Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
KA220-SCH - Cooperation partnerships in school education



Simple machines

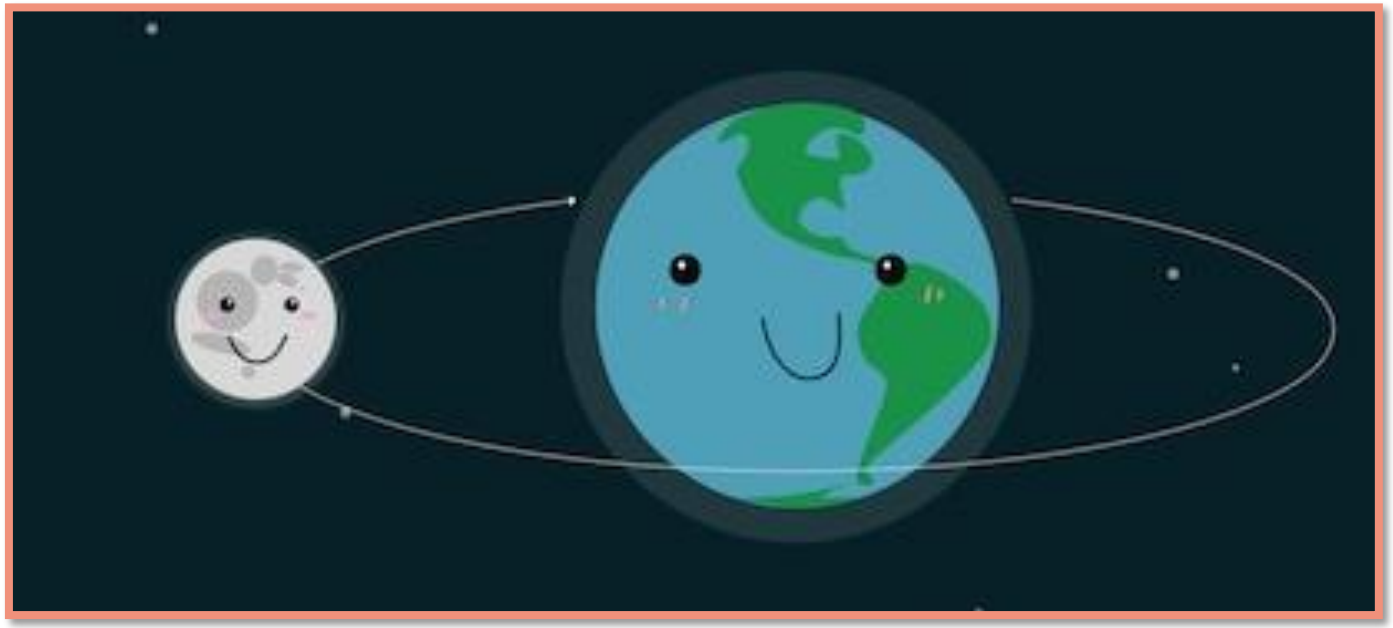


What is a natural satellite?



A natural satellite or **moon** is every natural celestial object that rotates (in an orbit) around a planet or another celestial object.

The natural satellite or the moon of Earth is The Moon (or Luna)!



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

What is an artificial satellite?

An artificial satellite is a construction, made by humans, that has been put in orbit around the Earth (or some other celestial object)!





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

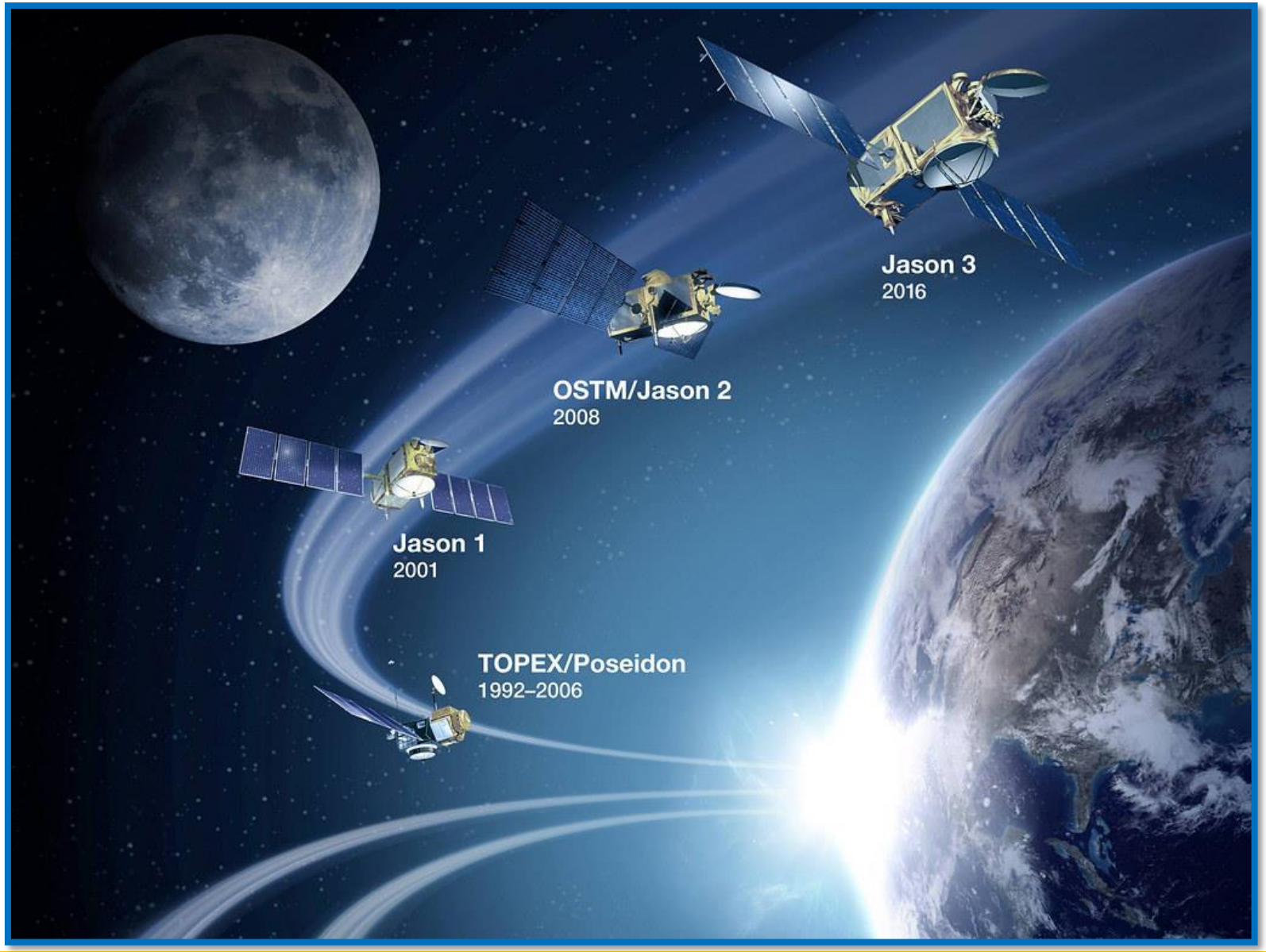
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

Simple machines

SATELLITE DISH

On the 4 of October 1957 the first artificial satellite of the Earth was launched, the Soviet Sputnik 1.
This day is marked the beginning of the Space Age. Soon afterwards, the American Explorer 1 followed.





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

SATELLITE DISH

Artificial satellites send messages to the Earth to help us find our way (GPS), to inform us about the weather, to let us see a tv channel, etc.



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

SATELLITE DISH

In the Earth, we can receive the messages sent from the artificial satellites, using the satellite dishes that rotate!



Transmitter





Receiver

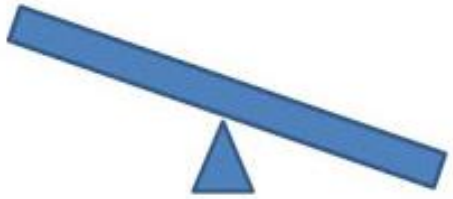
Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

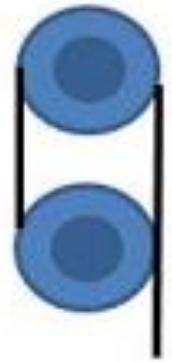
SATELLITE DISH

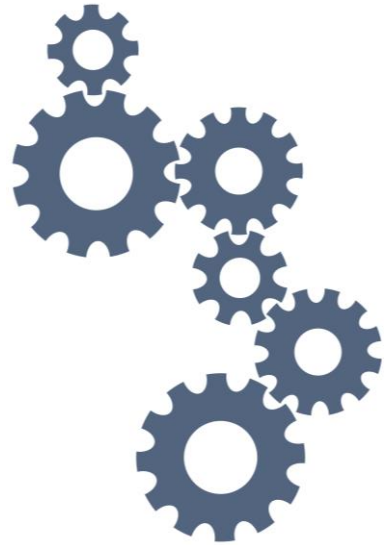
Can you make a satellite dish that rotates?



Which simple machine can you use to make the satellite dish rotate?



