



## Прости и задвижвани машини













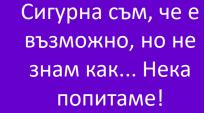




Искам да построя нещо, което да се движи нагоренадолу с помощта на двигателя, но все още не съм успял... Мога да се движа само по права линия...

Не мисля, че това, което казваш, е възможно...









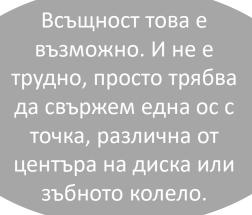














**Off-centered motion** 



Този механизъм се нарича "ексцентрик" и се намира в нашия комплект. Ще говорим за него в друг урок.











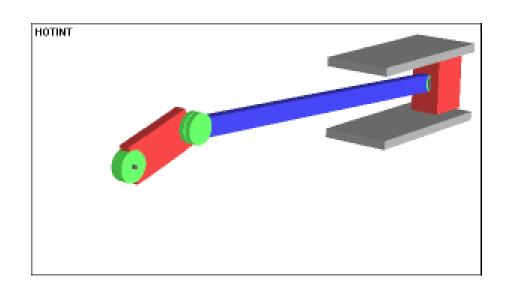




#### **Off-centered motion**

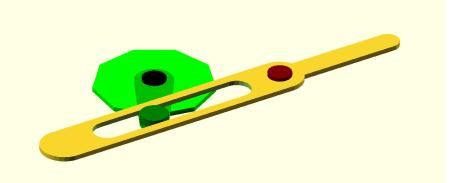


Това е механизъм, който преобразува въртеливото движение във възвратнопостъпателно (нагоре-надолу, назад-напред).





Използва се в буталата, в колелата на влаковете и, разбира се, в играчките!









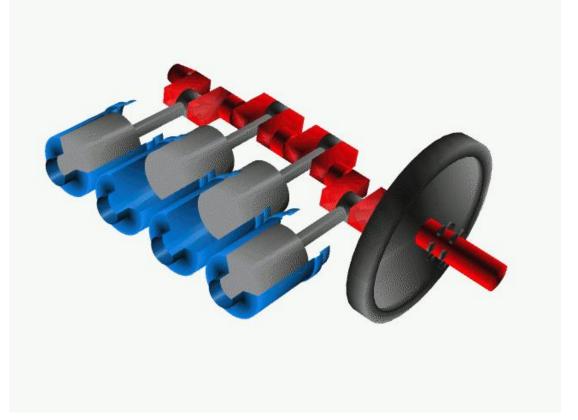








# Вижте как въртеливото движение се трансформира в линейно















Frasmus+

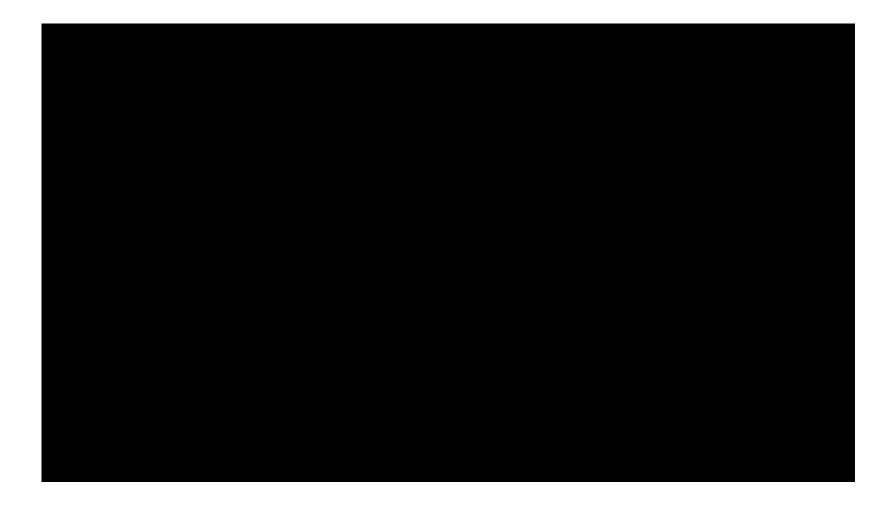
Project No.: 2021-1-EL01-KA220-SCH-000023967

