

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



SCIENCE • TECHNOLOGY • ENGINEERING • MATHEMATICS
for YOUNGSTERS

Прости машини



Co-funded by
the European Union



OTC ACADEMY



Какво е естествен
спътник?



Естественият спътник или луната е всеки естествен небесен обект, който се върти (в орбита) около планета или друг небесен обект.

Естественият спътник на Земята е Луната!



Какво е изкуствен спътник?

Изкуственият спътник е конструкция, направена от хора, която е поставена в орбита около Земята (или някой друг небесен обект)!



На 4 октомври 1957 година беше изстрелян първият изкуствен спътник на Земята, съветският **Sputnik 1**. Този ден е отбелязан като начало на космическата ера. Скоро след това последва американският **Explorer 1**.



Изкуствените спътници изпращат съобщения до Земята, за да ни помогнат да се ориентираме (GPS), да ни информират за времето, да ни позволят да гледаме телевизионни канали и др.



На Земята можем да получаваме съобщенията, изпратени от изкуствените спътници, с помощта на сателитни антени, които се въртят!



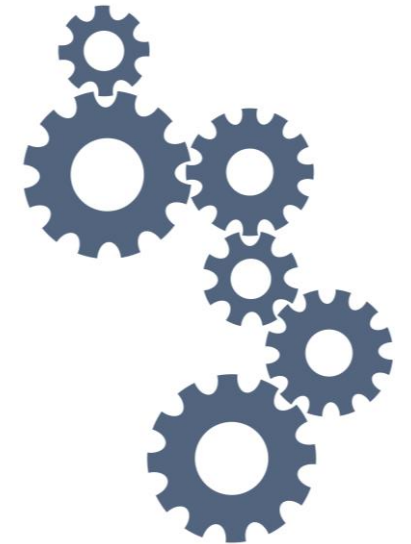
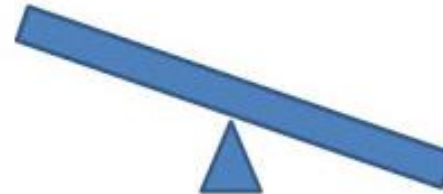
Предавател



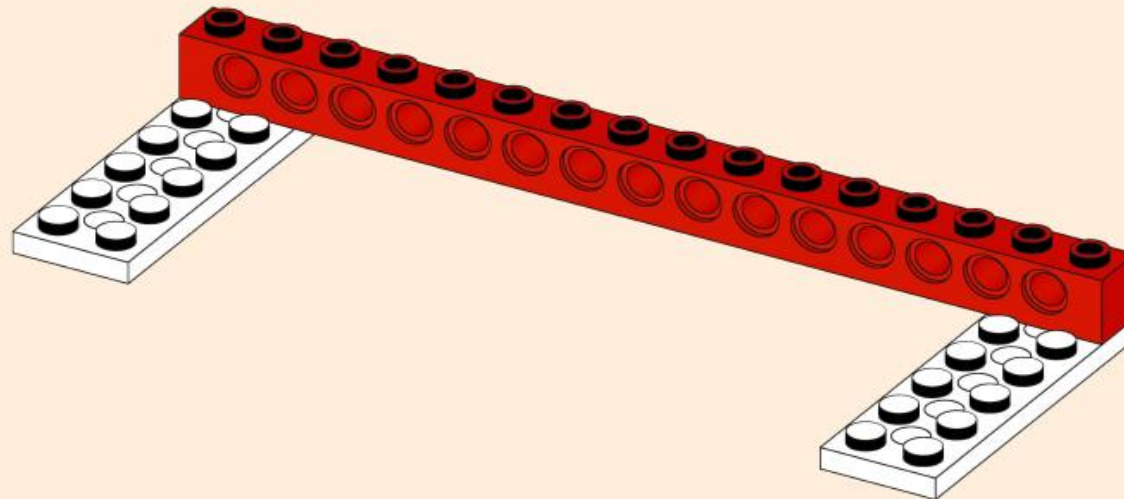
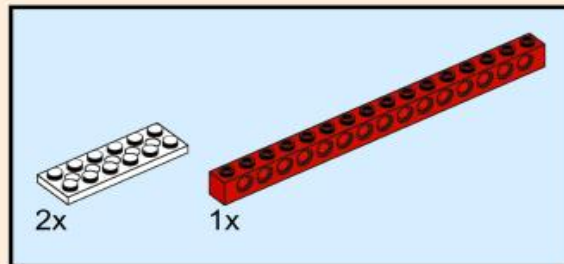
Приемник

Можете ли да направите
сателитна антена, която се върти?

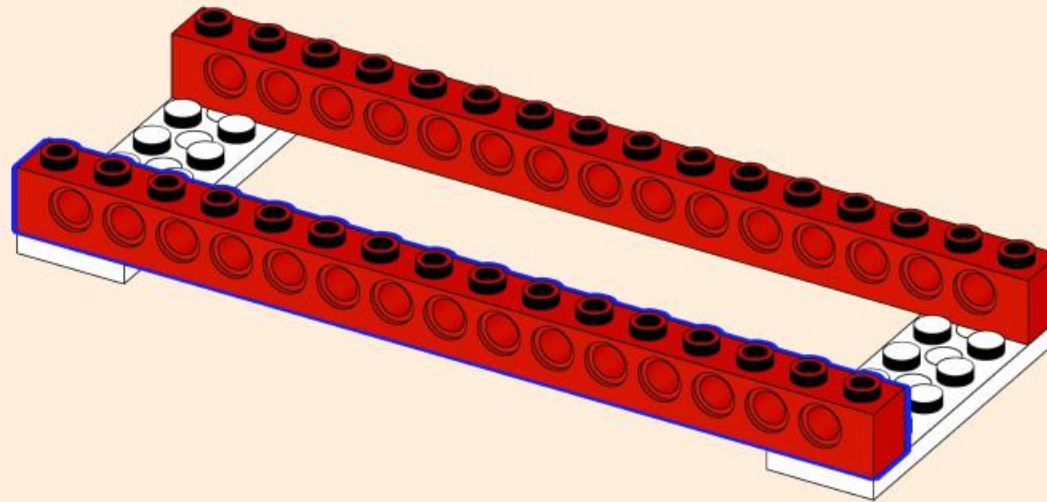
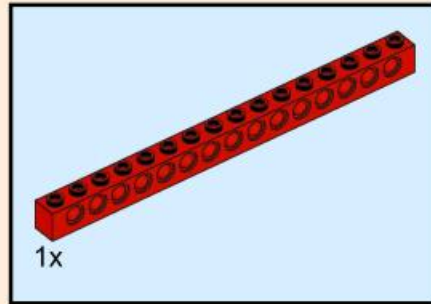
Коя проста машина можете да използвате, за да
накарате сателитната антена да се върти?