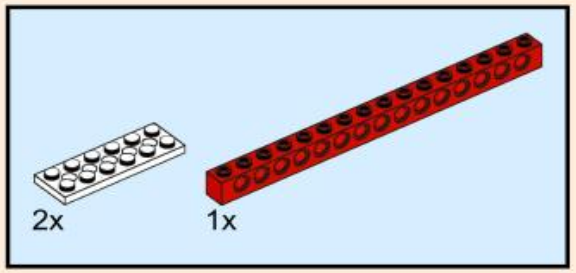


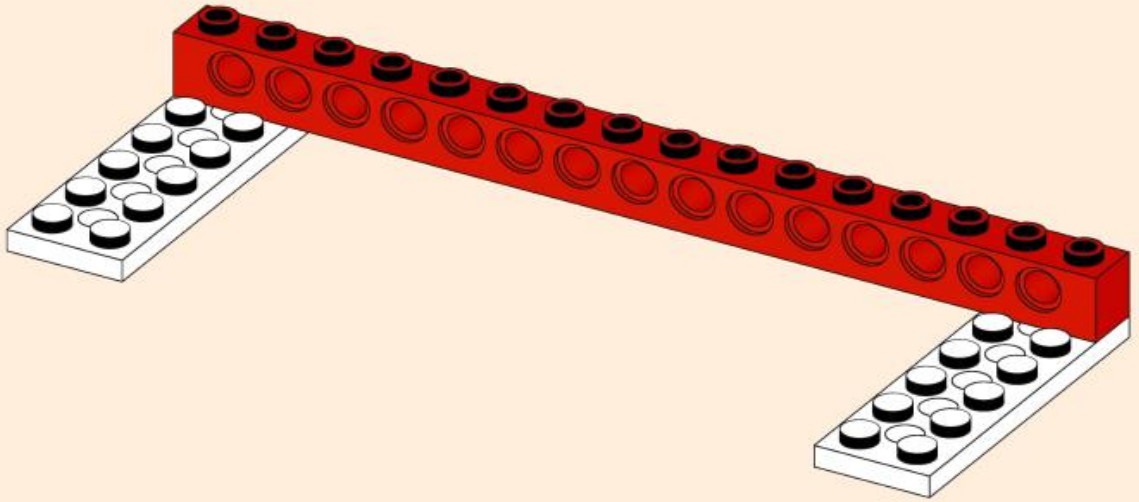


Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

SATELLITE DISH

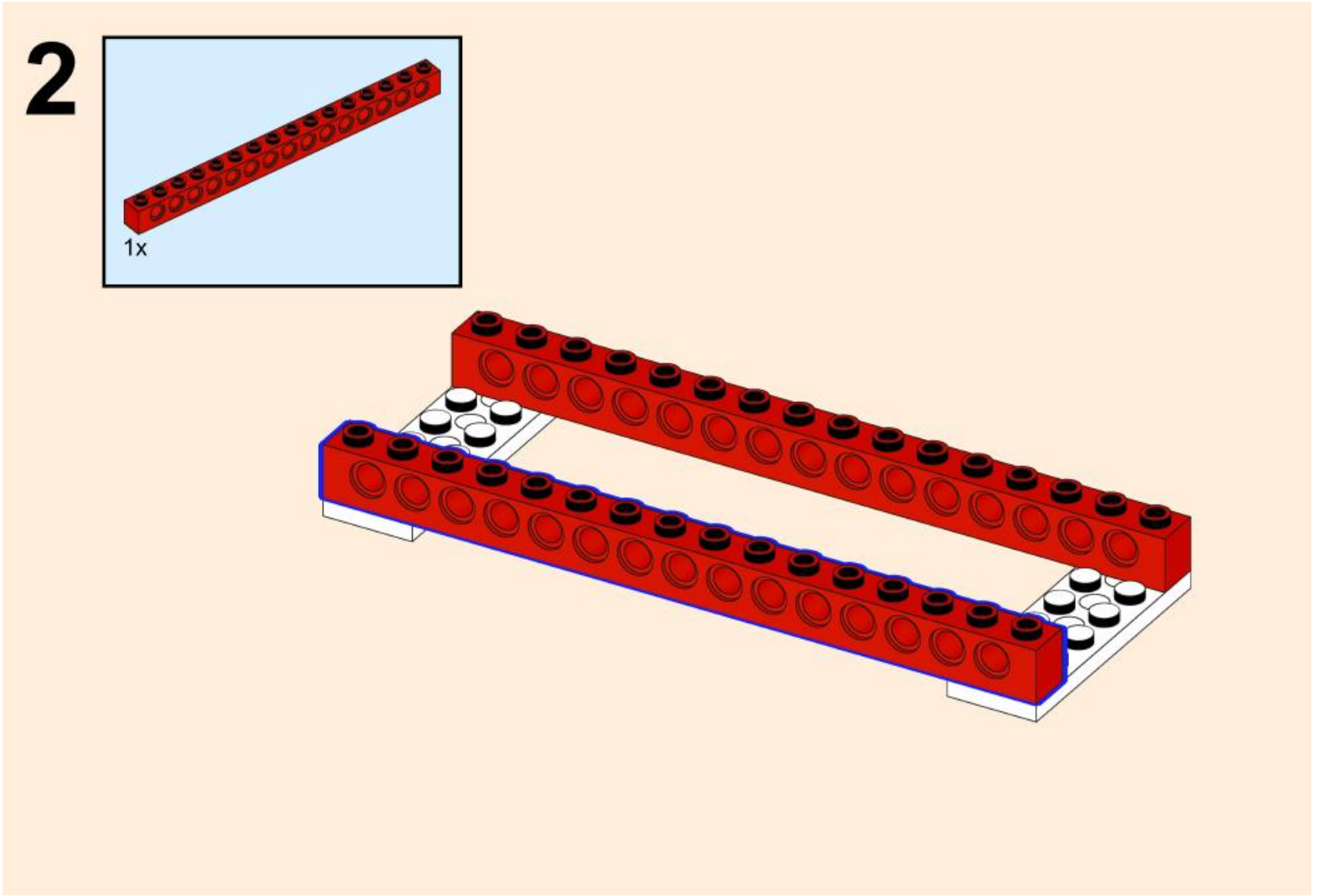
1





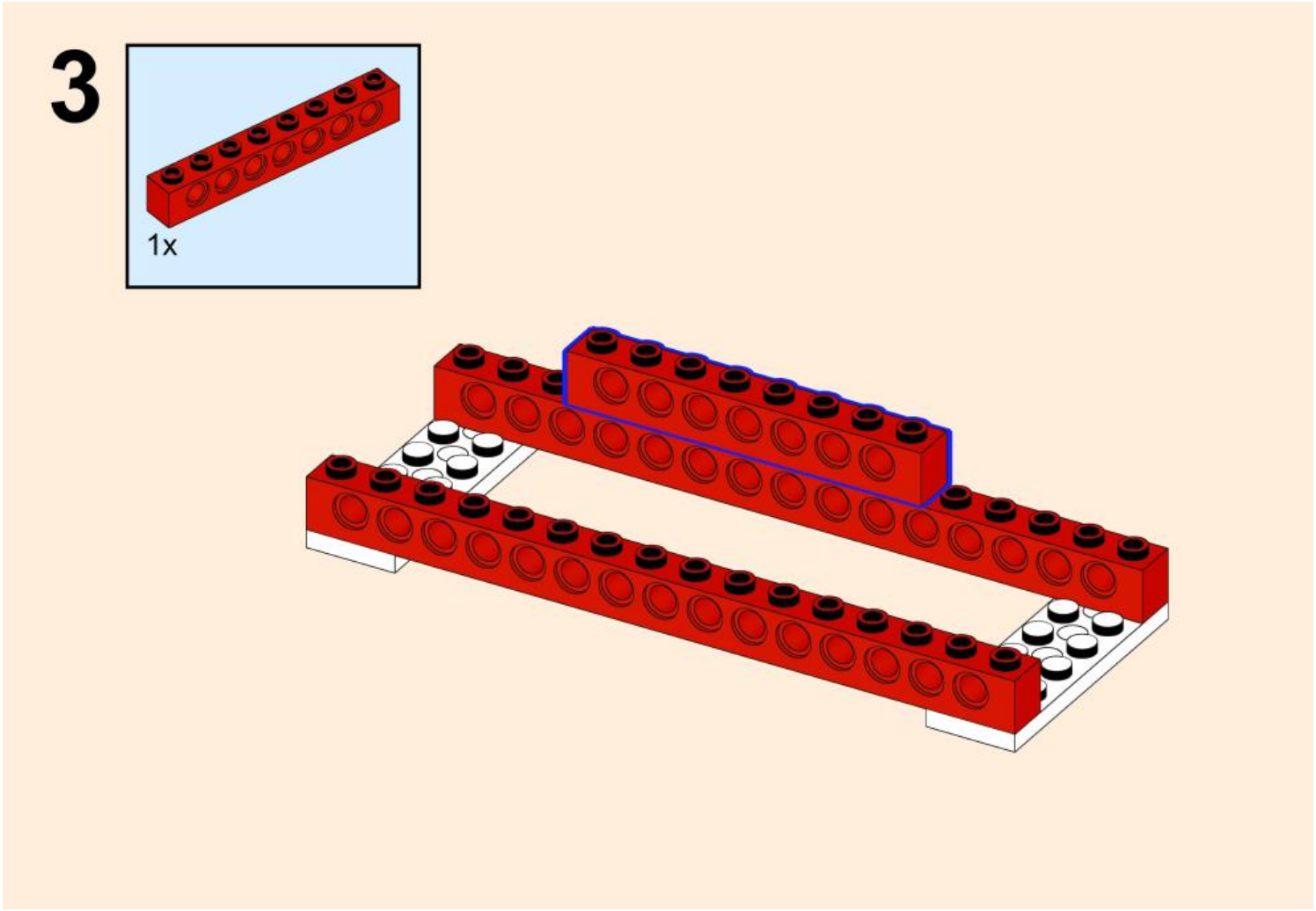
Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

SATELLITE DISH



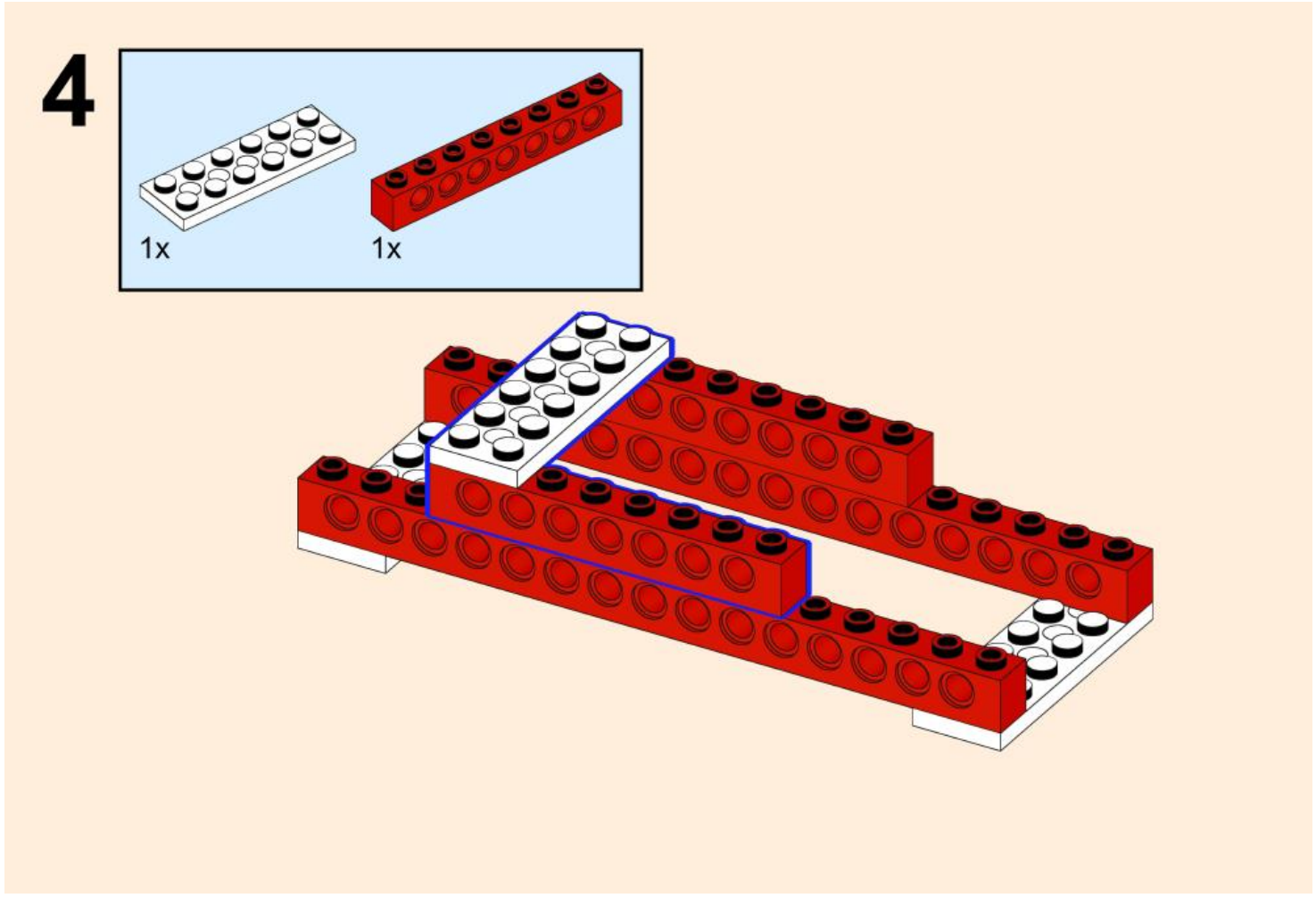
Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

