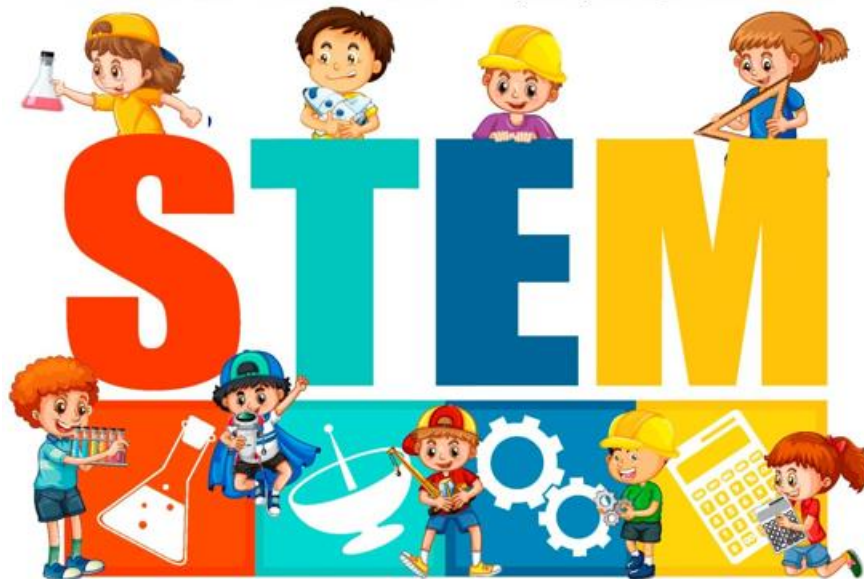




Project No.: 2021-1-EL01-KA220-SCH-000023967

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



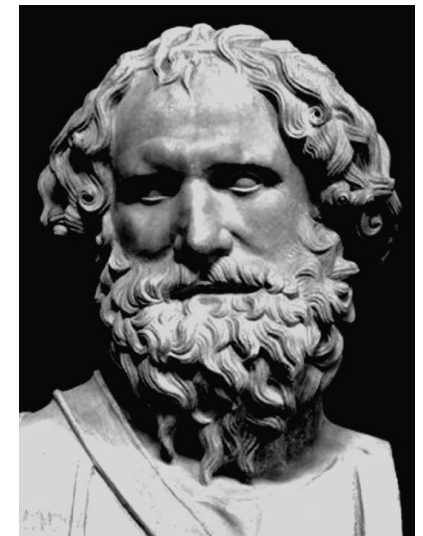
OTC ACADEMY



Днешната проста машина е лостът.

Архимед е изобретил (лоста) в Древна Гърция. Той е учен от Сиракуза на Сицилия.

Архимед е направил много изобретения. Той е велик учен.



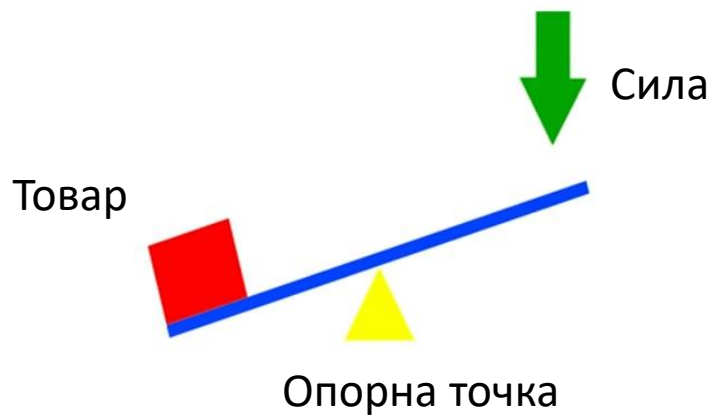


Веднъж го попитали дали лостът е полезен. Той отговорил: „Дайте ми опорна точка и ще преместя Земята.“

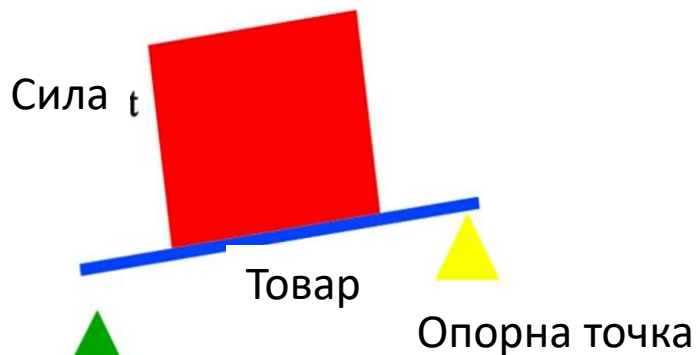
Лостът е твърд обект, който не се огъва. С помощта на опорна точка увеличава силата, която се прилага от един обект върху друг.



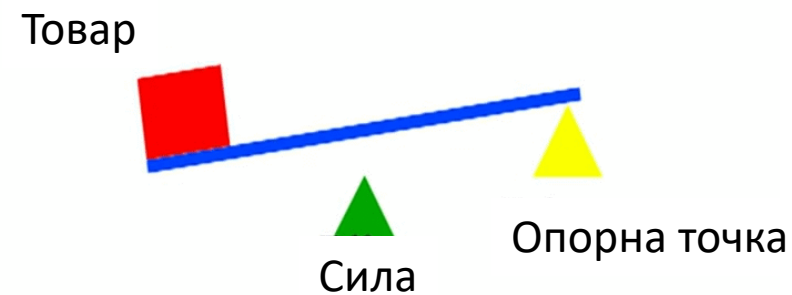
В зависимост от положението на опорната точка и приложената сила, съществуват три типа лостове.



Първи тип: опорната точка е в средата.



Втори тип: товарът е в средата.



Трети тип: силата е в средата.

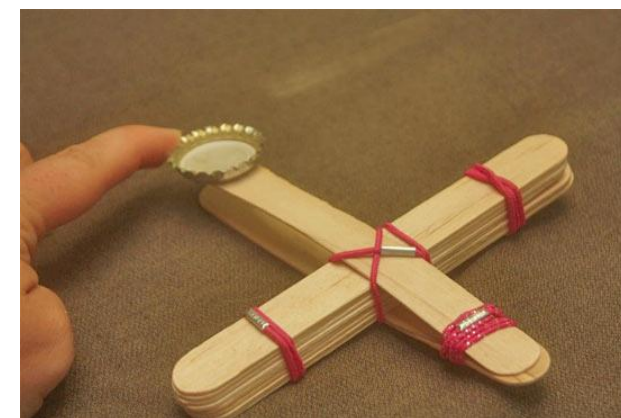
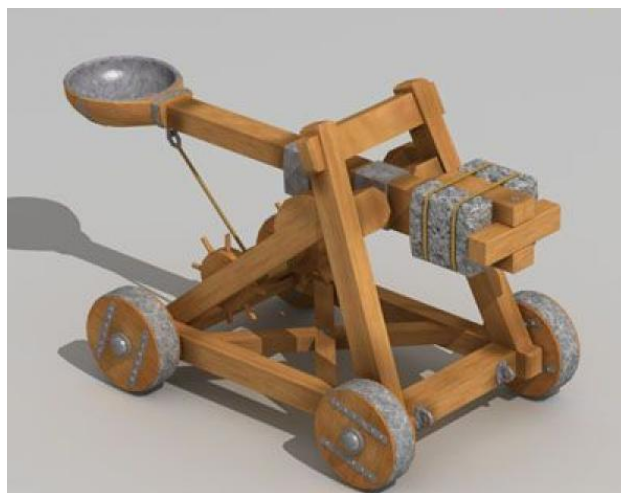
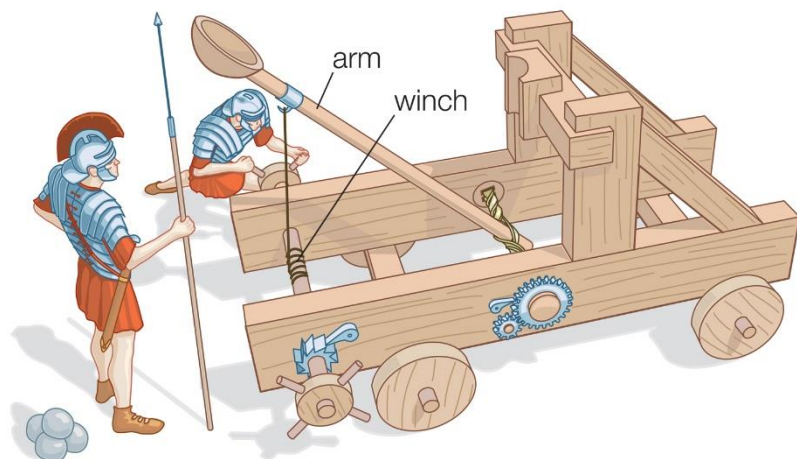
Можете ли да се сетите за примери за всеки тип?