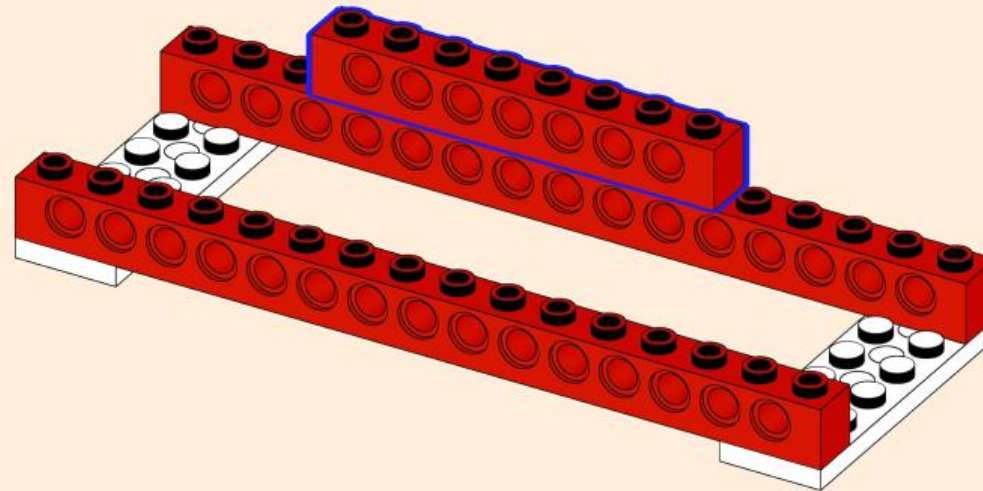
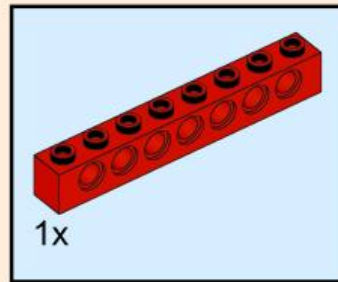
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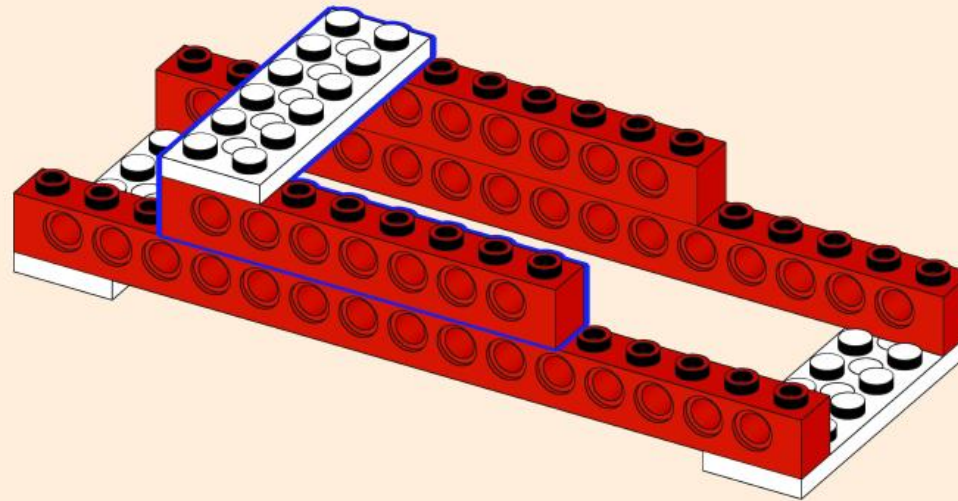
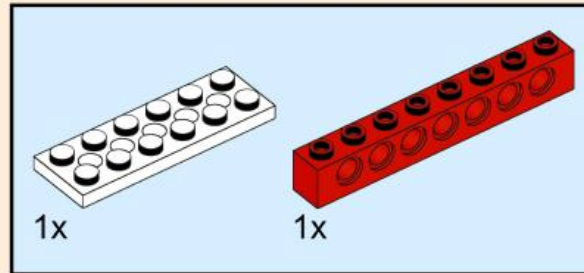
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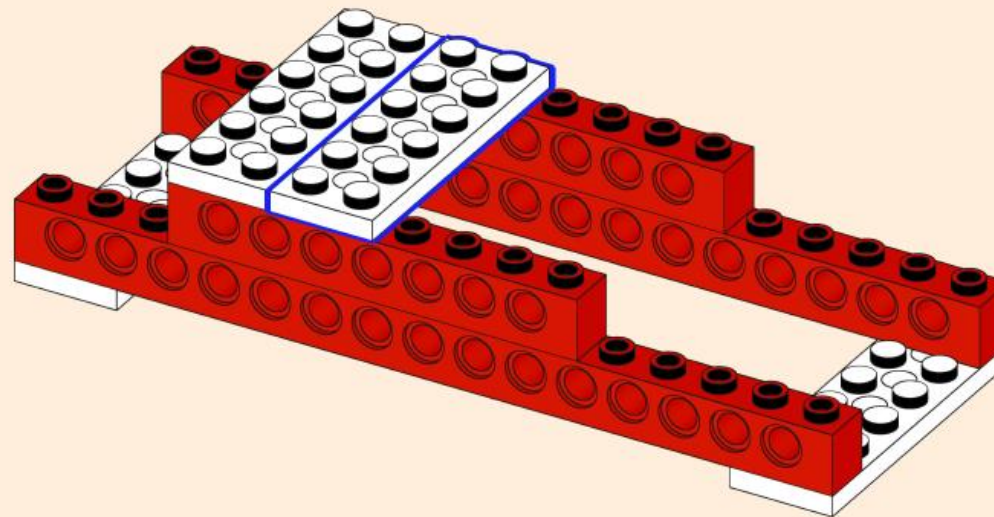
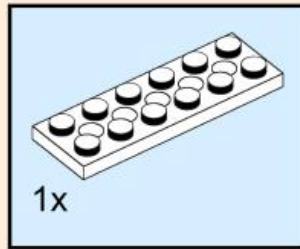
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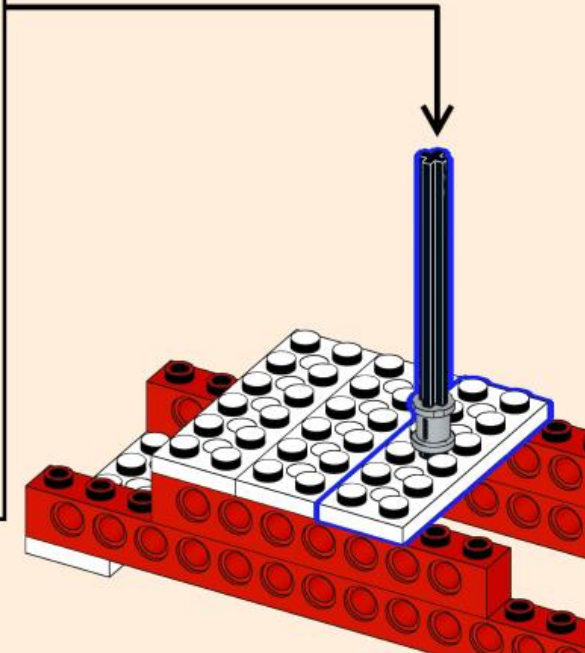
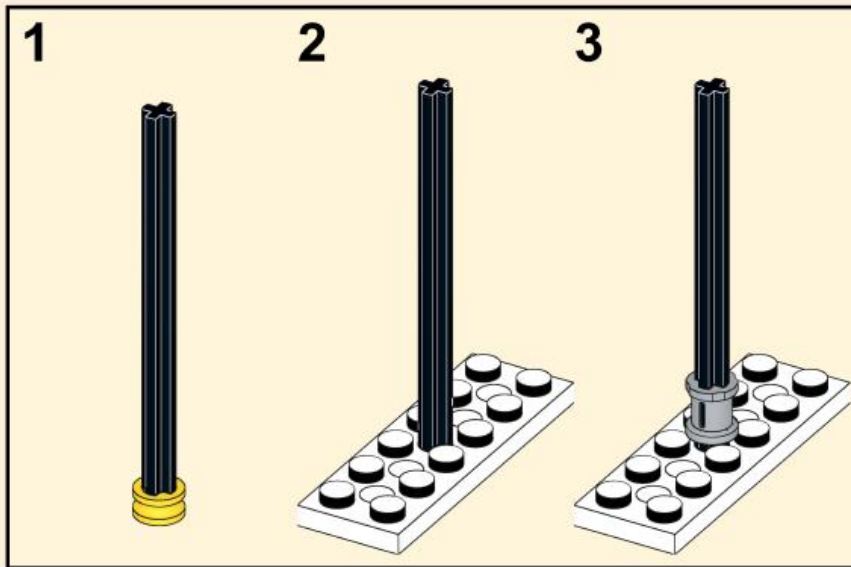
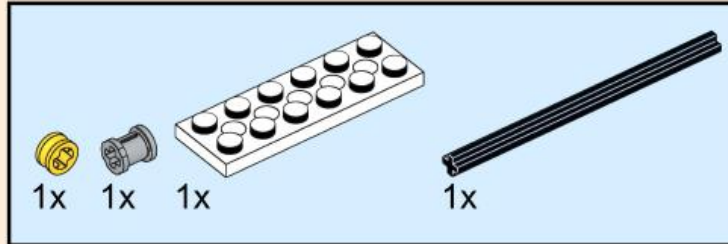
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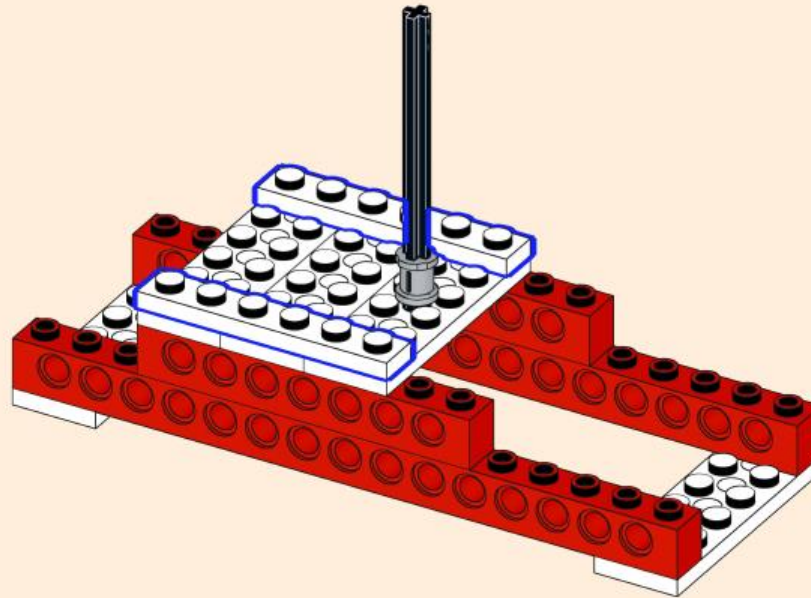
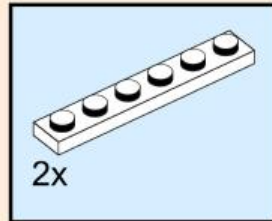
Simple machines