SATELLITE DISH



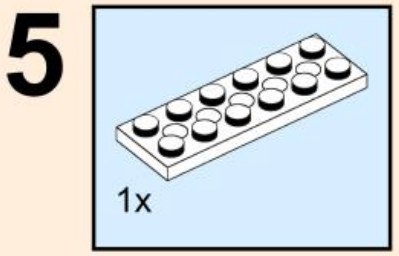
Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

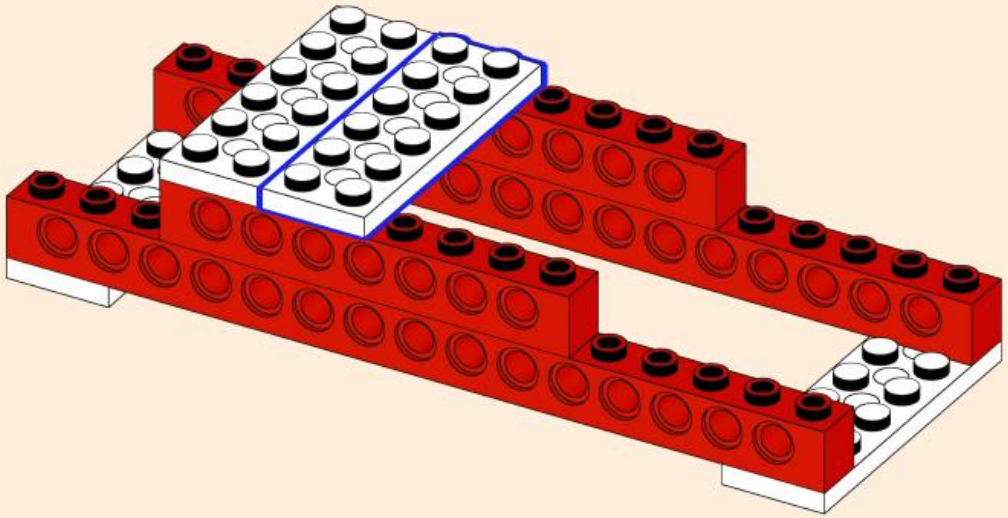
SATELLITE DISH



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

SATELLITE DISH

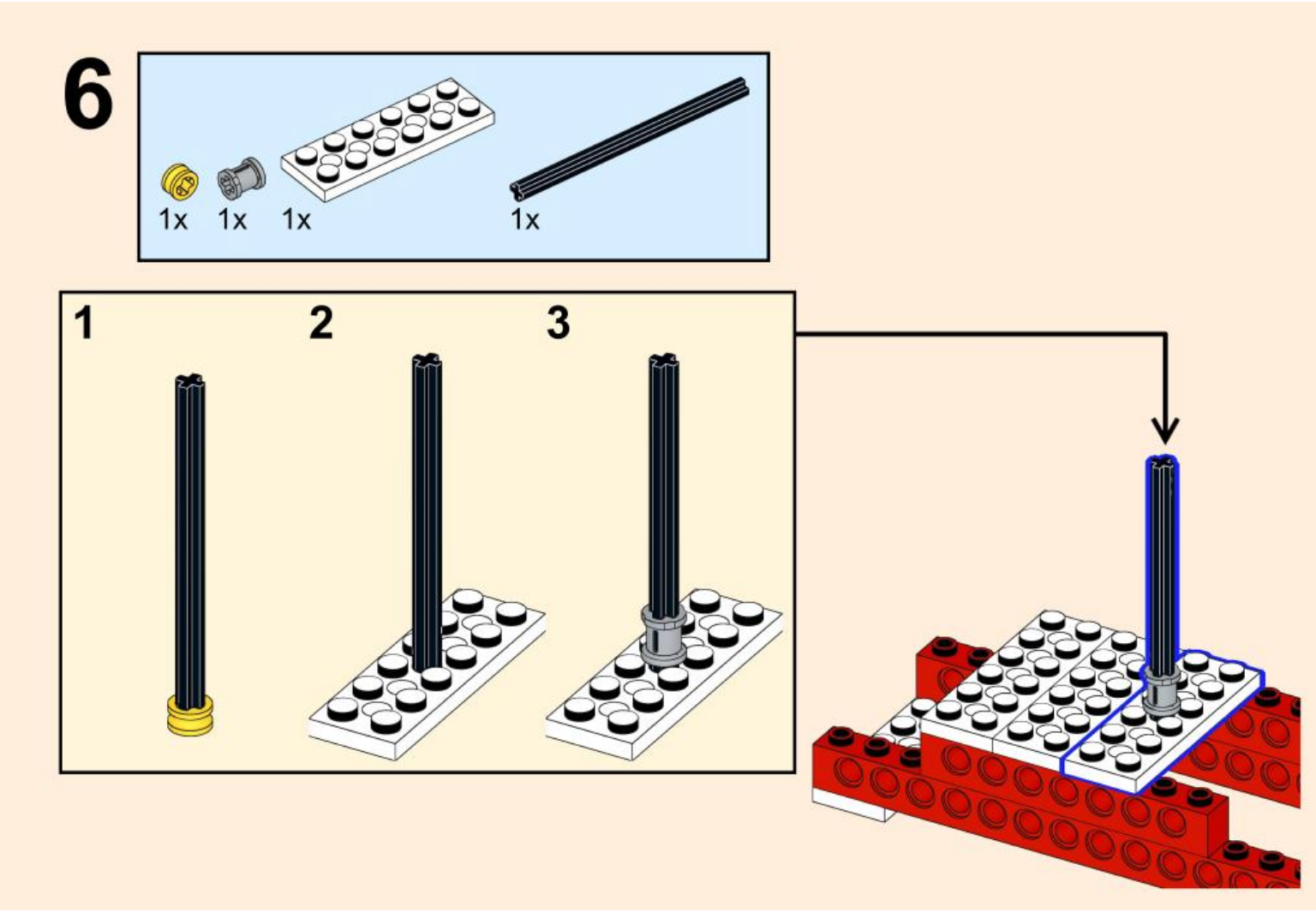




Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

Simple machines

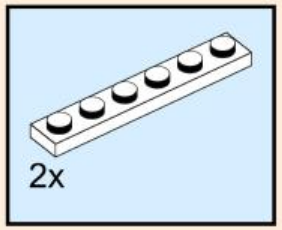
SATELLITE DISH

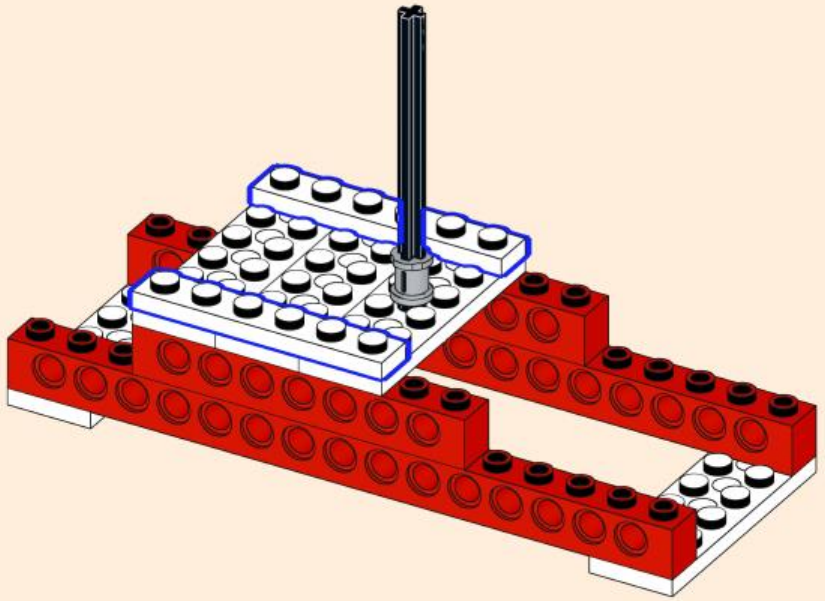


Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

SATELLITE DISH

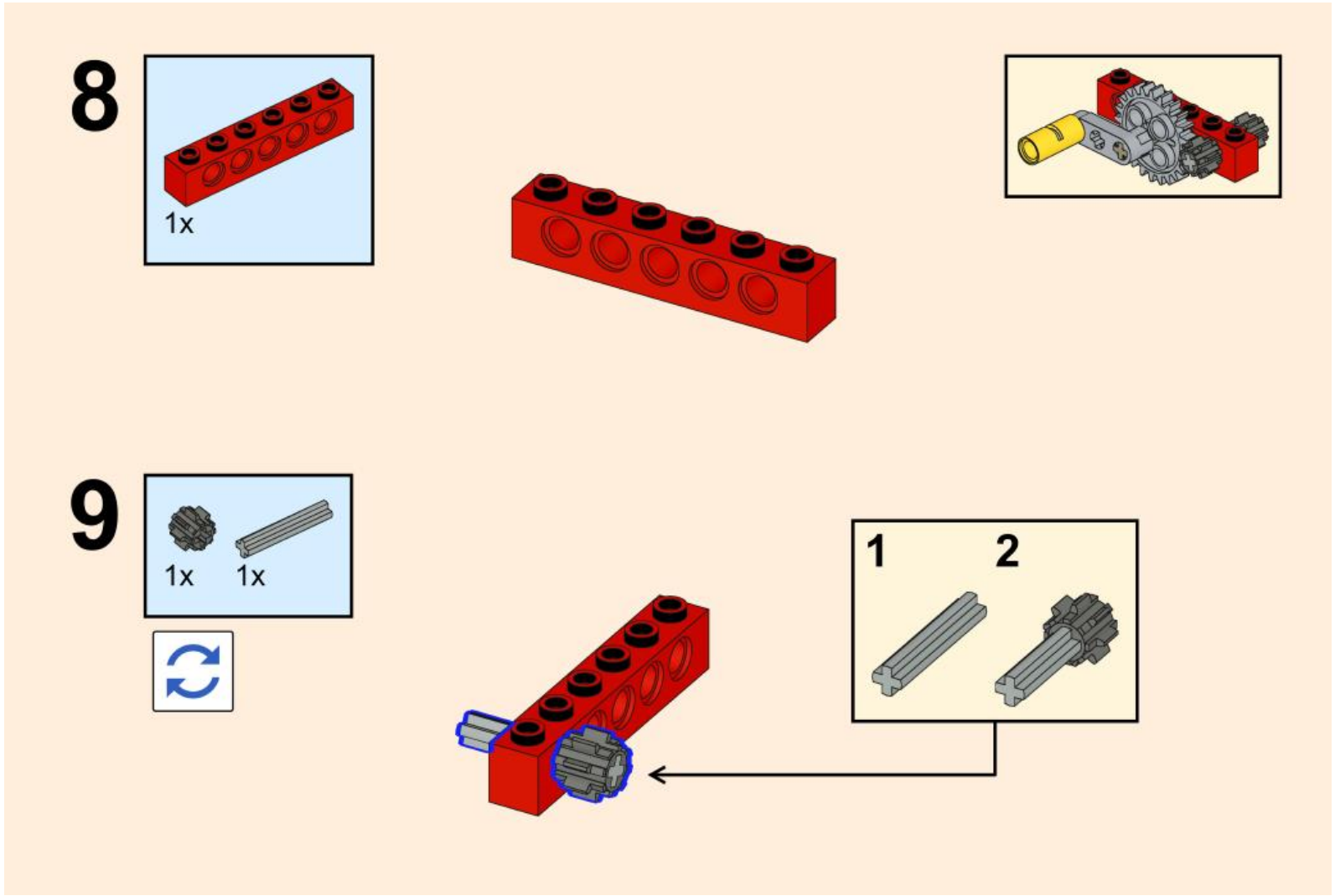
7





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