Ето някои примери. Назовете обектите и посочете къде се намират опорната точка, силата и товара.





Днес ще строим
катапулти. Знаете ли
какво представляват те
и къде са били
използвани?

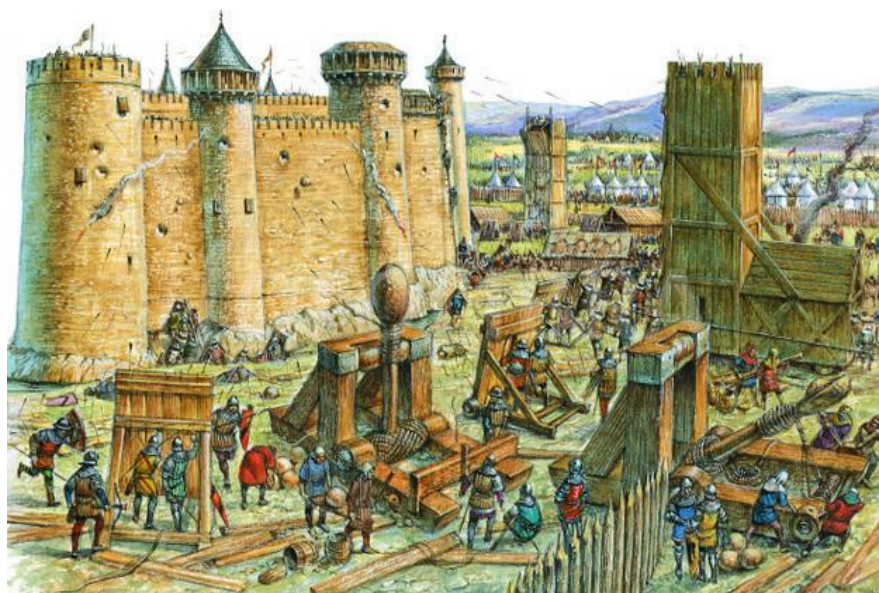