KA220-SCH - Cooperation partnerships in school education

STEM Education for Primary Schools STEM for Youngsters

Call 2021 Round 1 KA2

## **Simple & Powered Machines**















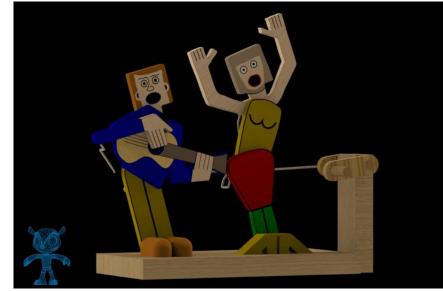






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## Играчки с нецентрирано движение









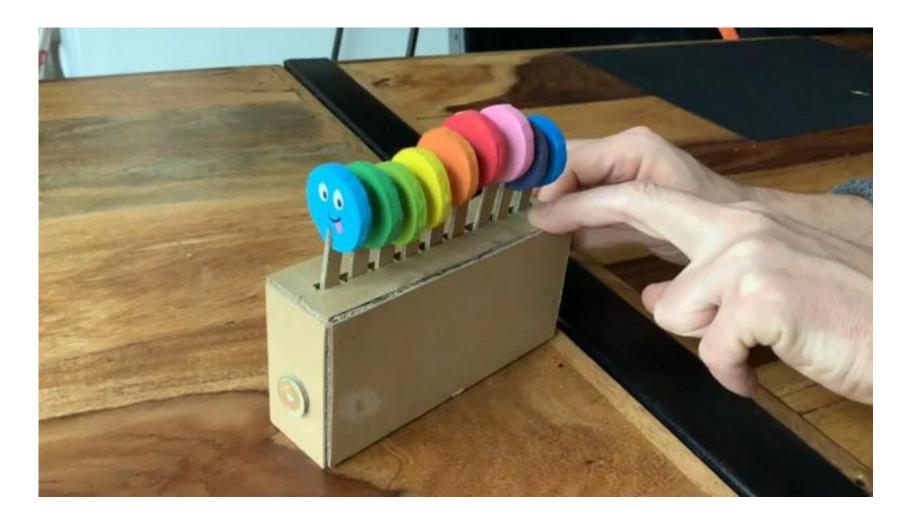






















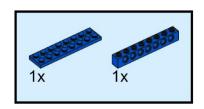


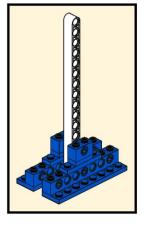


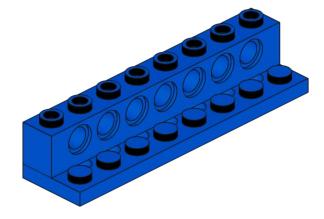


Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
STEM Education for Primary Schools