SATELLITE DISH

6



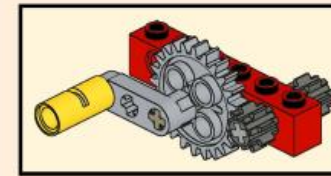
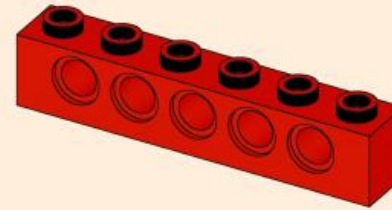
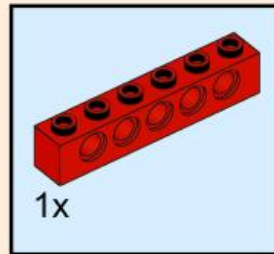
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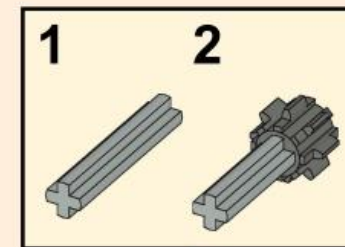
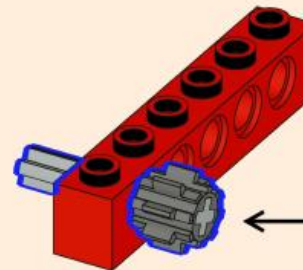
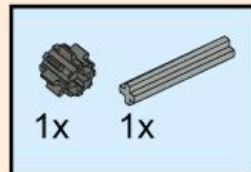
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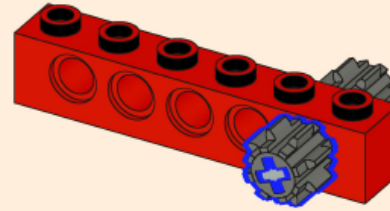
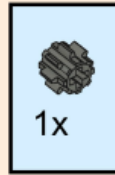
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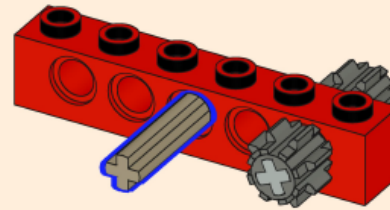