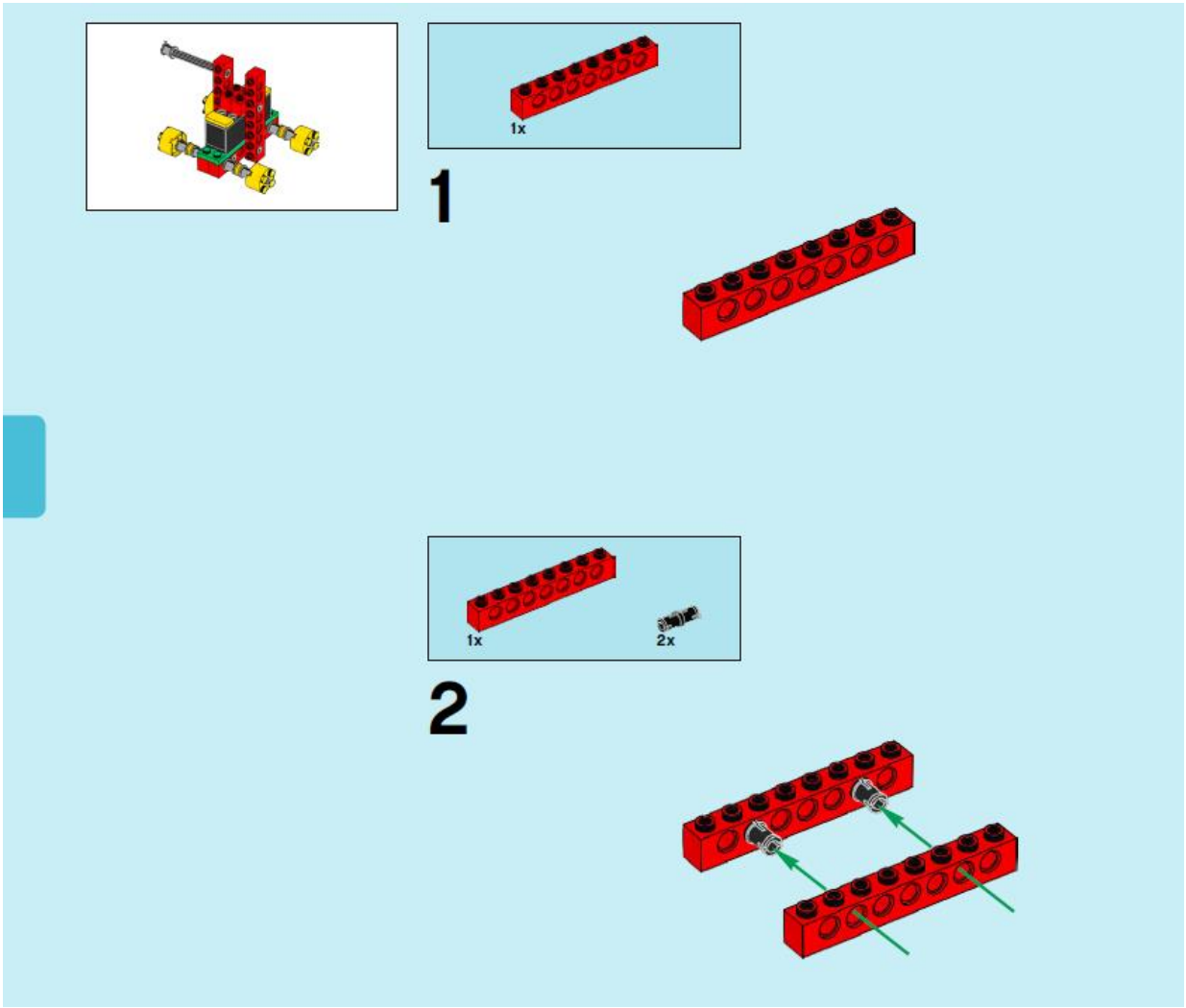
Simple machines

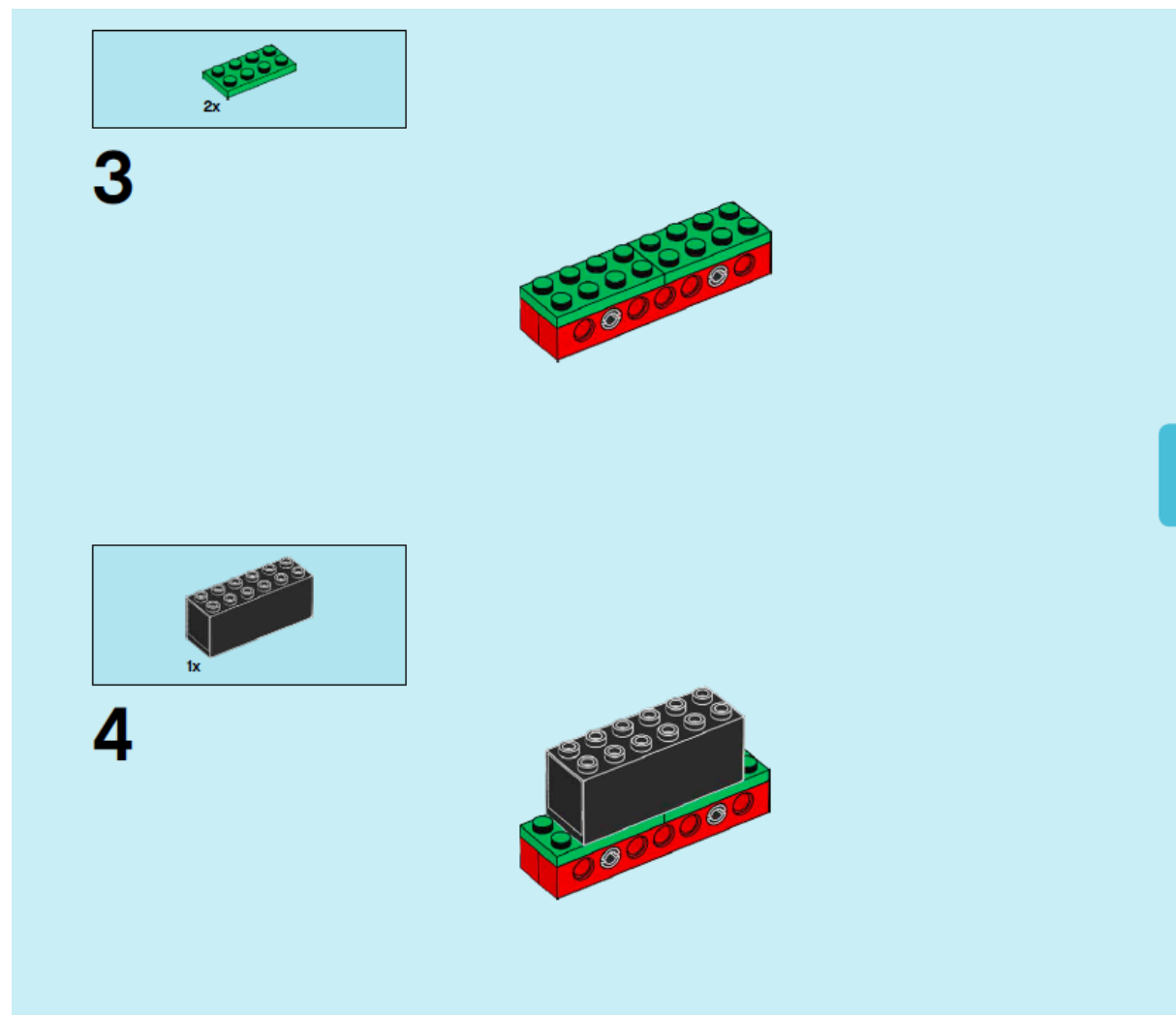
CATAPULT

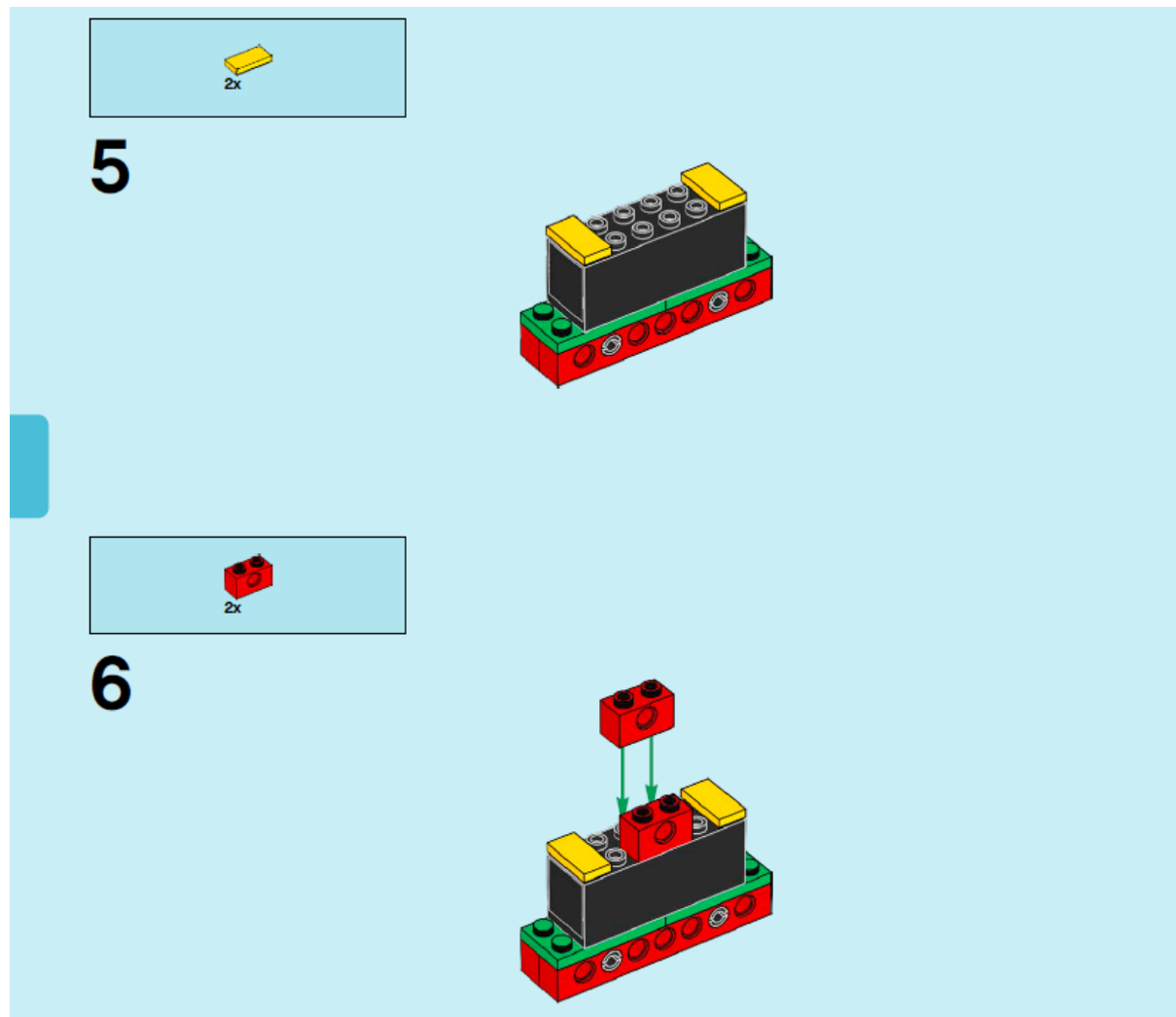


Те са били използвани в
Сиракуза, в древен Рим
и в средновековни
замъци.

