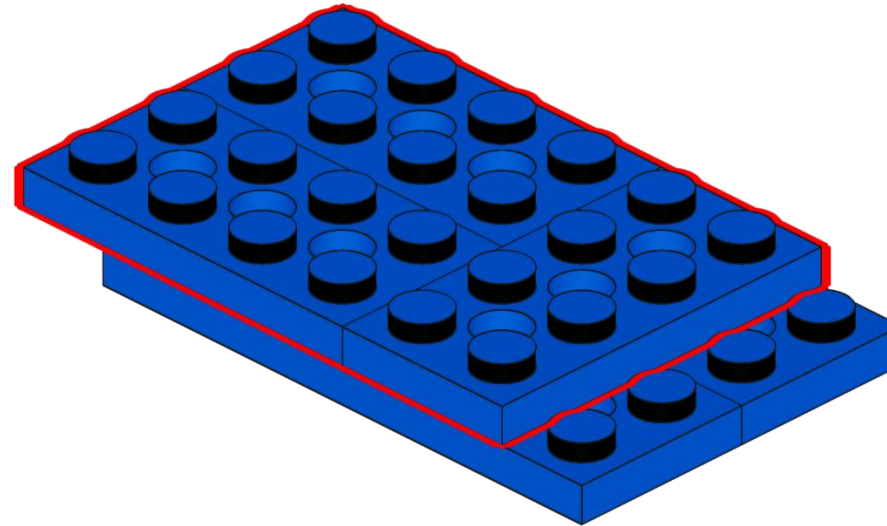
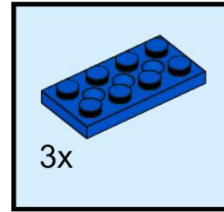
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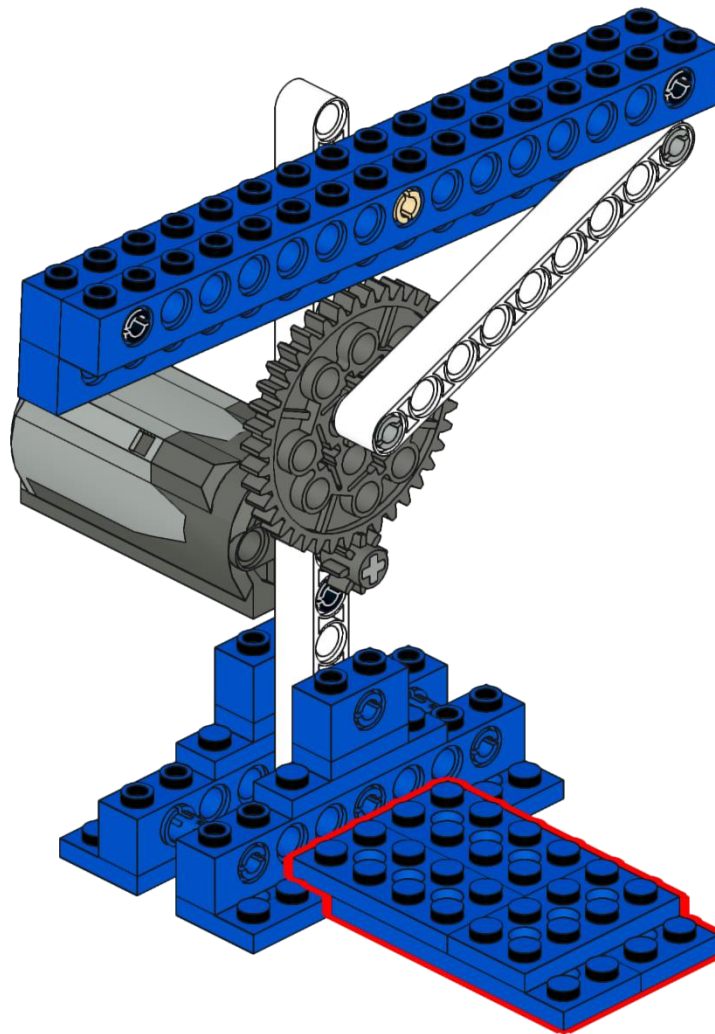
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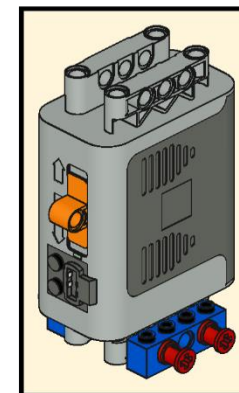
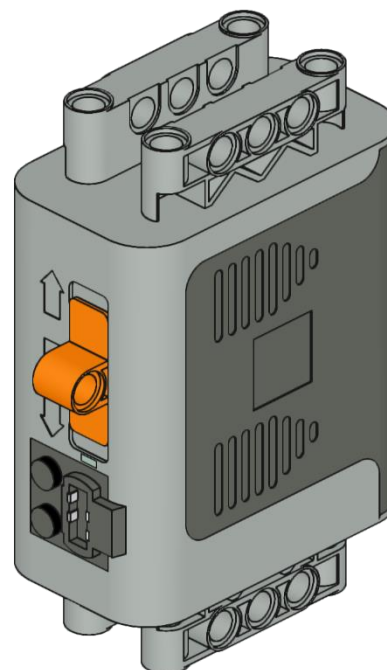
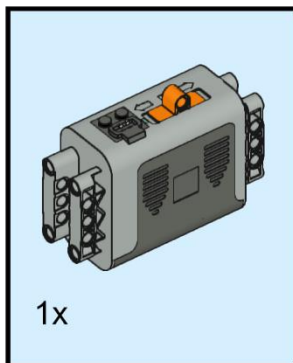