#### **Simple & Powered Machines**















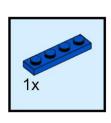


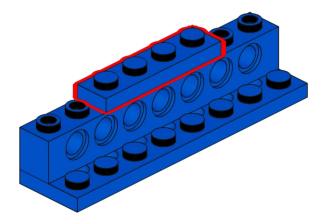


















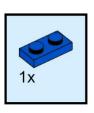


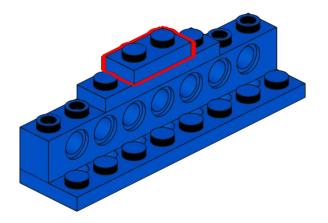






#### **Simple & Powered Machines**











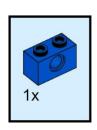


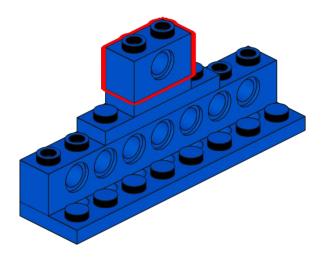






## **Simple & Powered Machines**











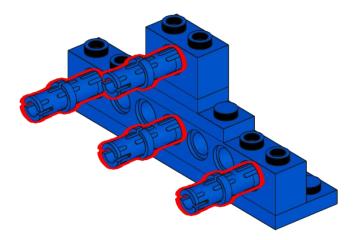






STEM for Youngsters













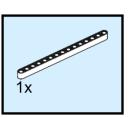


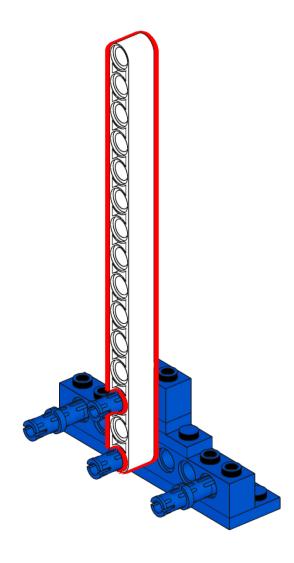






## **Simple & Powered Machines**













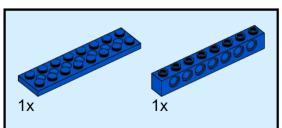


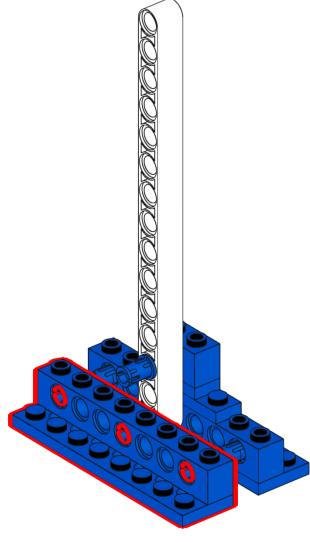






## **Simple & Powered Machines**













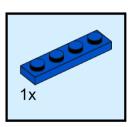


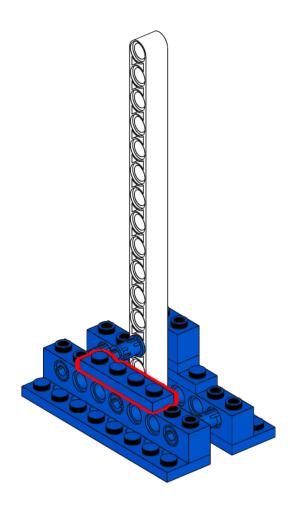






## **Simple & Powered Machines**













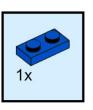


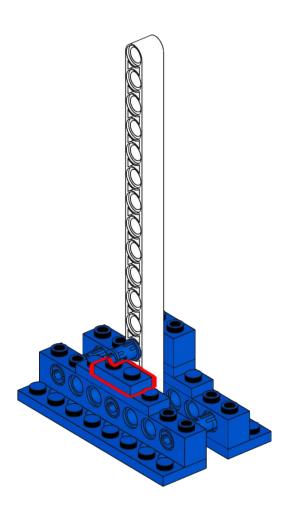






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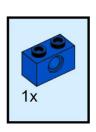


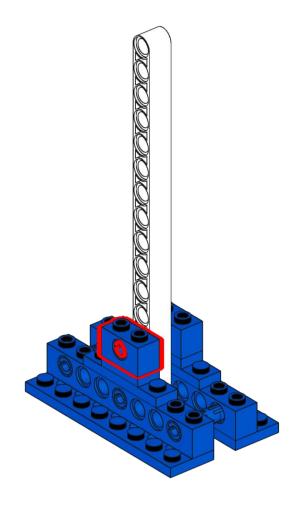






















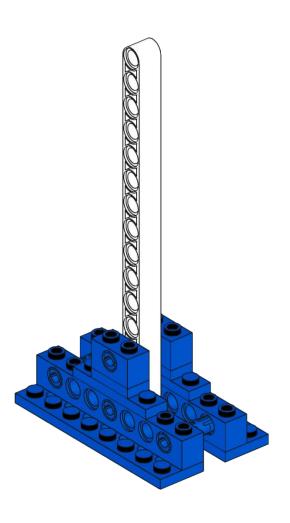






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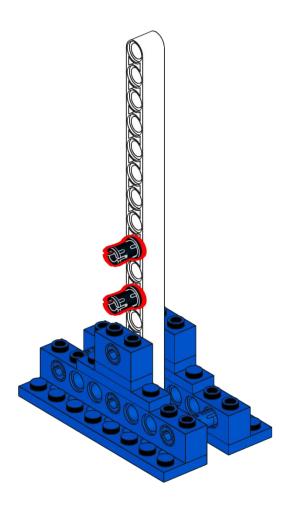