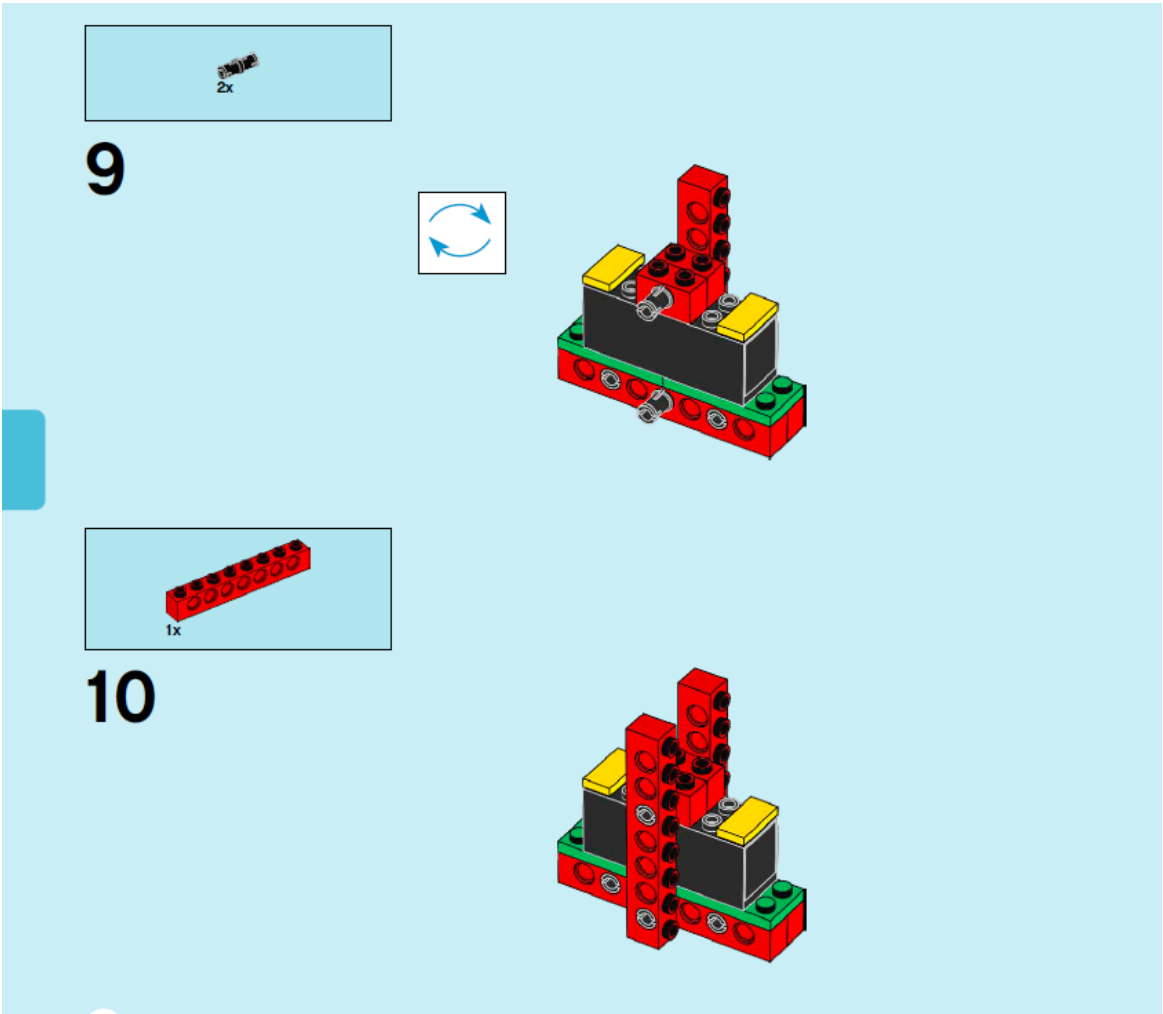


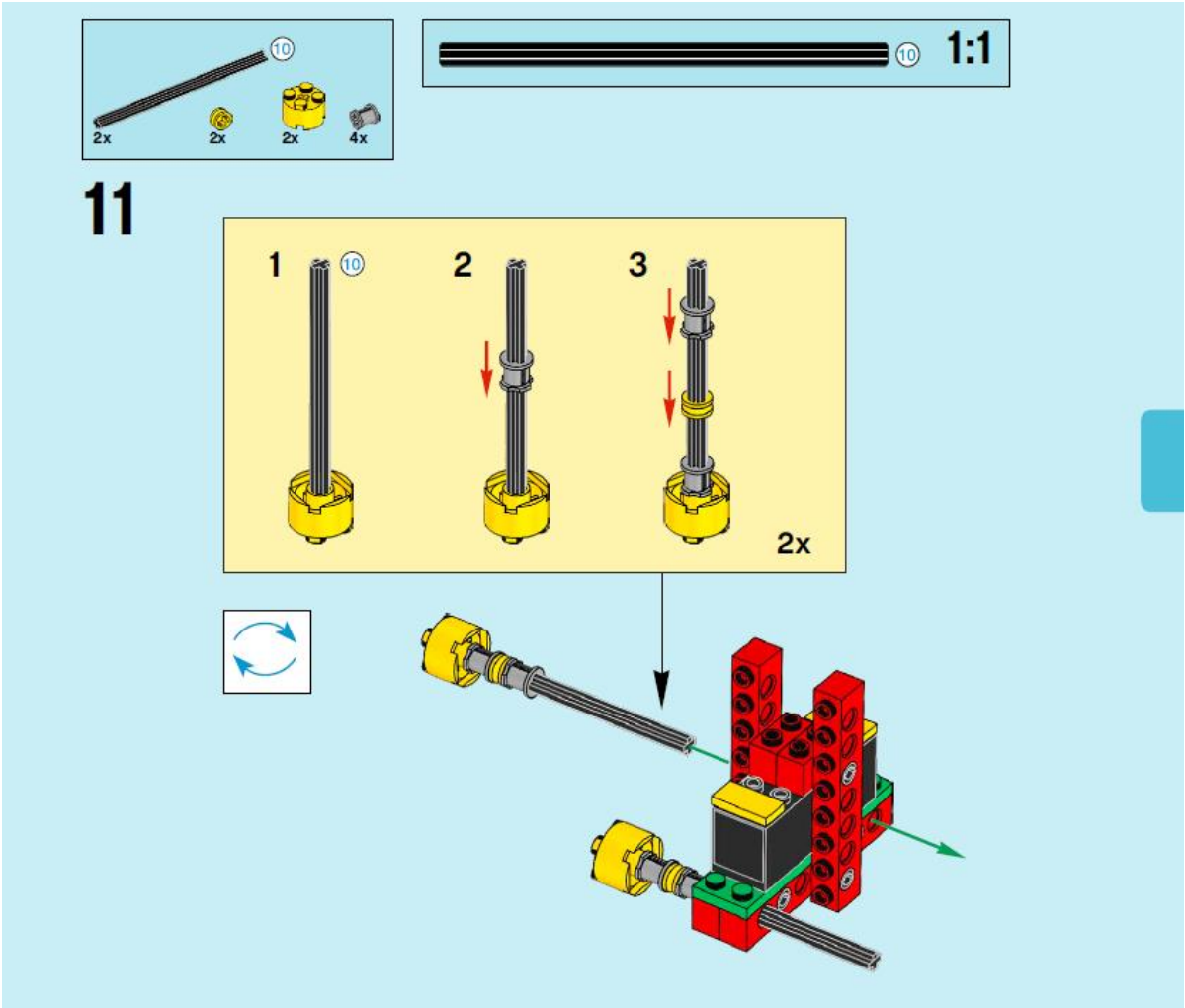


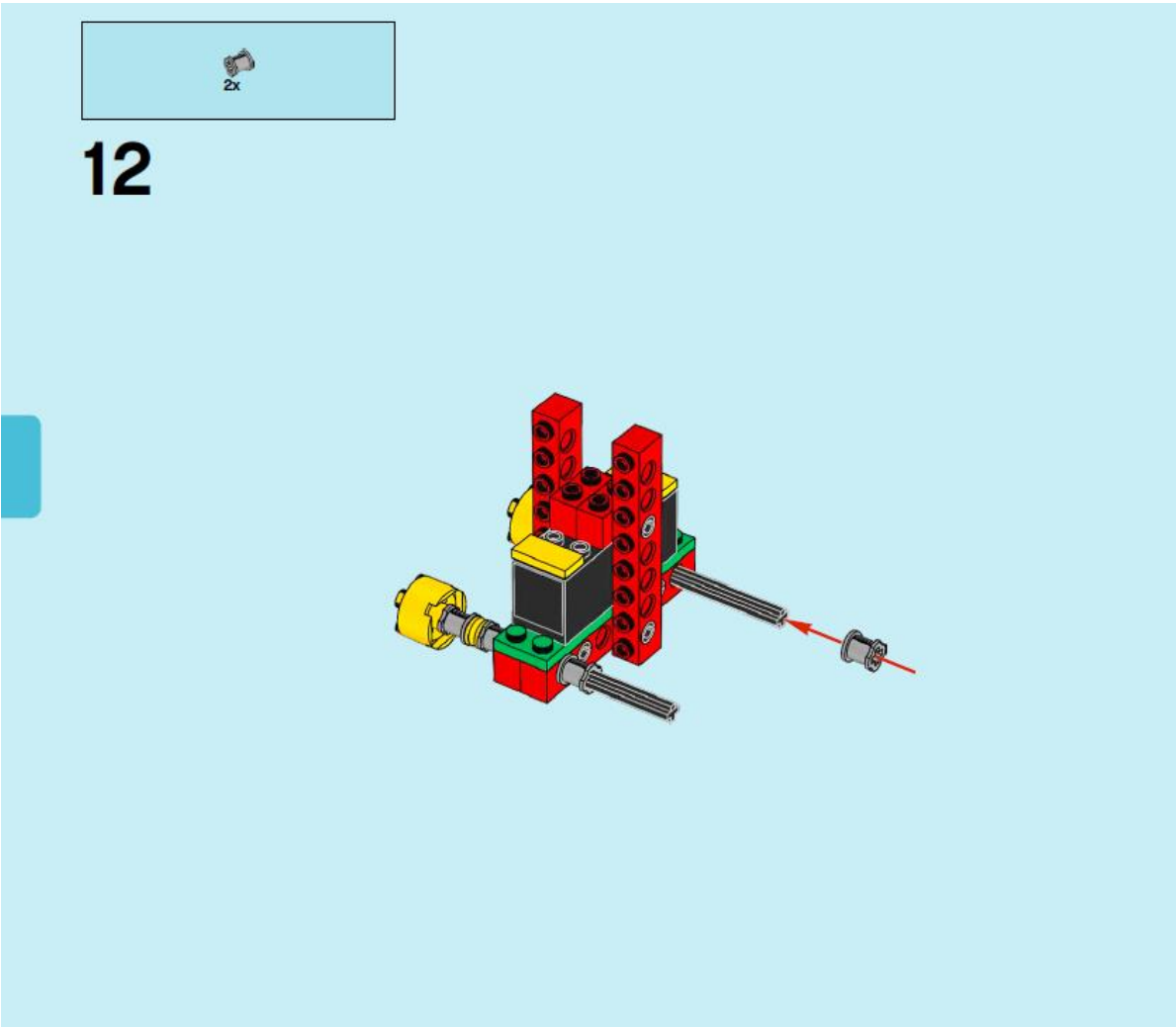