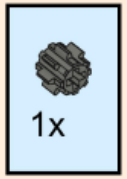
SATELLITE DISH



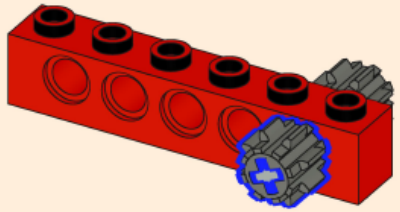
Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

SATELLITE DISH

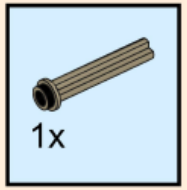
10

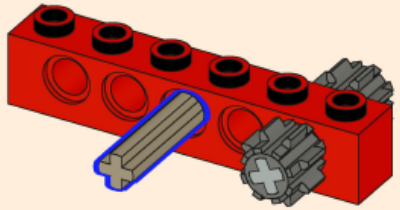






11

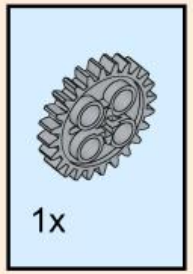


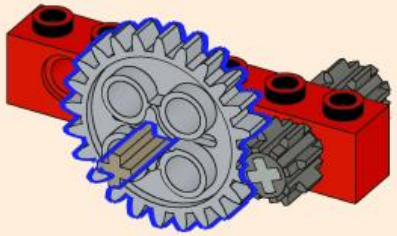


Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

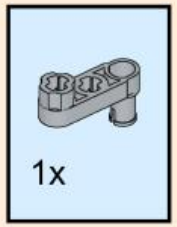
SATELLITE DISH

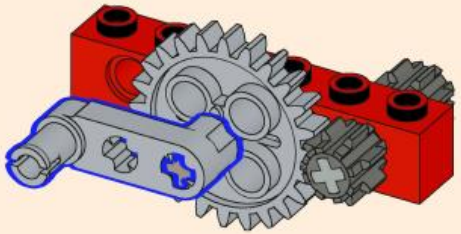
12





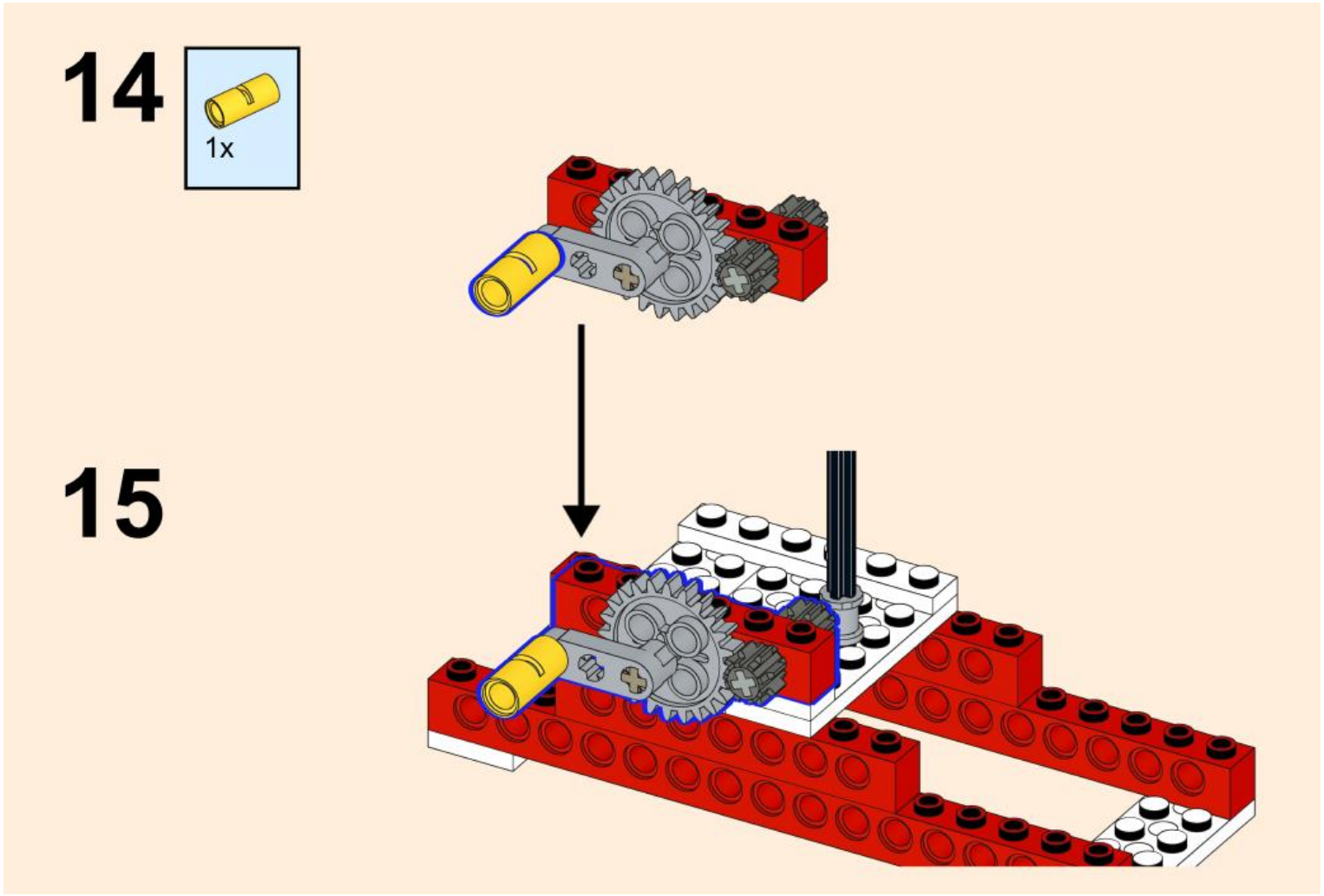
13





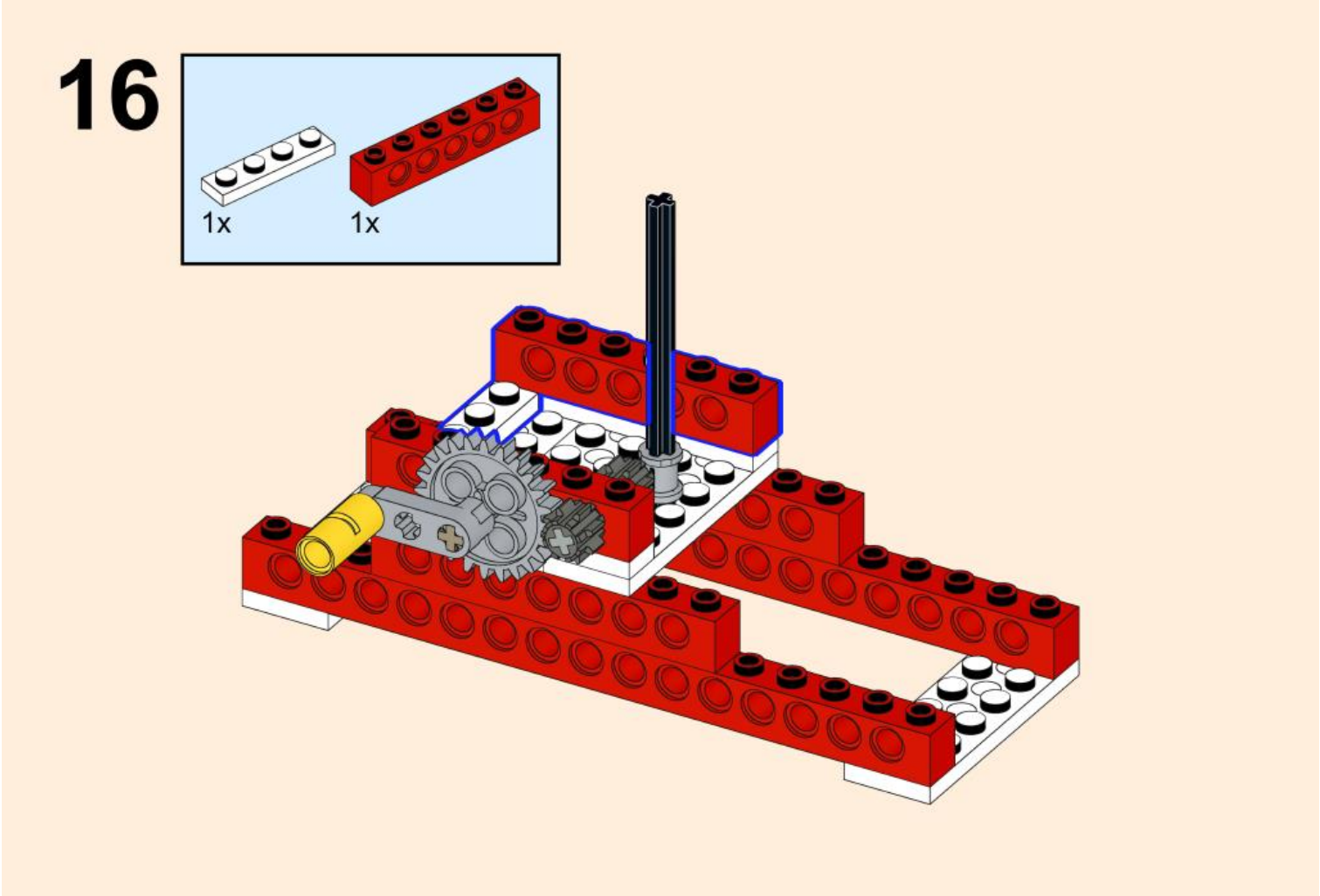
Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