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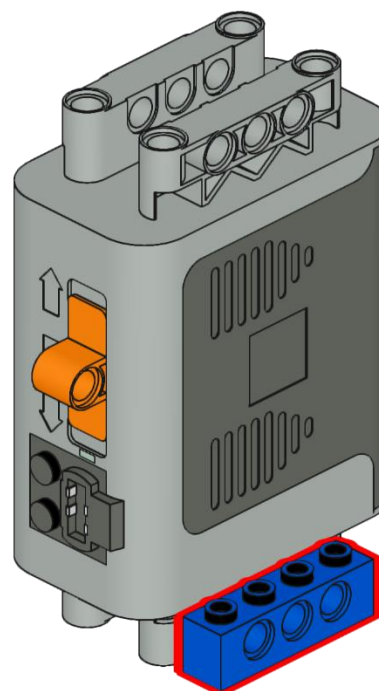
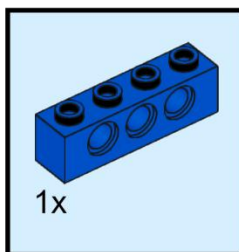
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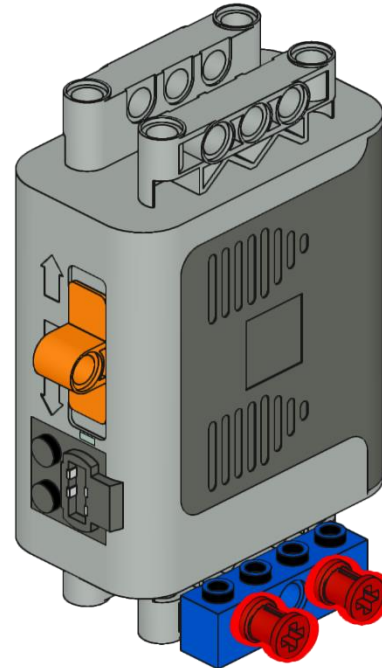
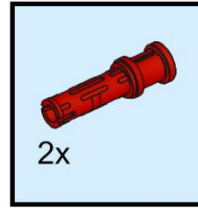
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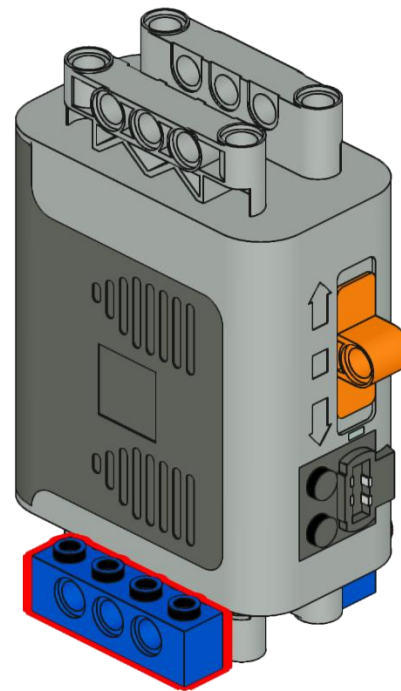
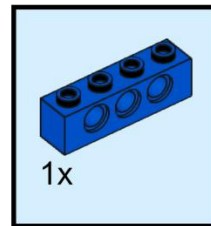