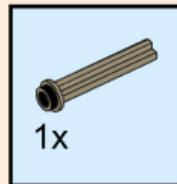
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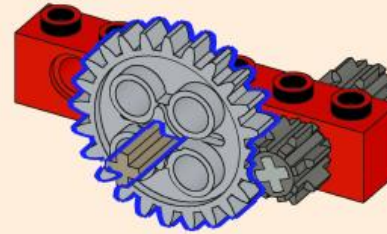
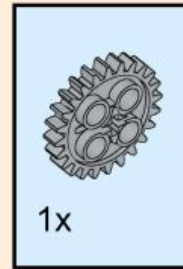
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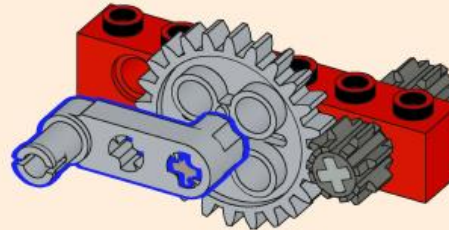
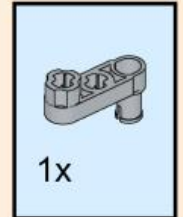
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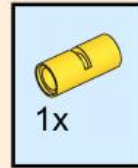
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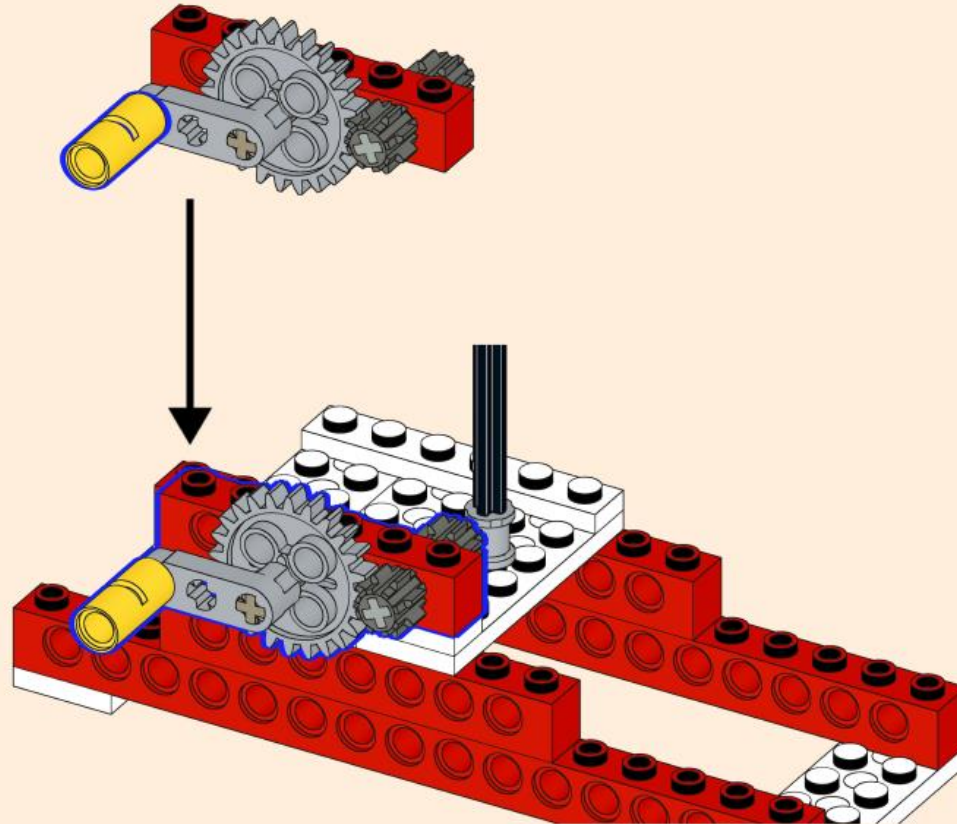