SATELLITE DISH



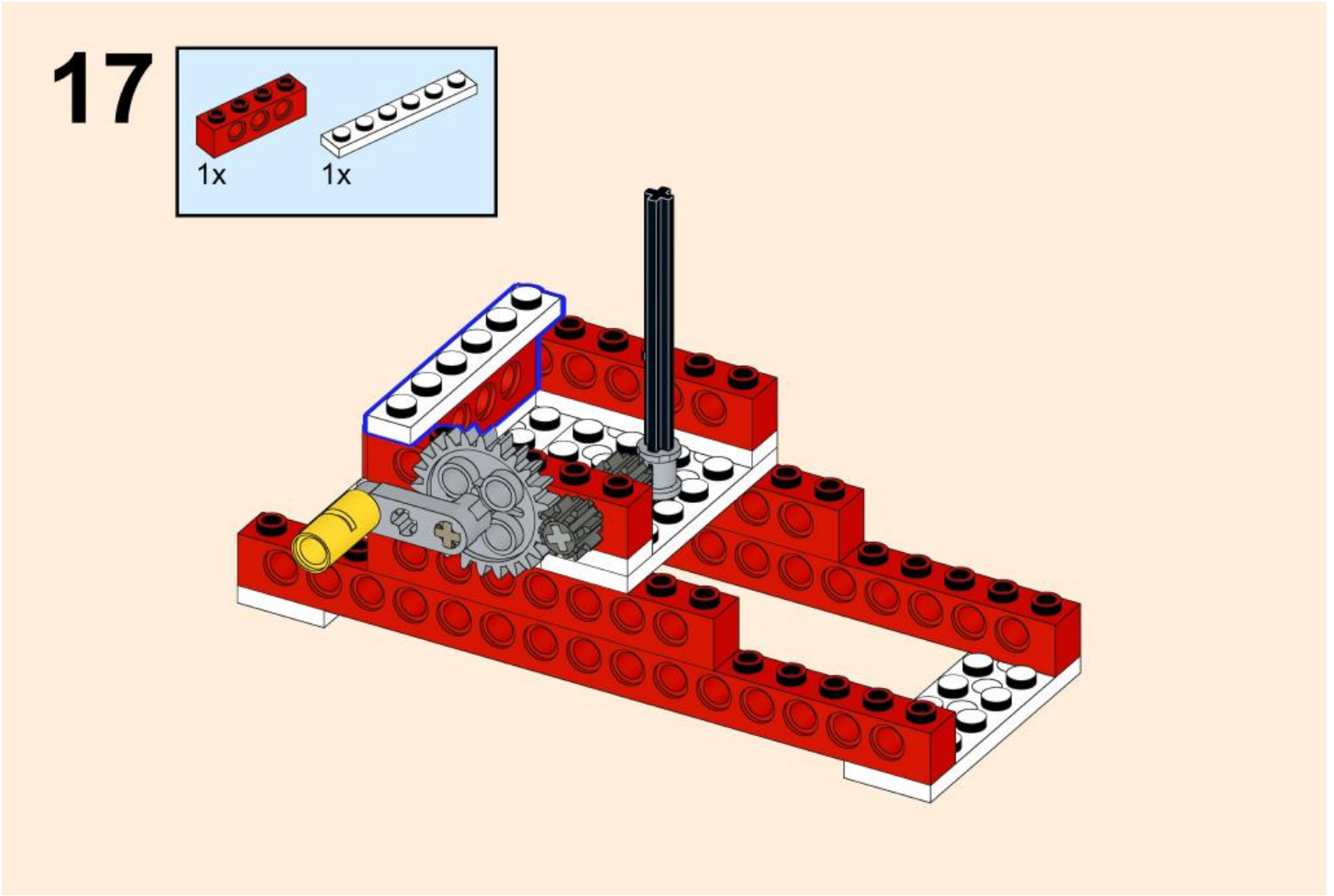
Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

SATELLITE DISH



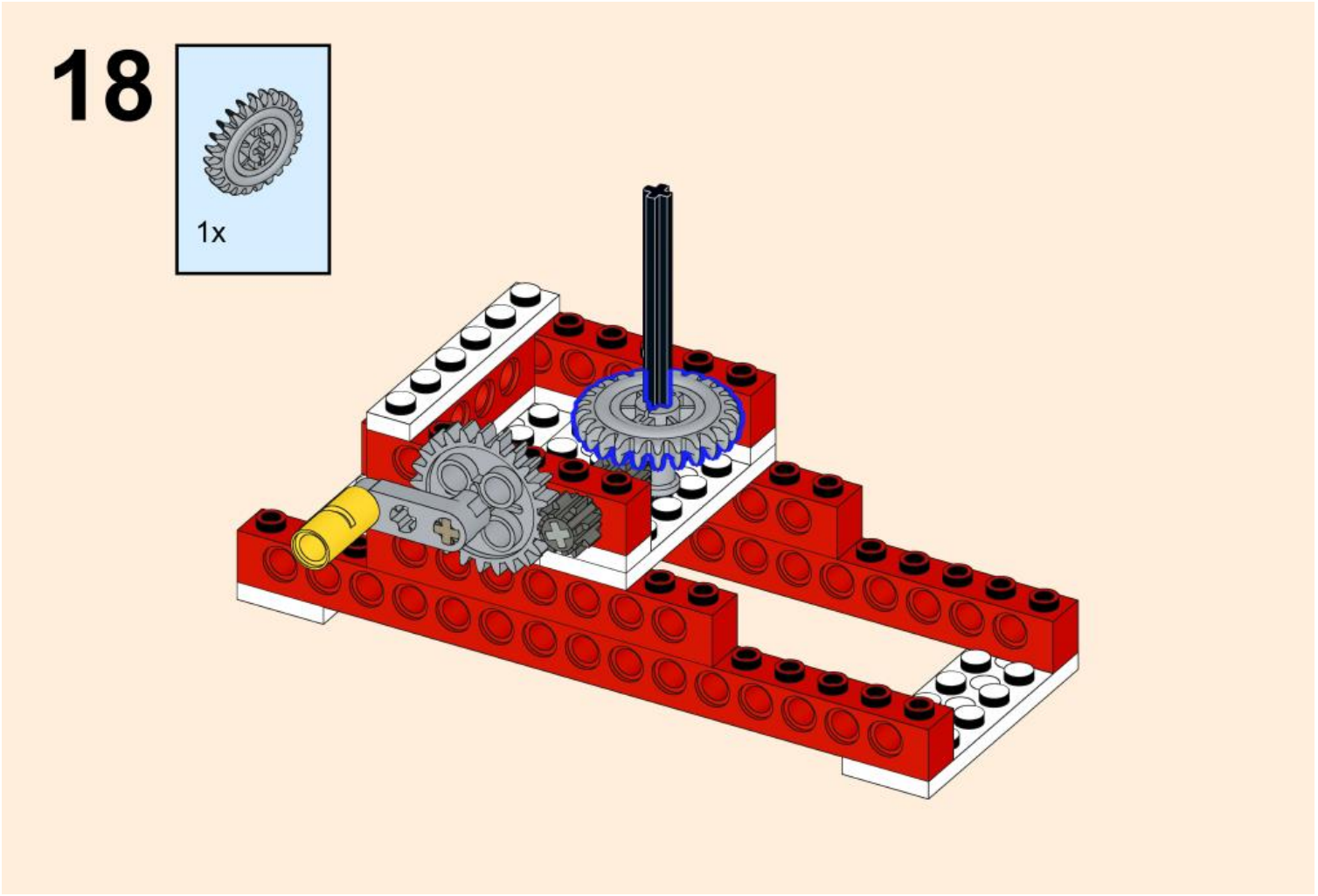
Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