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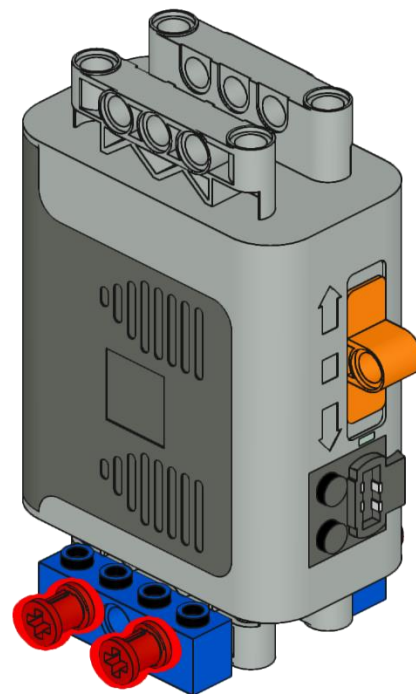
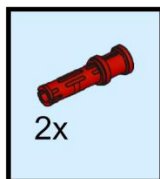
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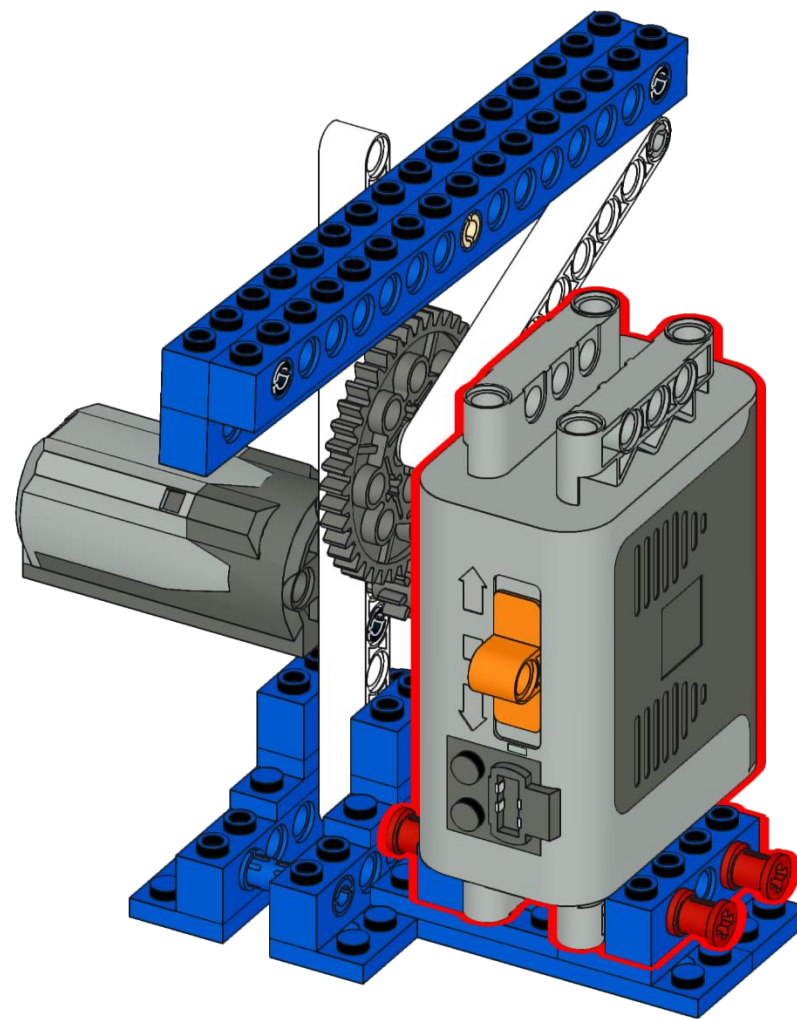
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*Când terminați foaia de lucru
dezasamblați-vă construcția
și puneți toate părțile la locul lor!*