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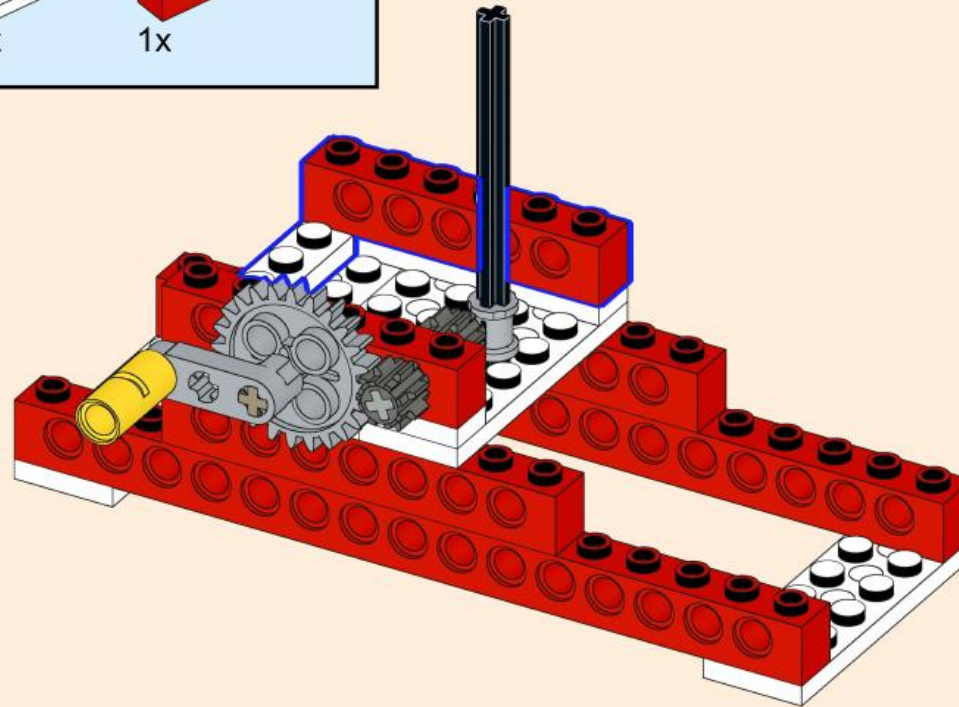
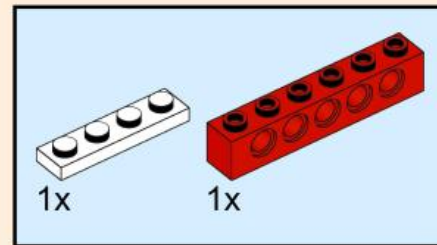
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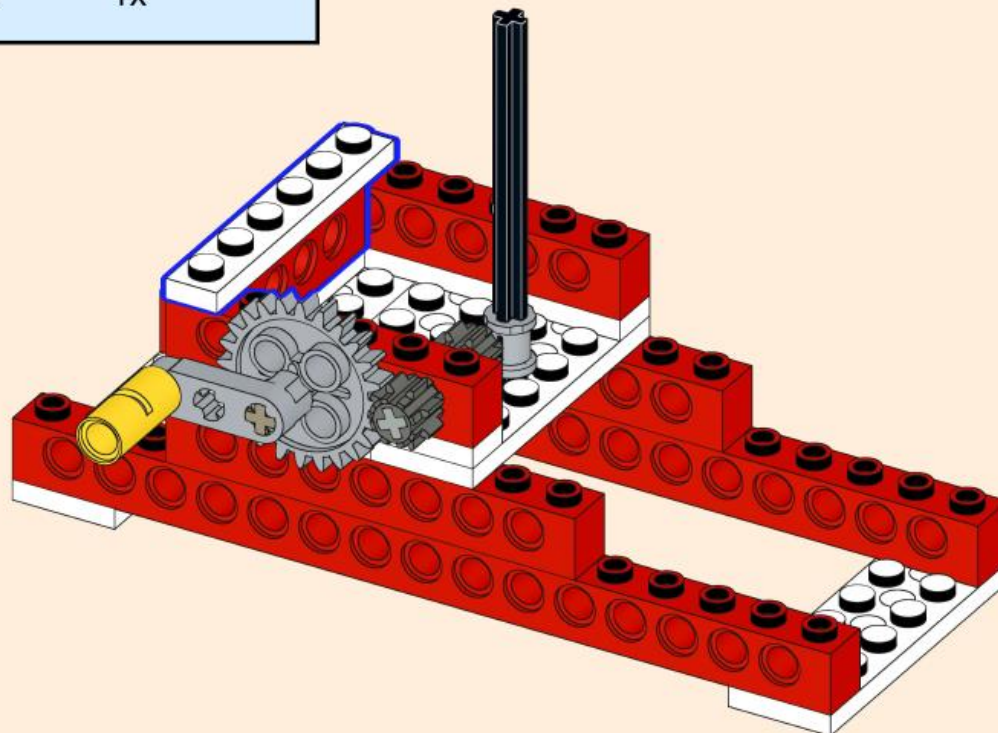
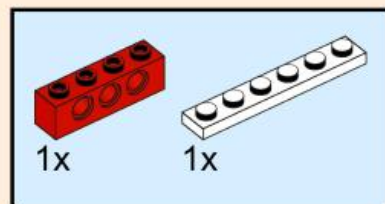
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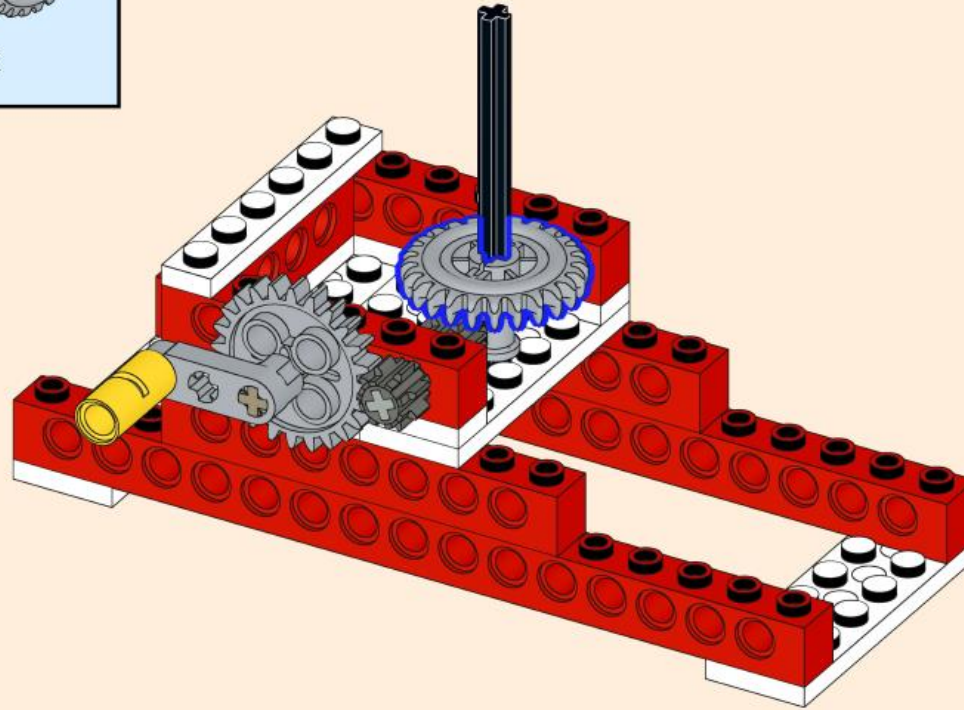
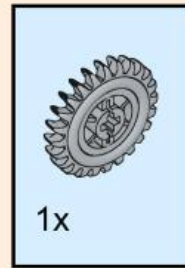
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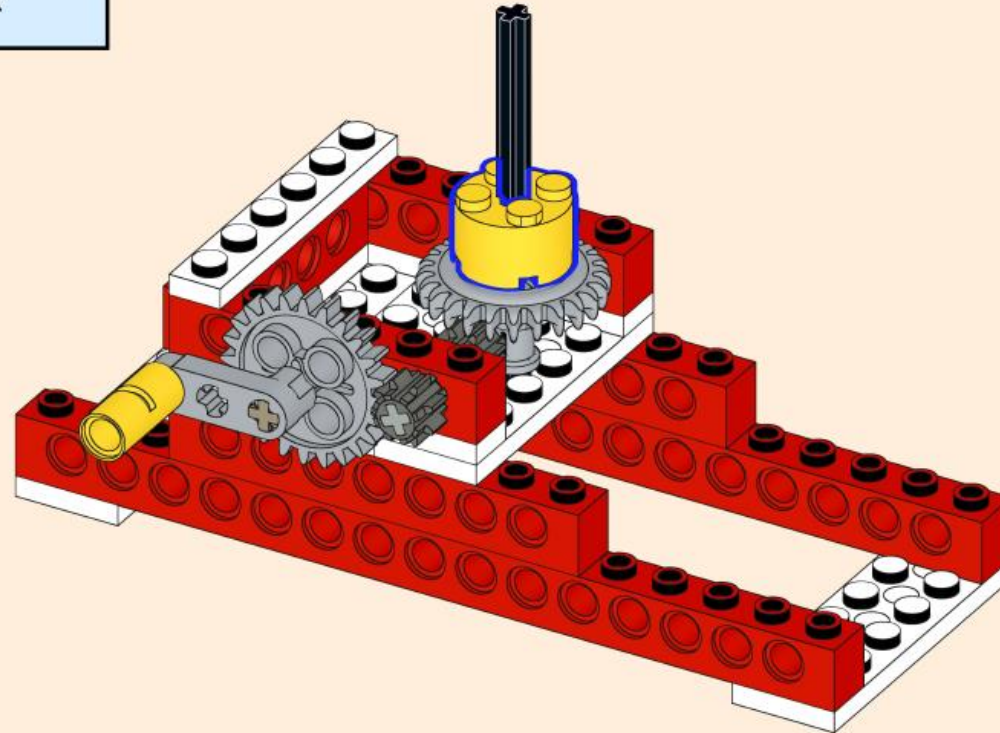