SATELLITE DISH



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

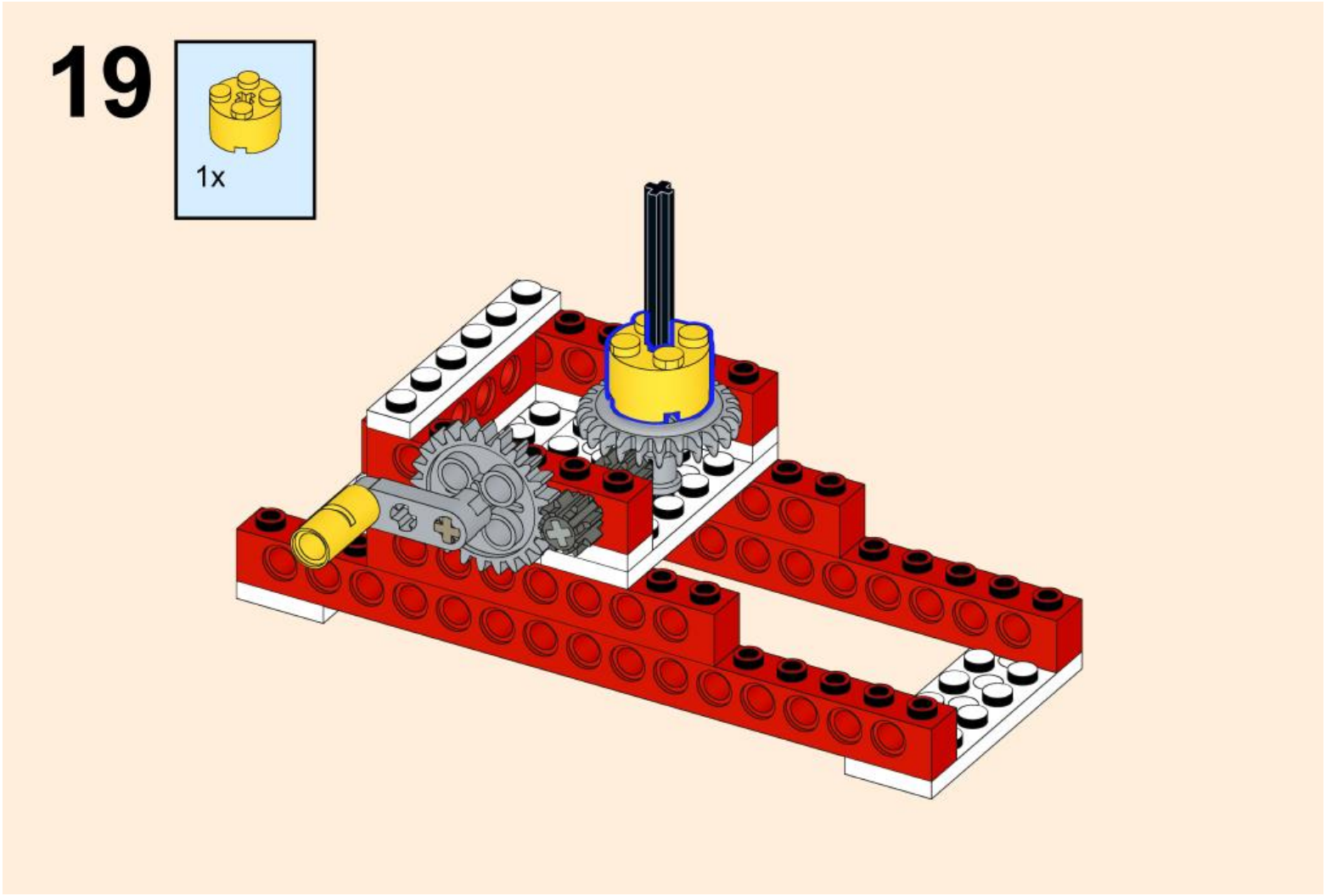
SATELLITE DISH



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

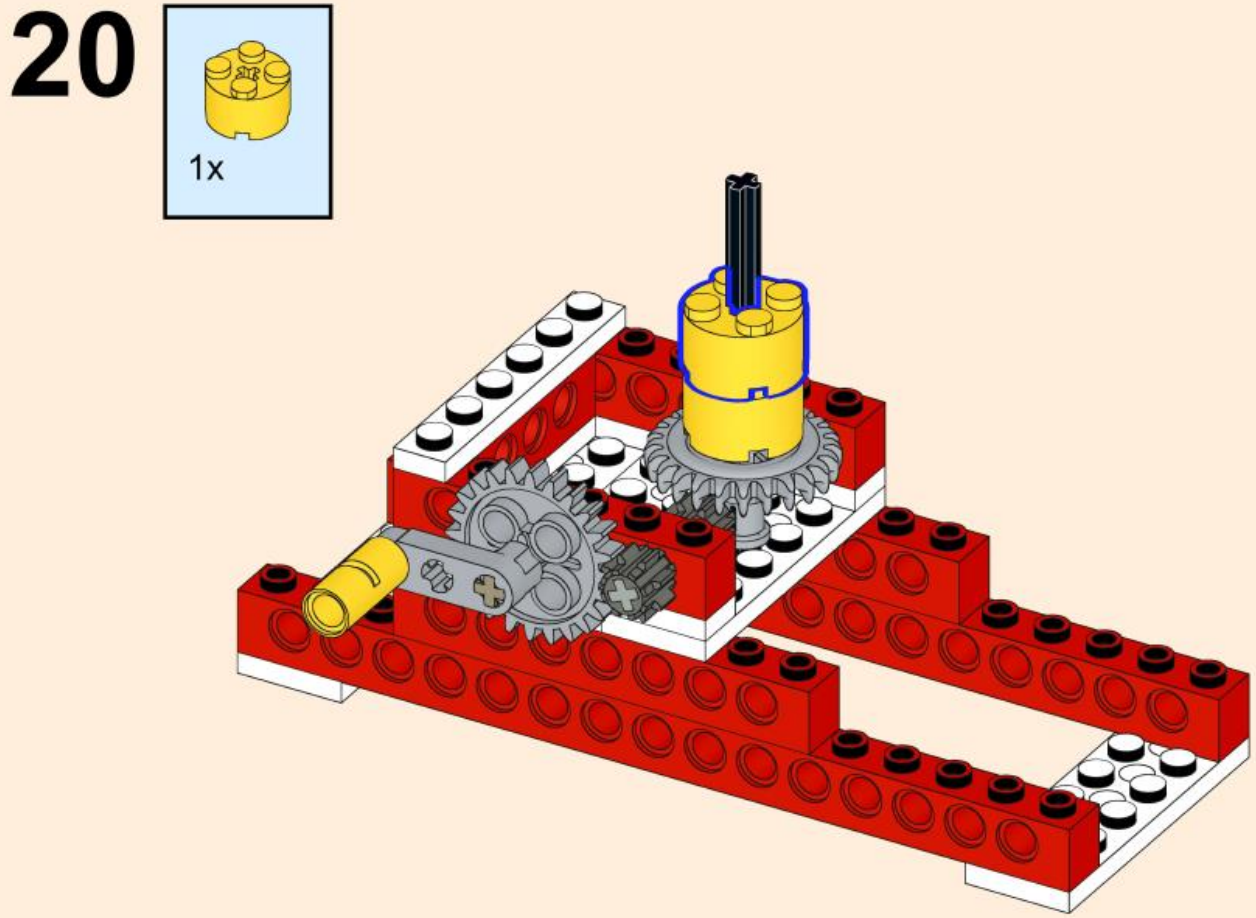
Simple machines

SATELLITE DISH



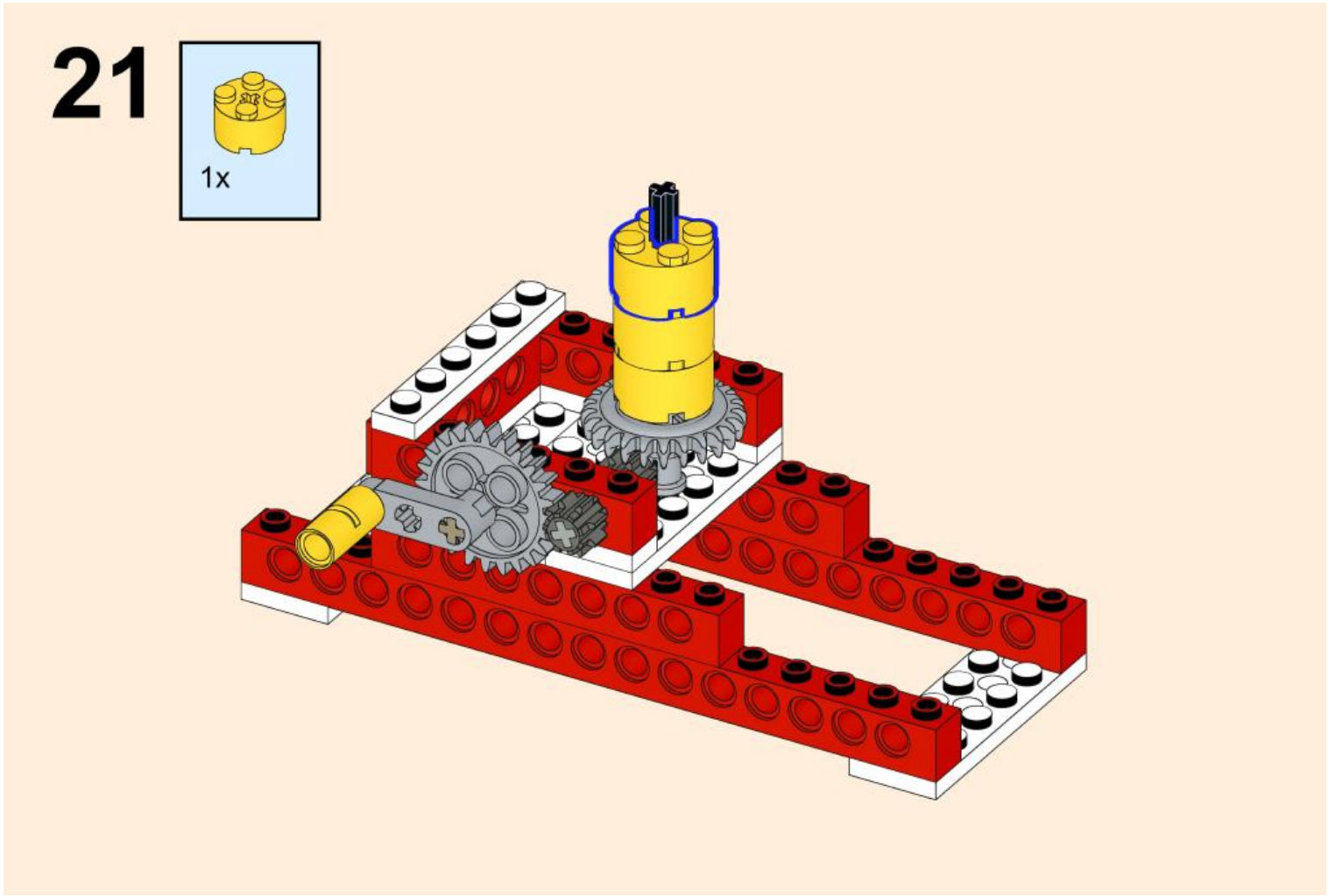
Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