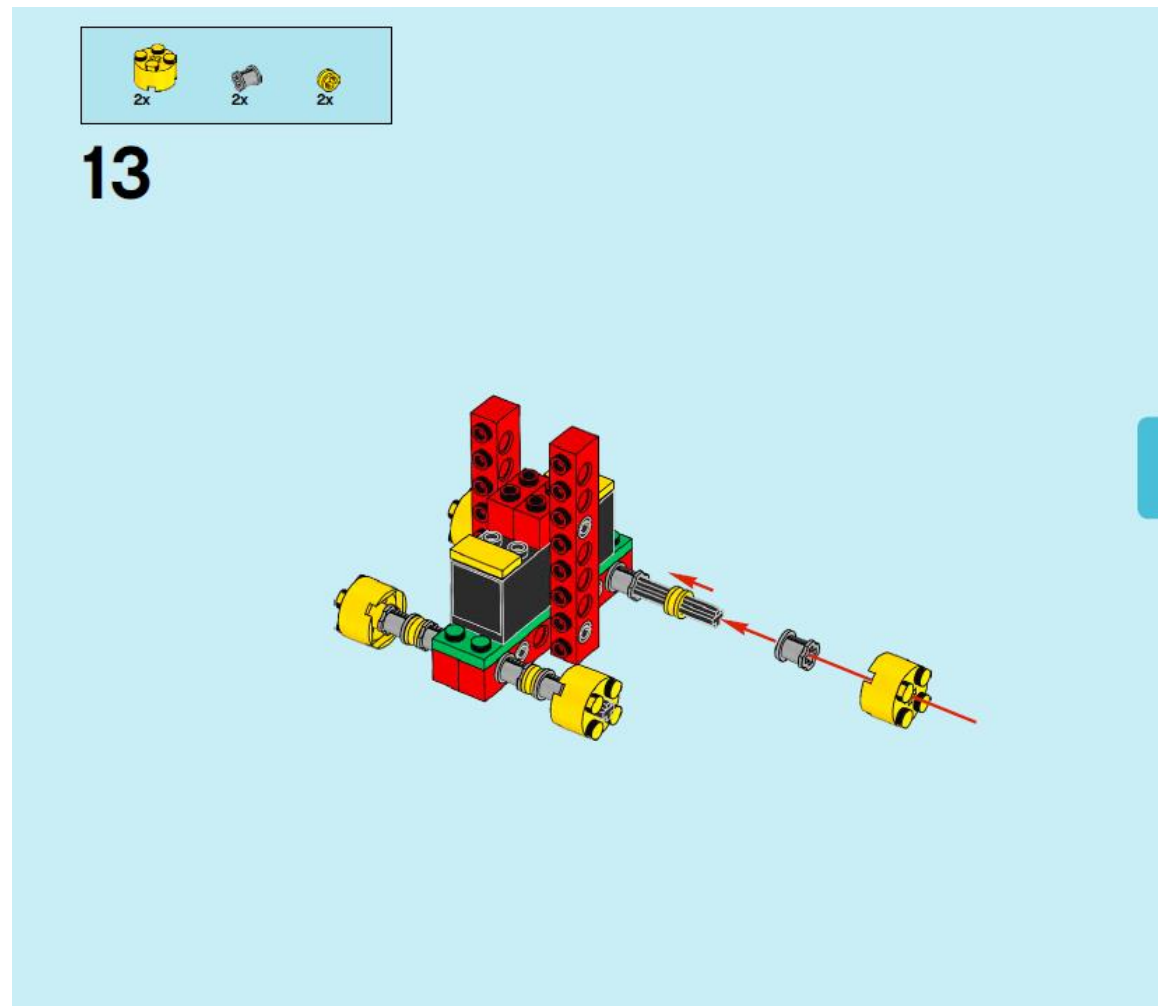


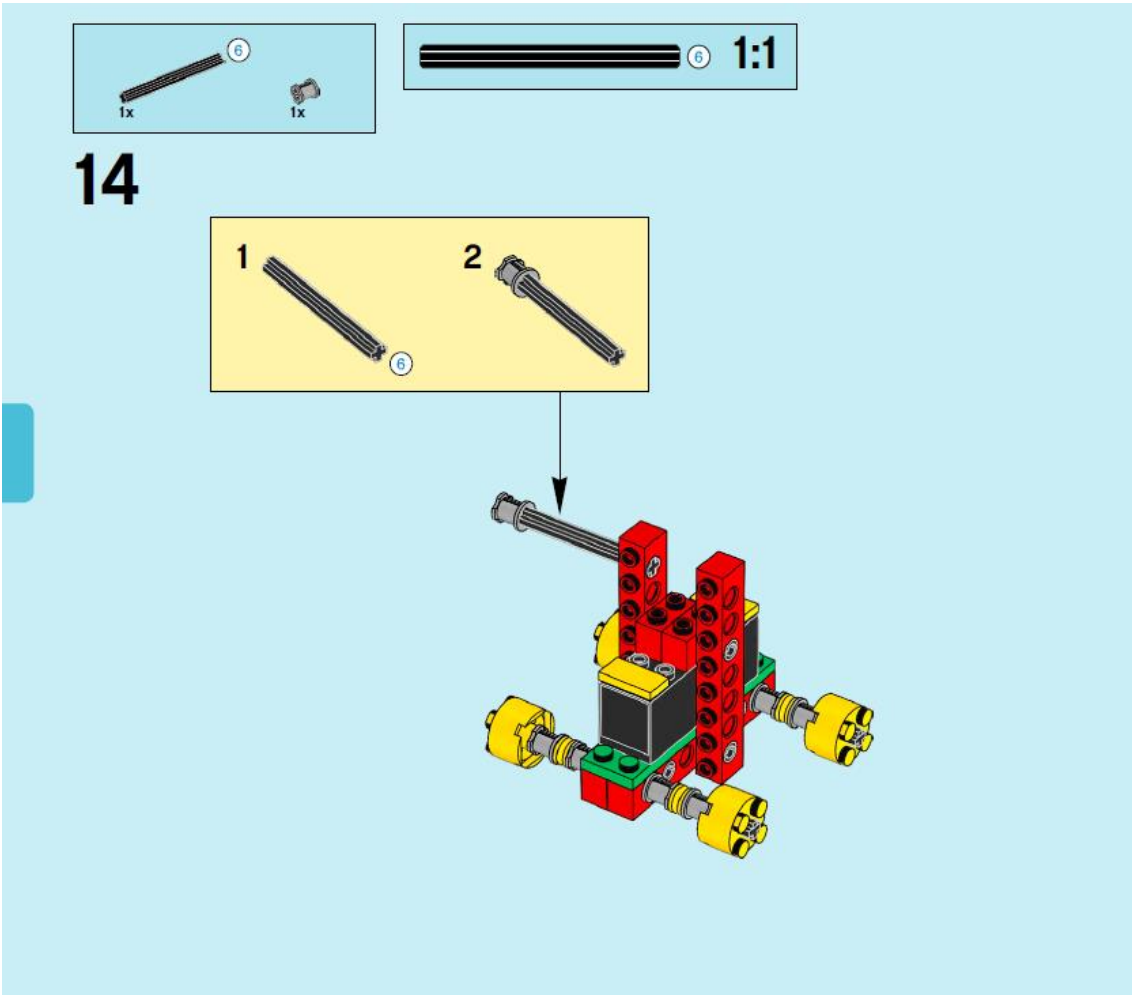


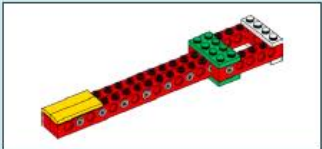


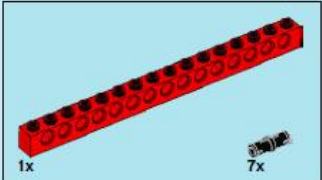


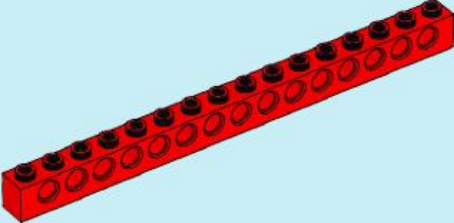
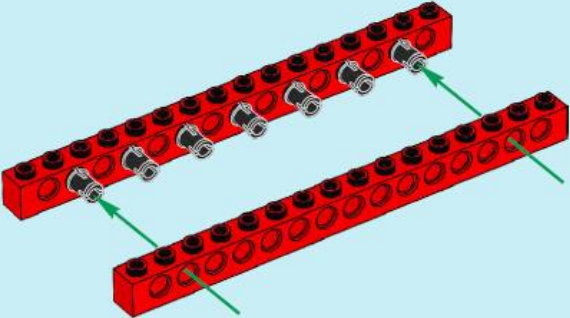