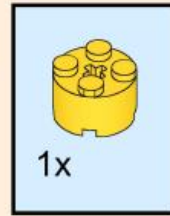
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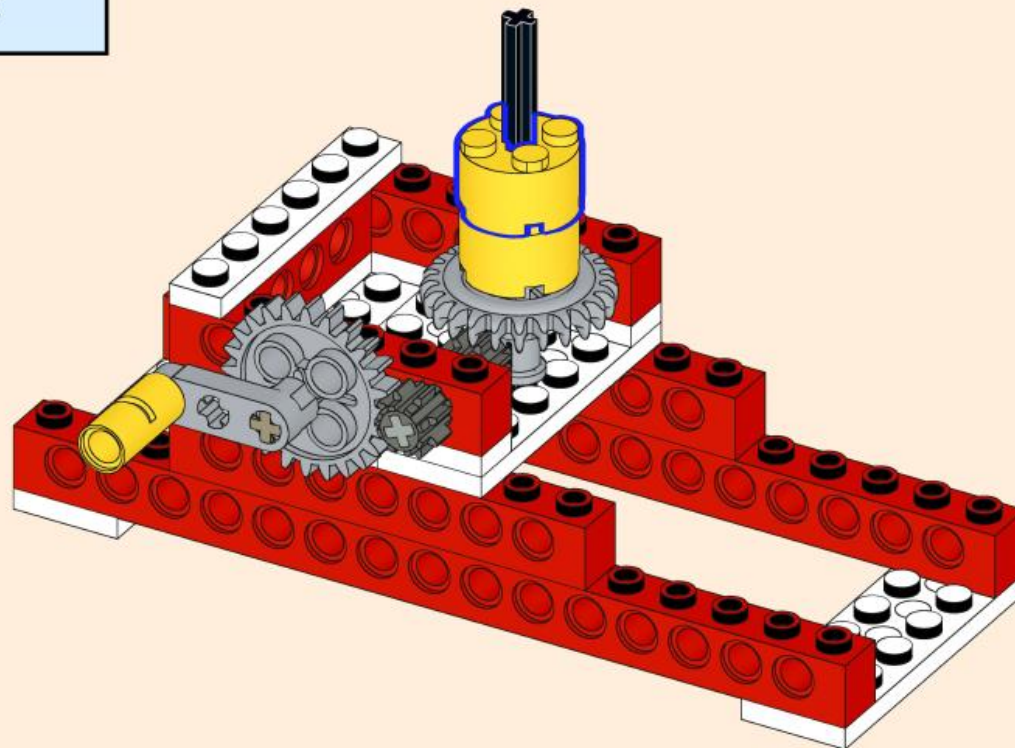
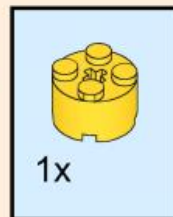
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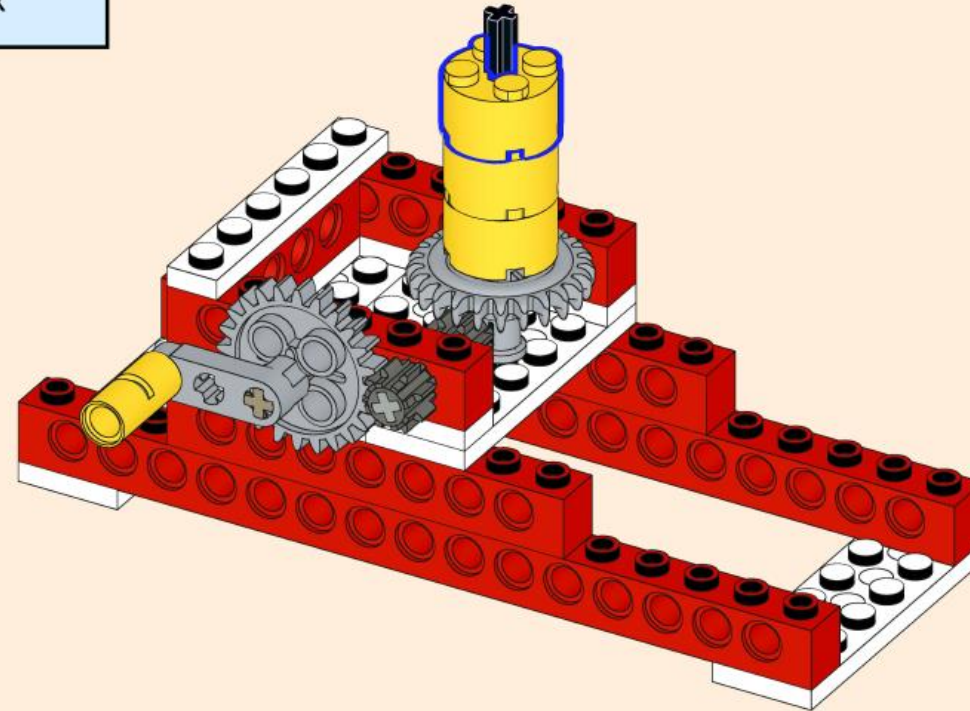
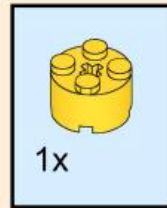
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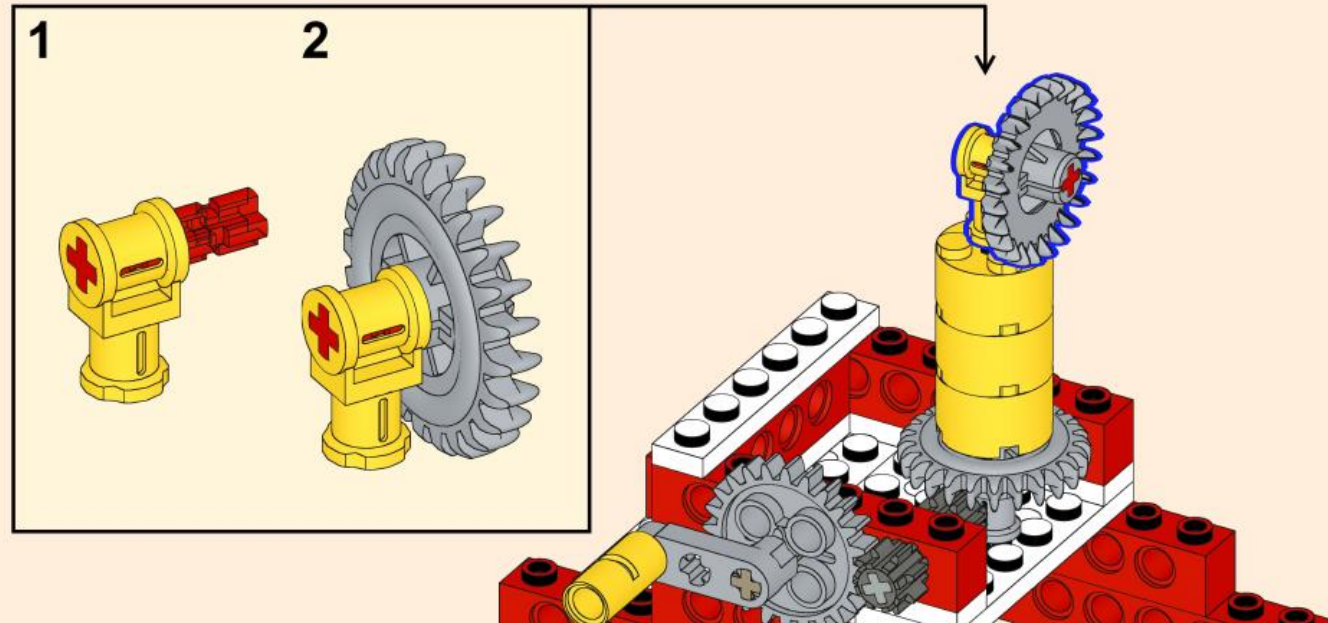
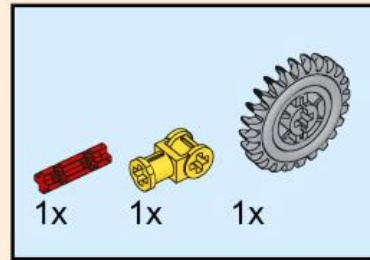
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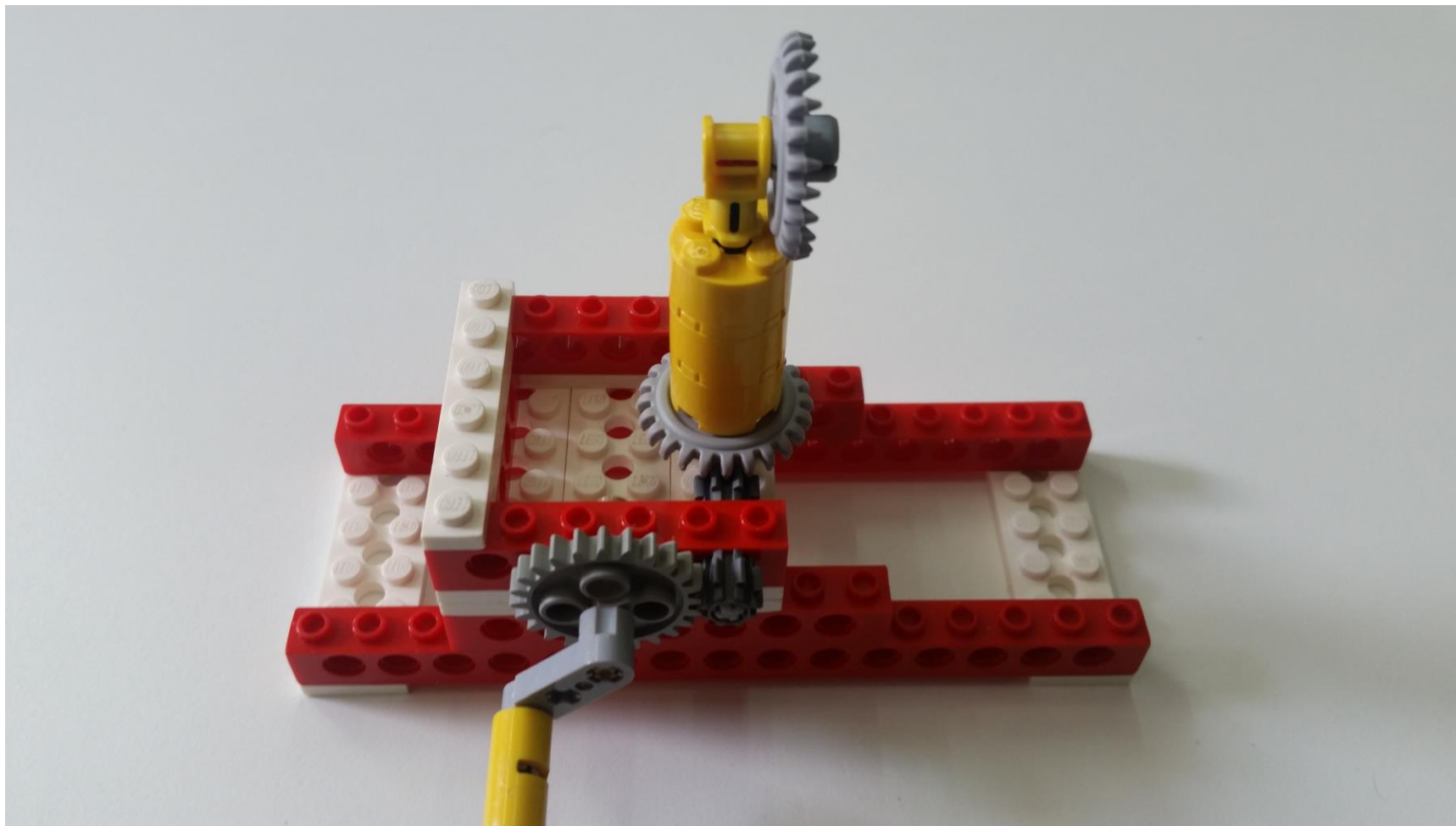