SATELLITE DISH



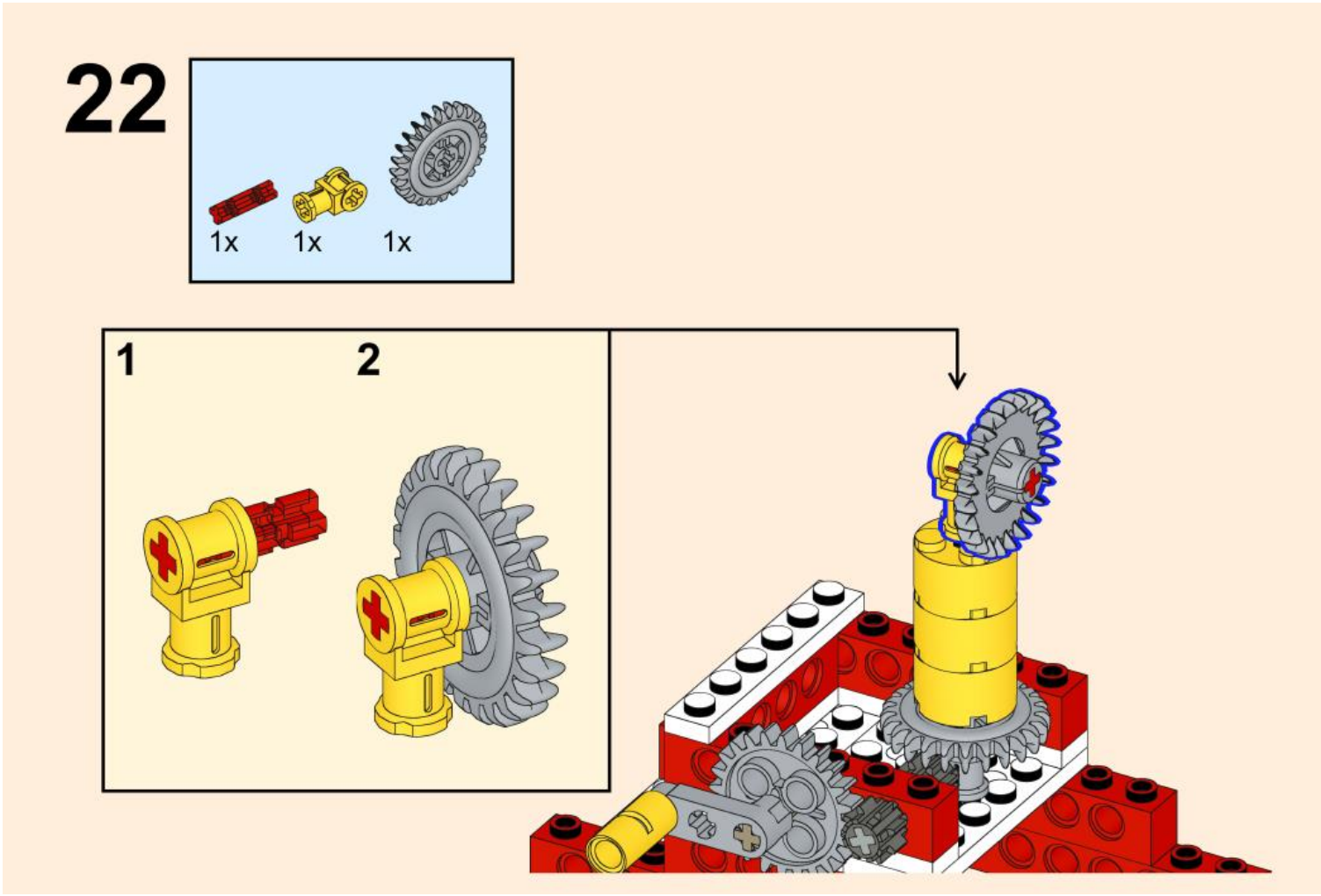
Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

SATELLITE DISH



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

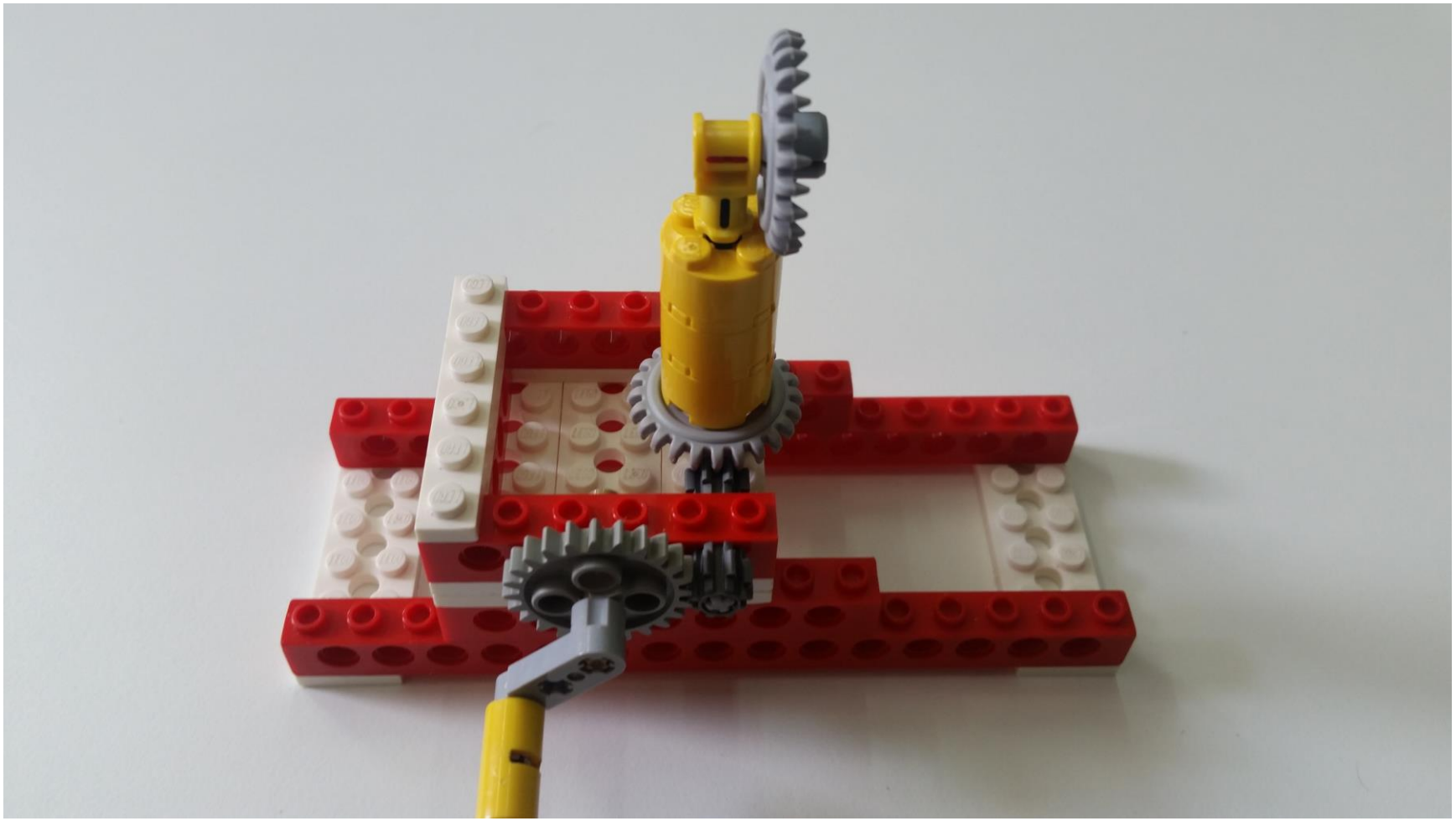
SATELLITE DISH



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

Simple machines

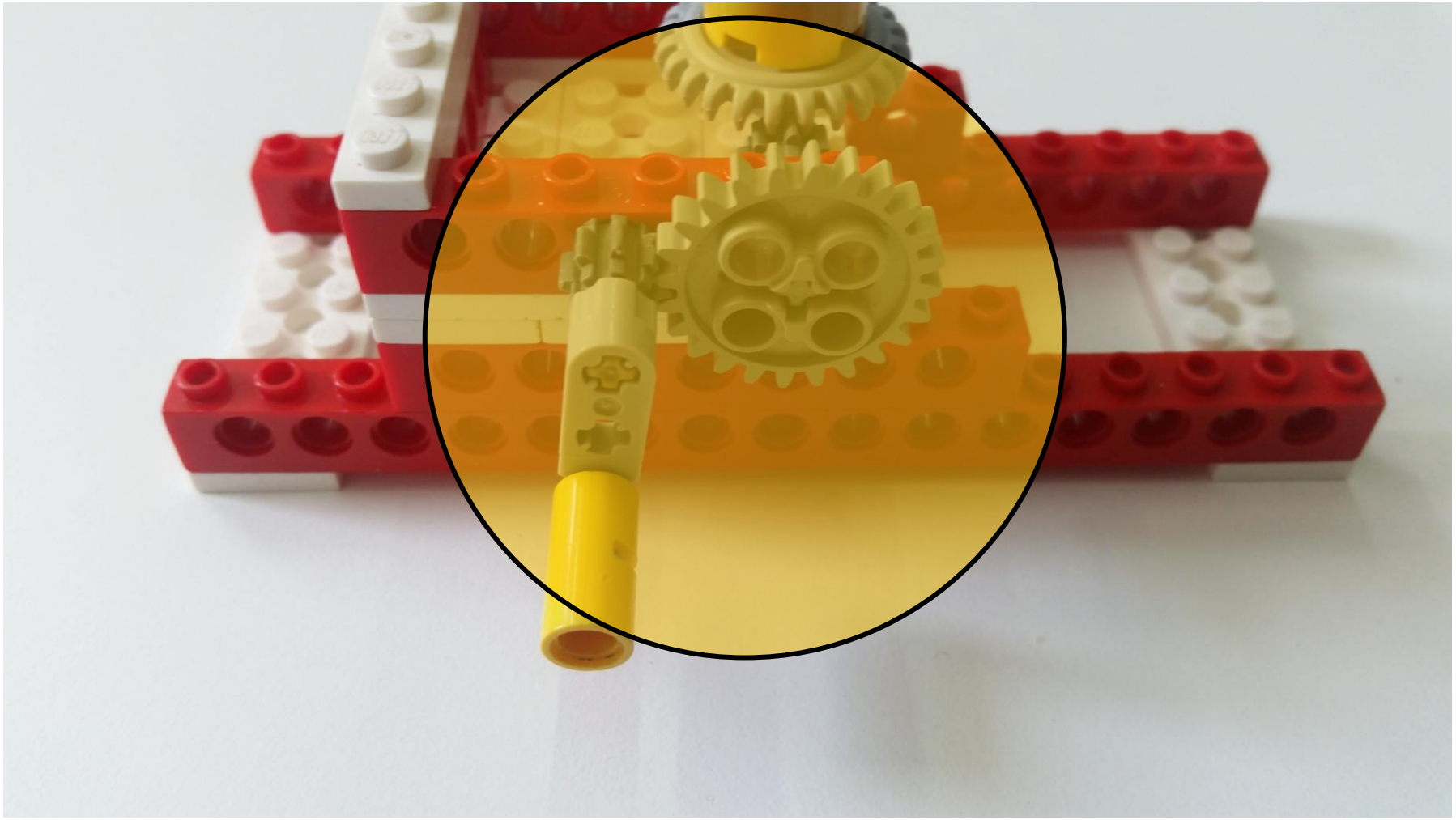
SATELLITE DISH



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

Simple machines

SATELLITE DISH



Change the position of the two gears and notice the difference

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

Simple machines

SATELLITE DISH

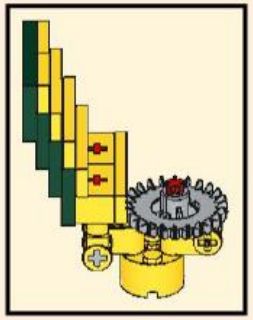


How we can follow the signal

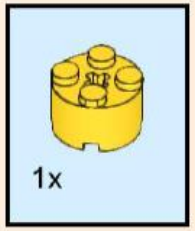
Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