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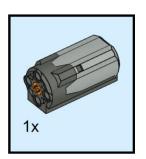


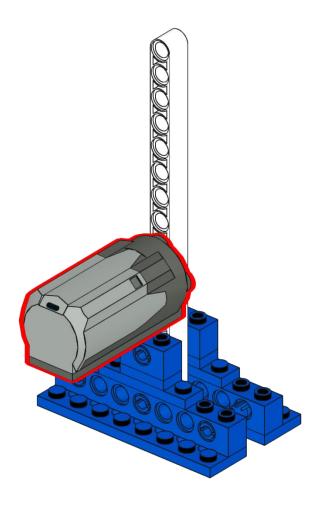




## **Simple & Powered Machines**

#### **Off-centered motion**











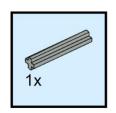


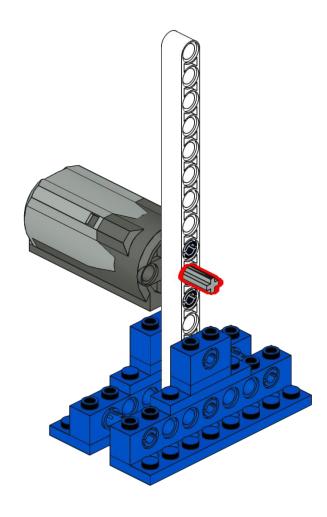


















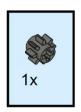


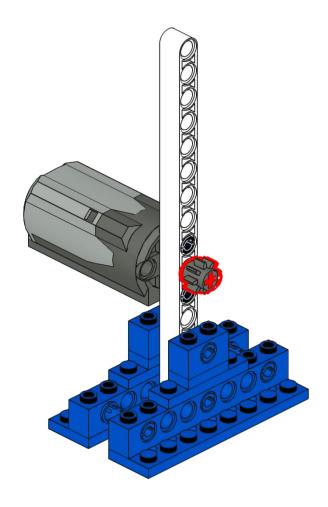






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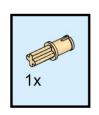