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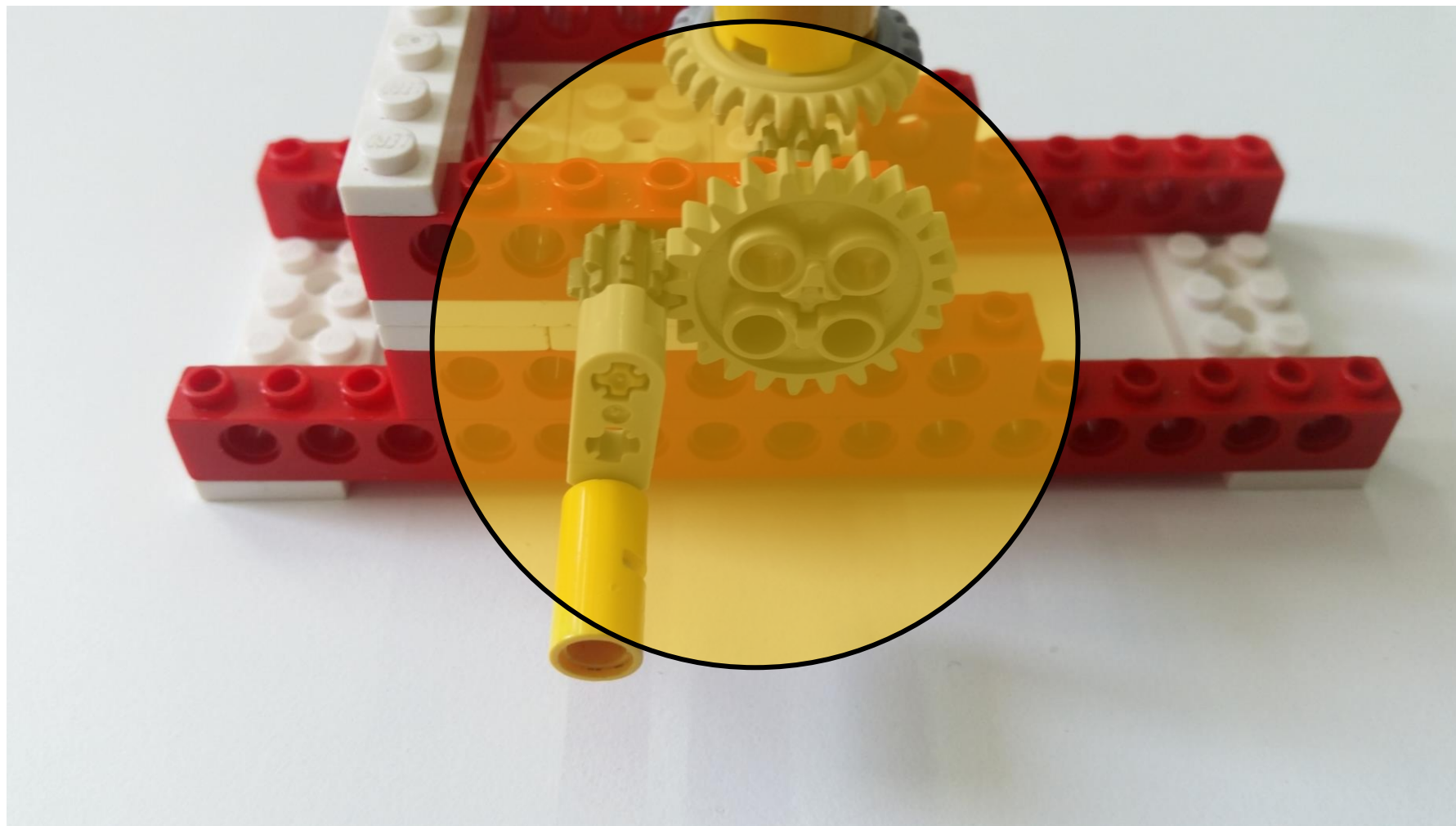