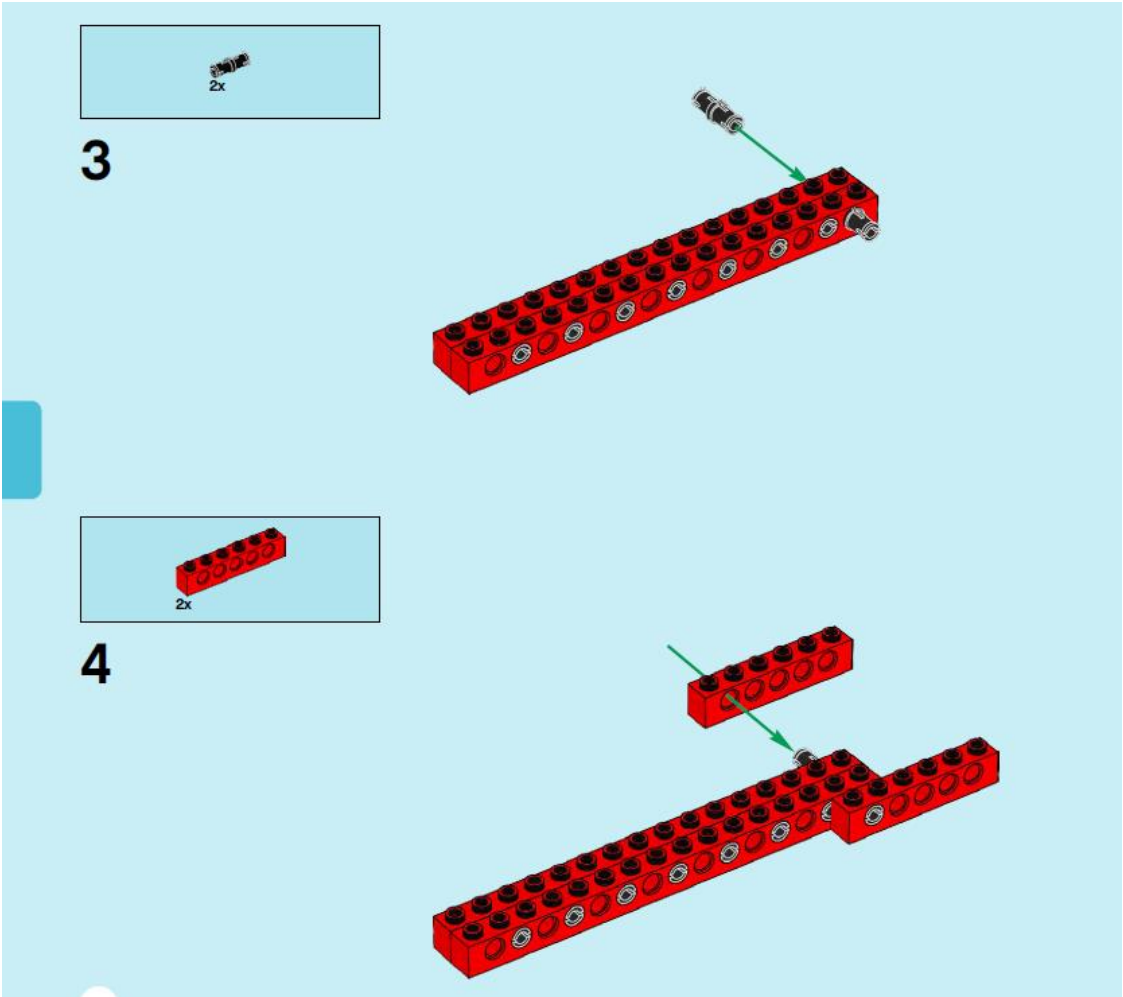


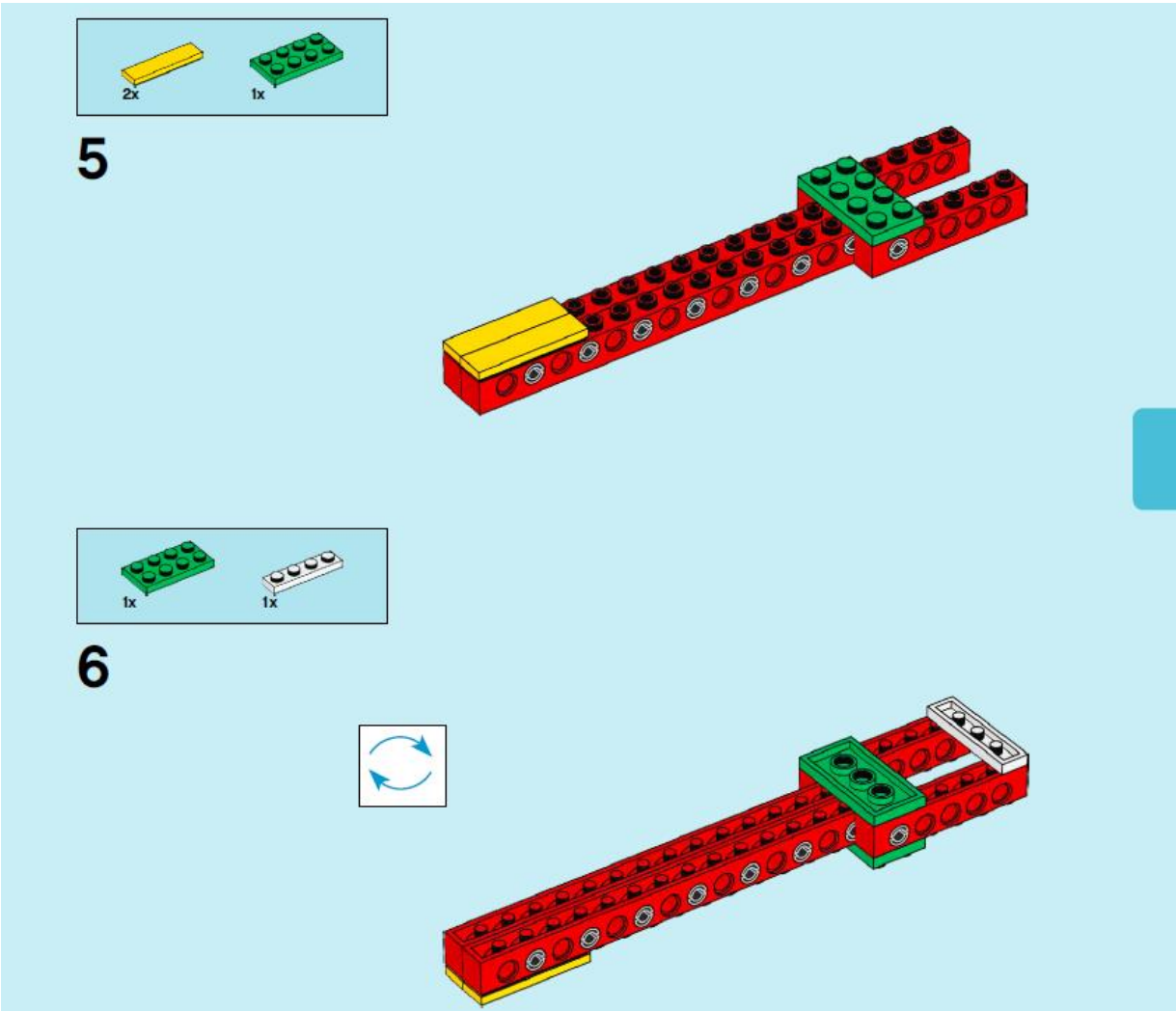


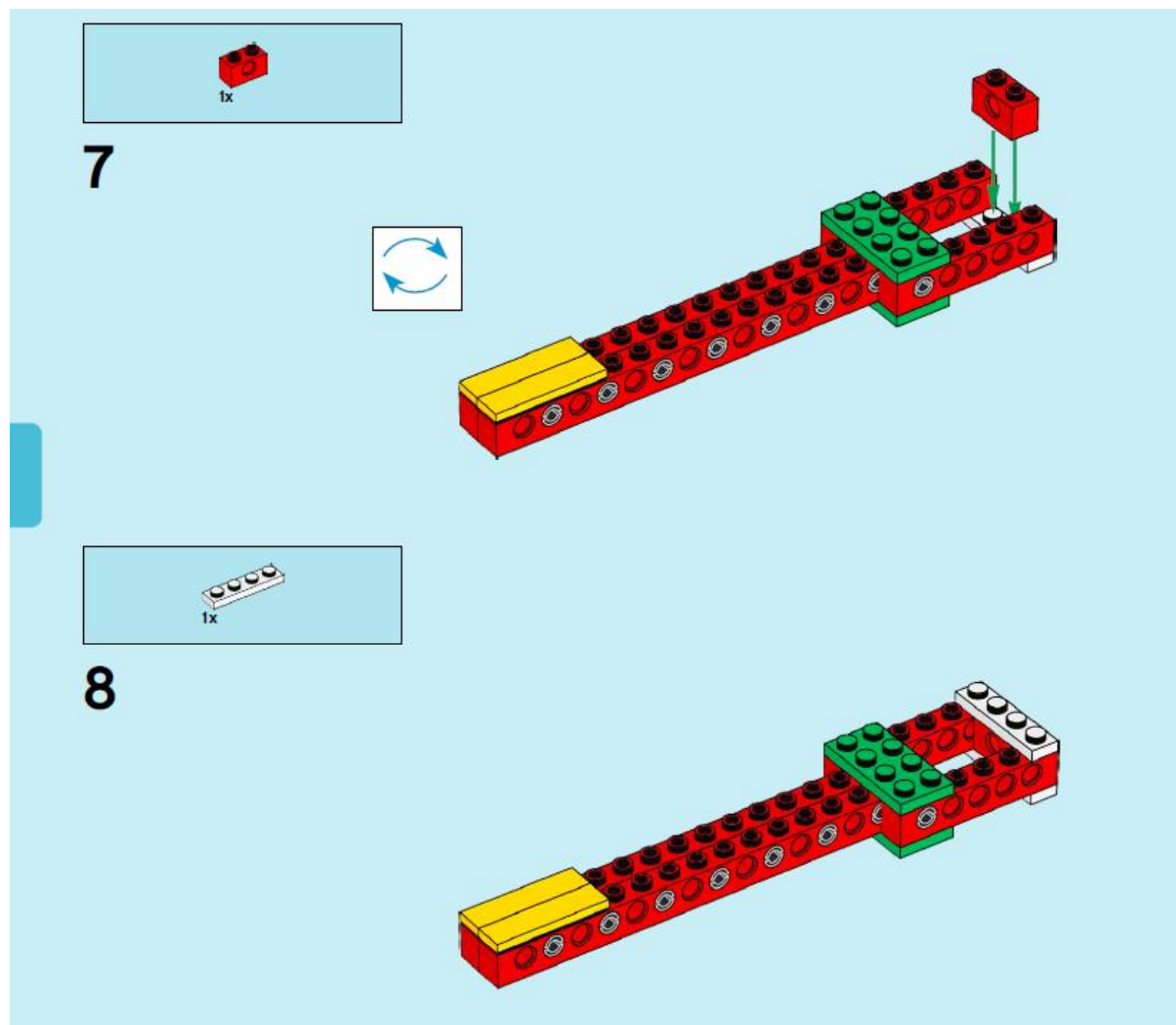