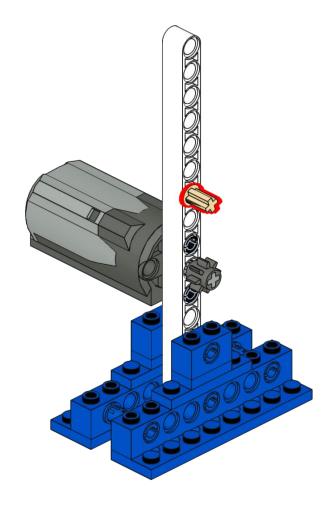




















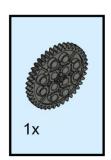


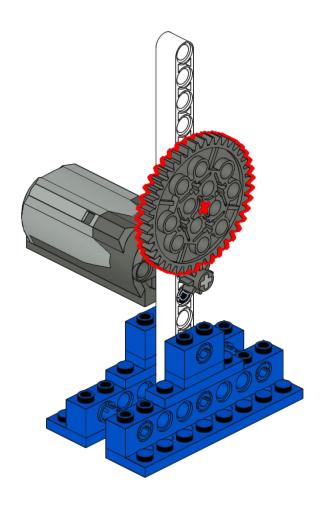






## **Simple & Powered Machines**

















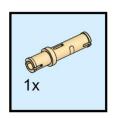


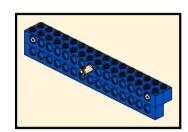


Project No.: 2021-1-EL01-KA220-SCH-000023967

STEM Education for Primary Schools STEM for Youngsters

## **Simple & Powered Machines**

















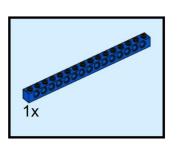


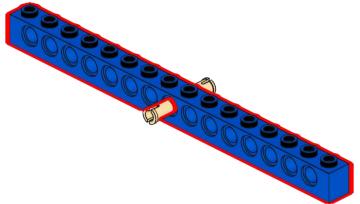




#### **Simple & Powered Machines**

#### **Off-centered motion**











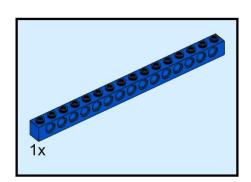






















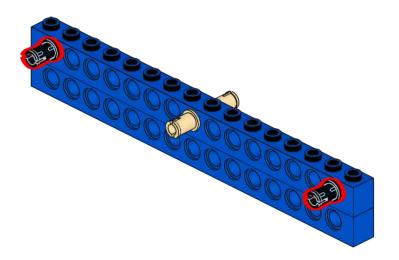


















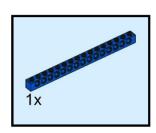




















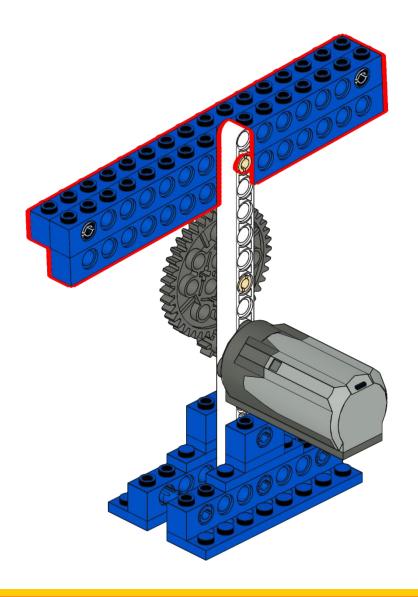
















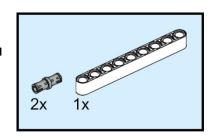


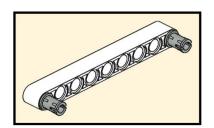


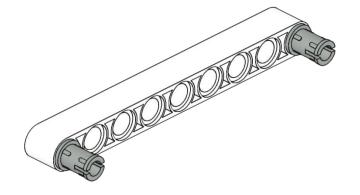




















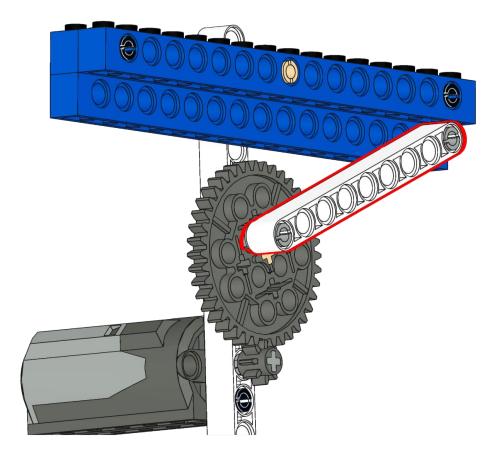








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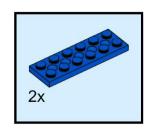