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Променете позицията на двете зъбни колела и забележете разликата.



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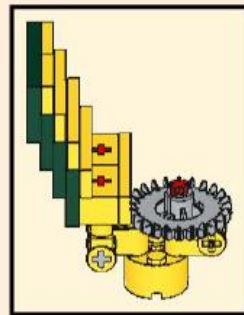
Как можем да проследим сигнала?



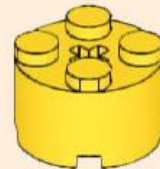
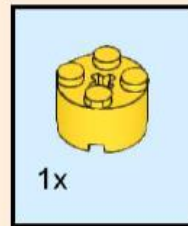
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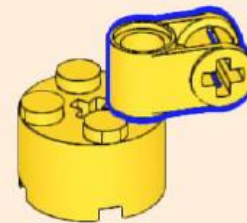
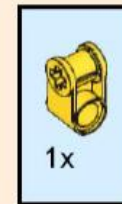
Как можем да проследим сигнала?



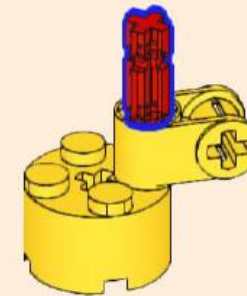
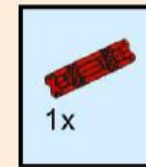
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Simple machines

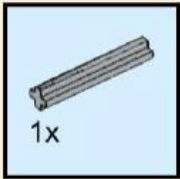
SATELLITE DISH

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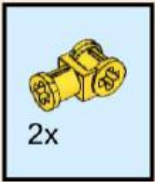
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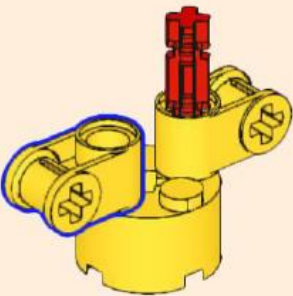


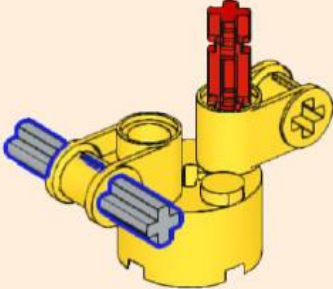
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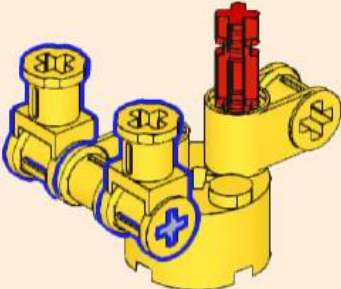
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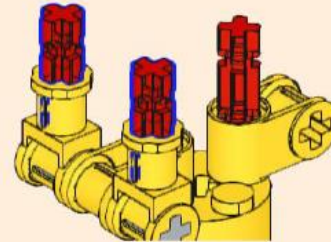
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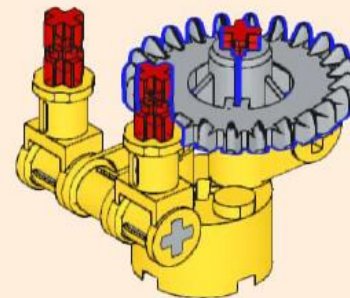
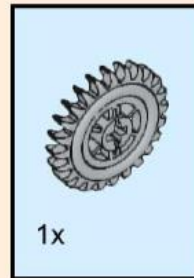




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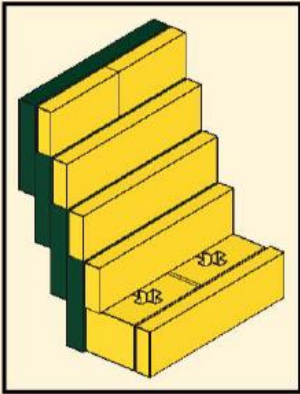


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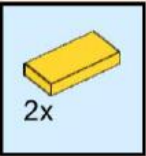


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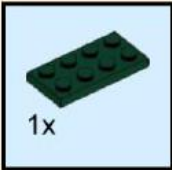
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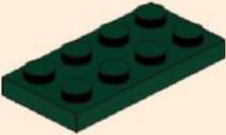


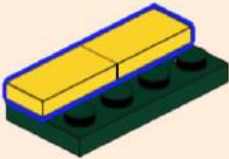
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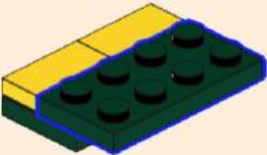
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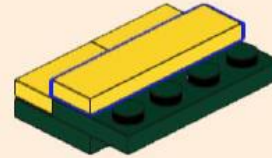
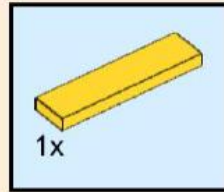
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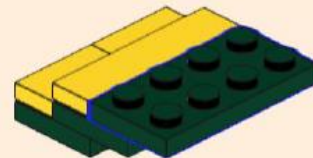
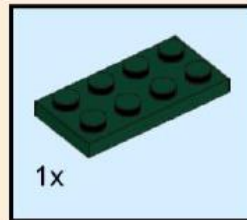




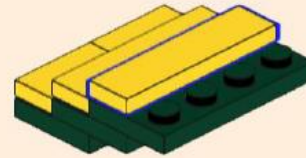
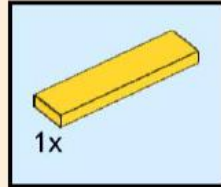
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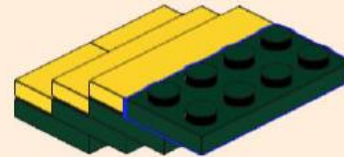
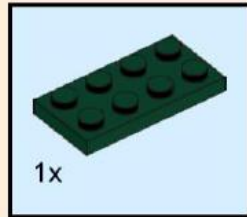
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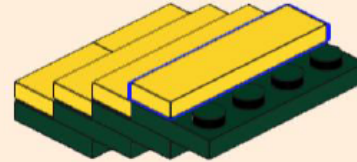
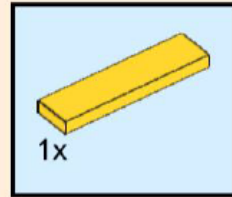
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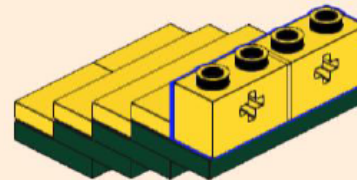
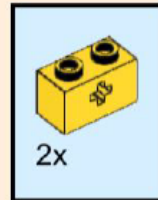
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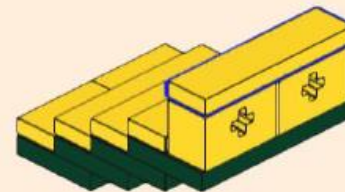
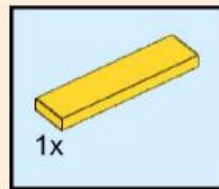
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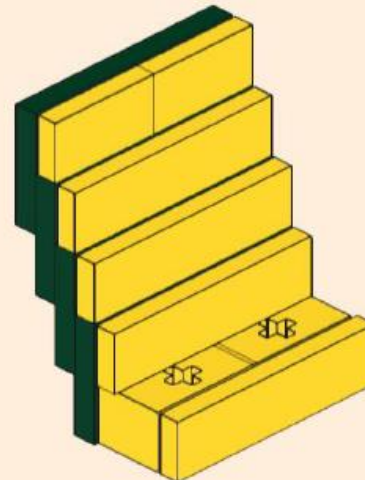
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