1

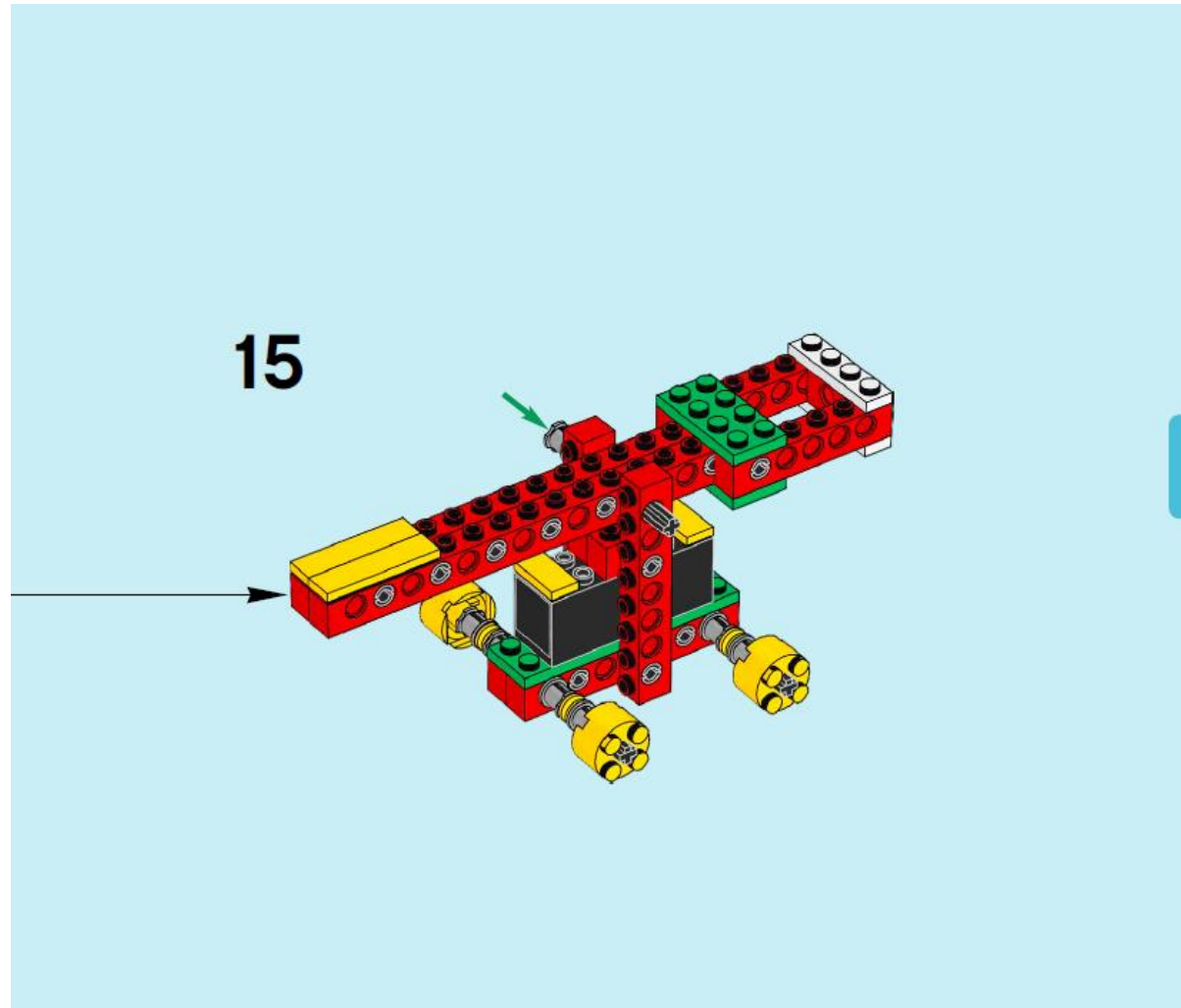
2


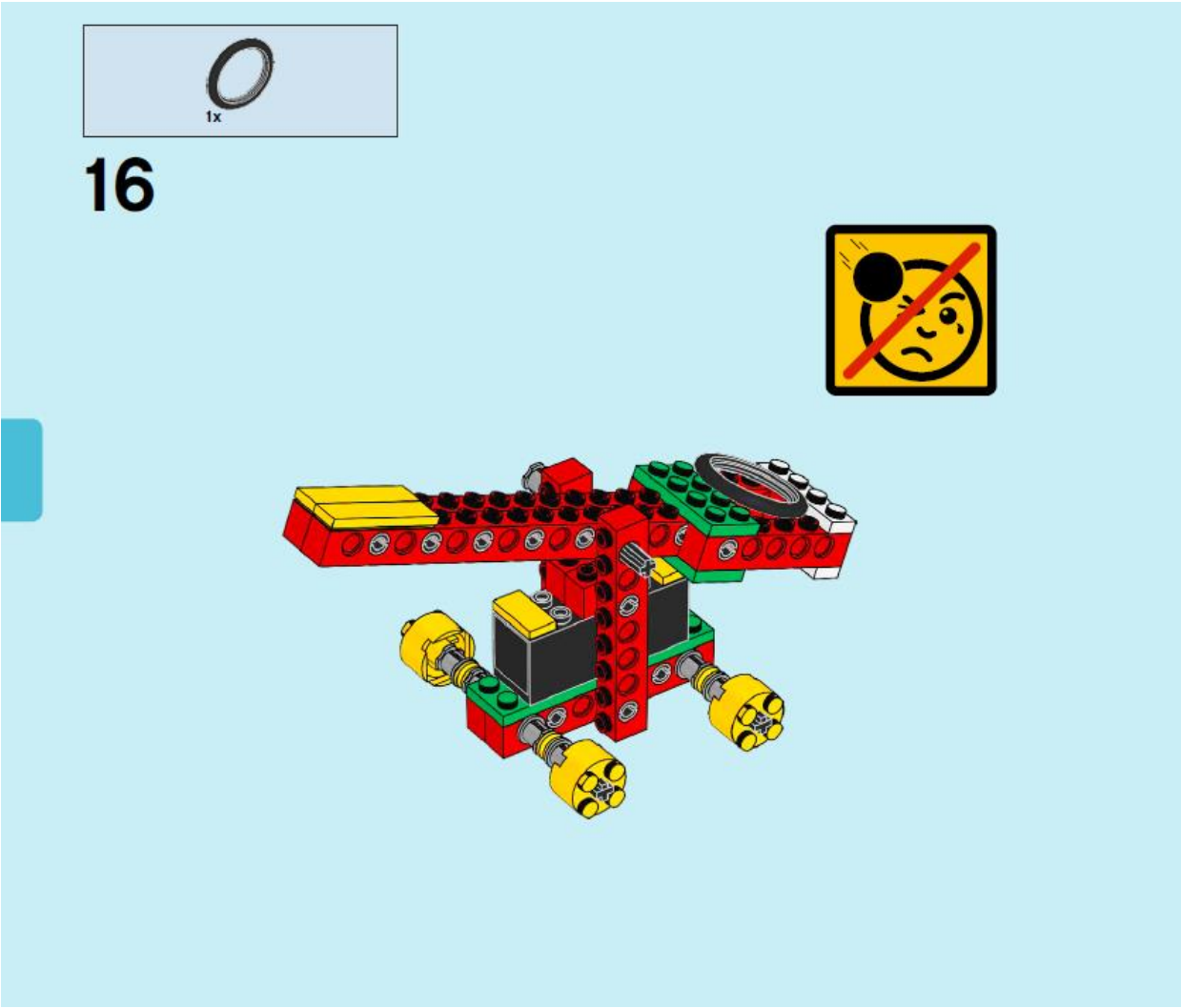













Модификация