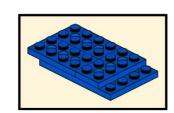


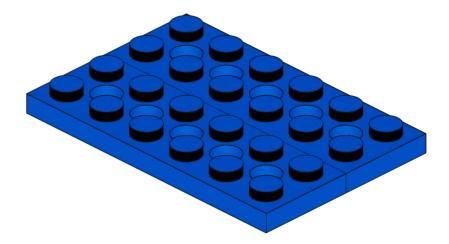




















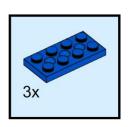


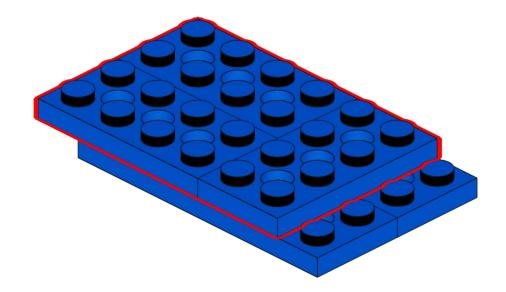






## **Simple & Powered Machines**









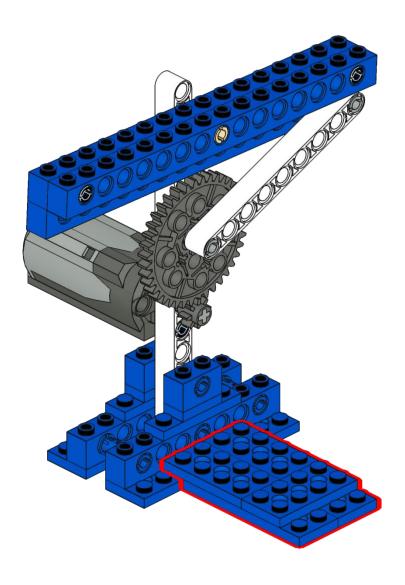




















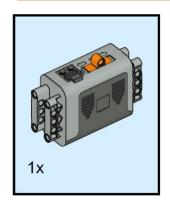


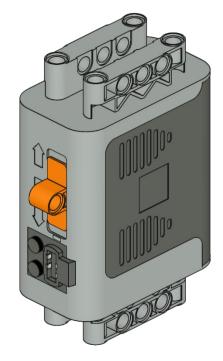


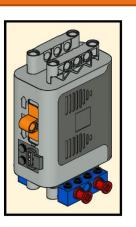




## **Simple & Powered Machines**













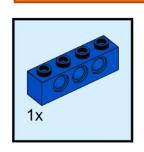


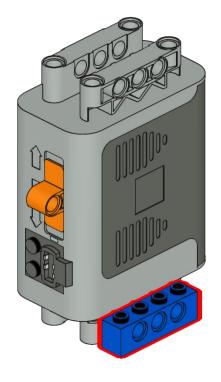


















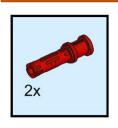


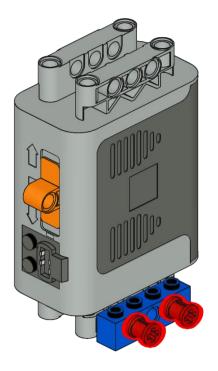






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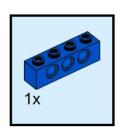


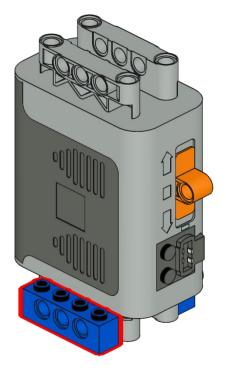




















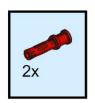


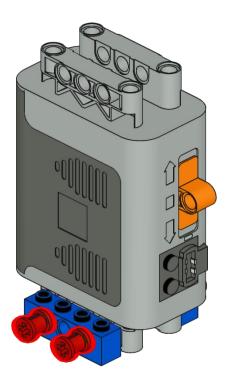






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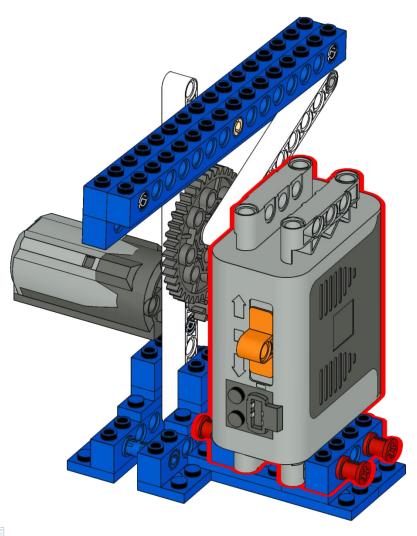




























Когато завършите работния лист, разглобете конструкцията си и поставете всички части на мястото им.