Simple machines

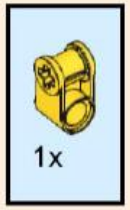
SATELLITE DISH



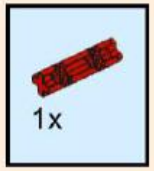
1



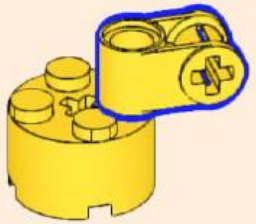
2

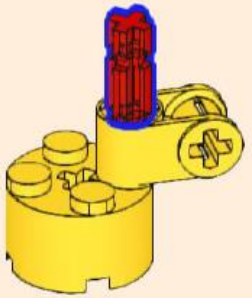


3







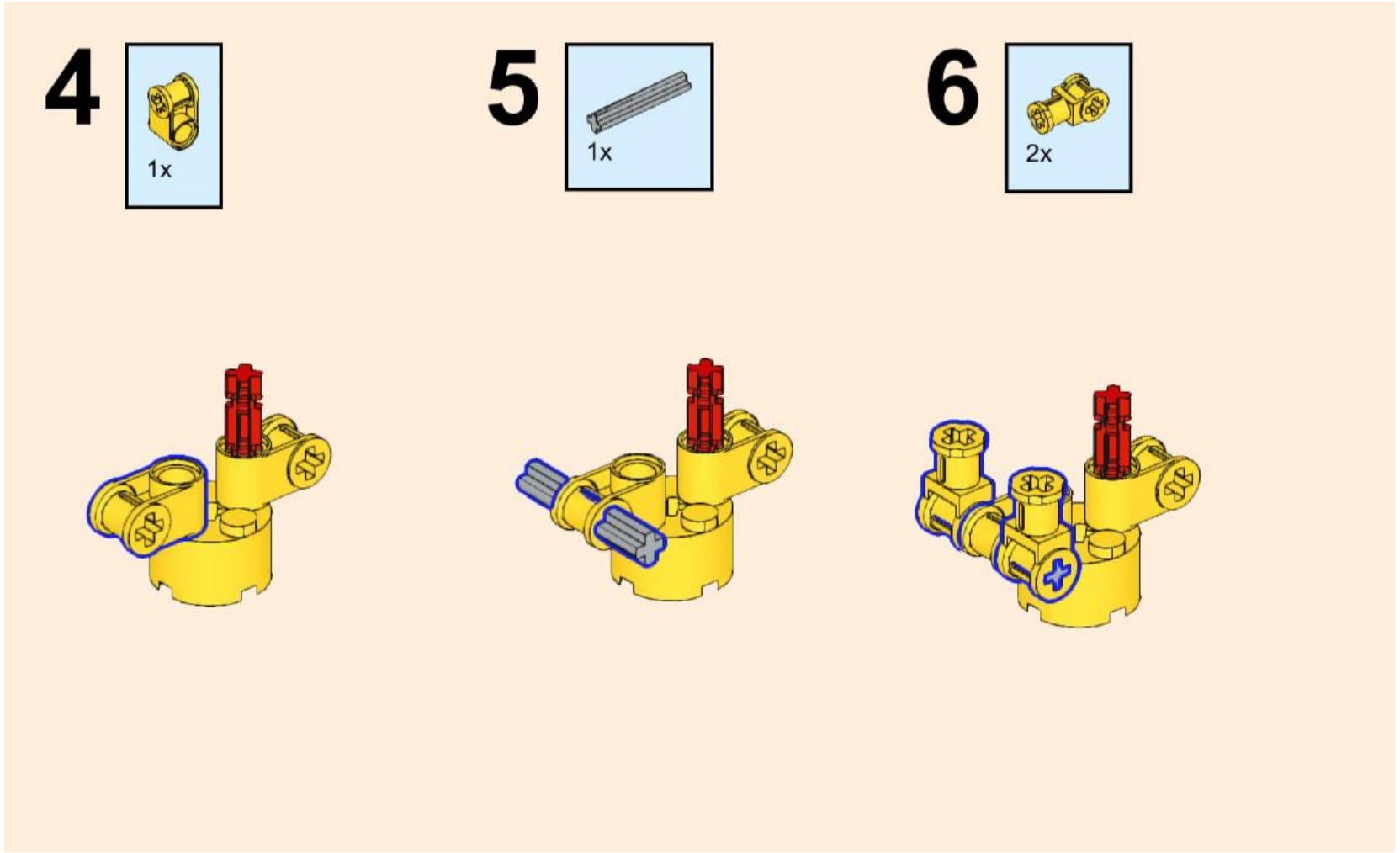


How we can follow the signal

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

Simple machines

SATELLITE DISH



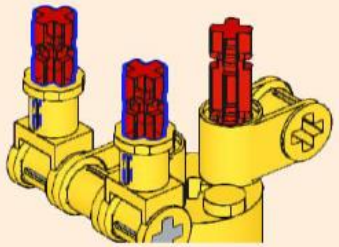
Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

Simple machines

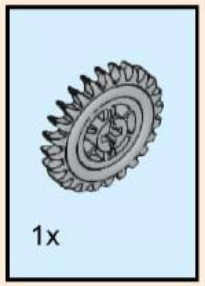
SATELLITE DISH

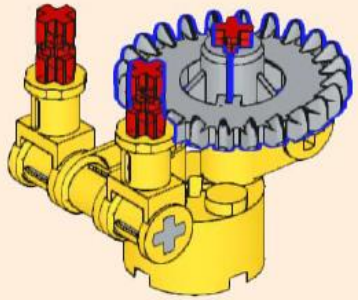
7





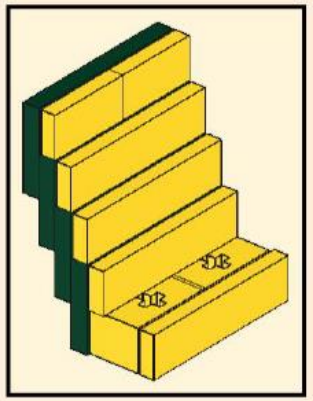
8



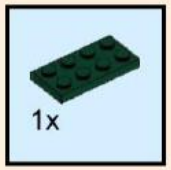


Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

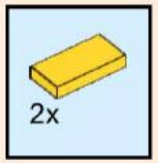
SATELLITE DISH



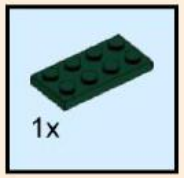
9

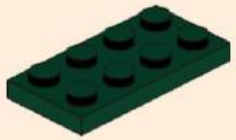


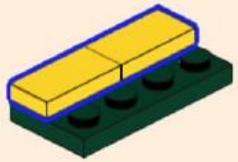
10

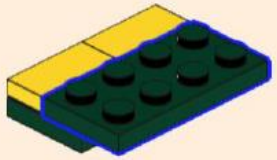


11





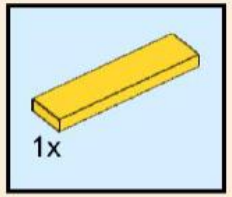


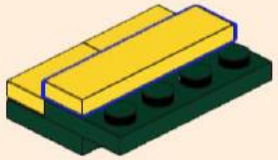


Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

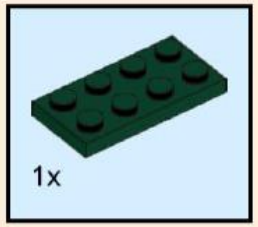
SATELLITE DISH

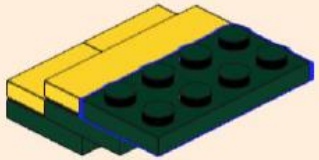
12





13

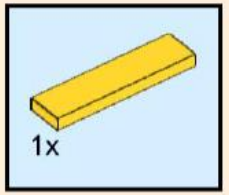


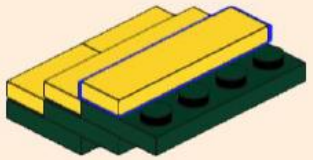


Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

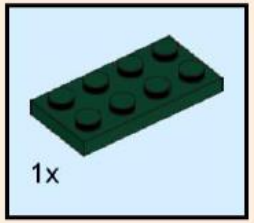
SATELLITE DISH

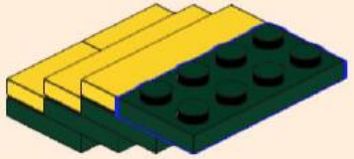
14





15

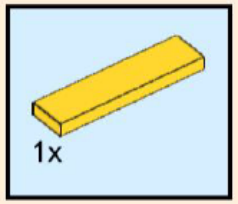


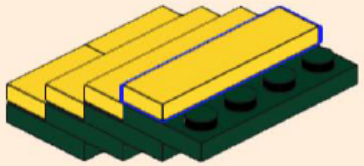


Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

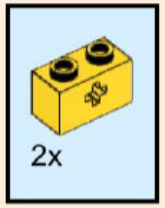
SATELLITE DISH

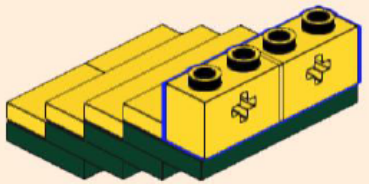
16





17

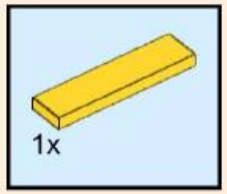


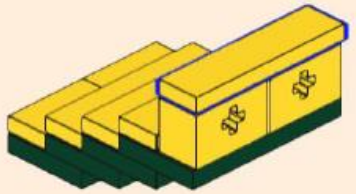


Erasmus+
Project No.: 2021-1-EL01-KA220-SCH-000023967
Call 2021 Round 1 KA2
KA220-SCH - Cooperation partnerships in school education
STEM Education for Primary Schools
STEM for Youngsters

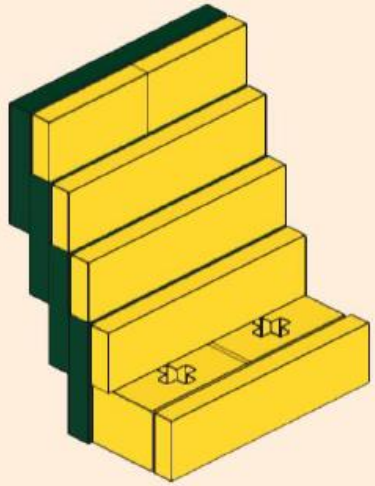
SATELLITE DISH

18





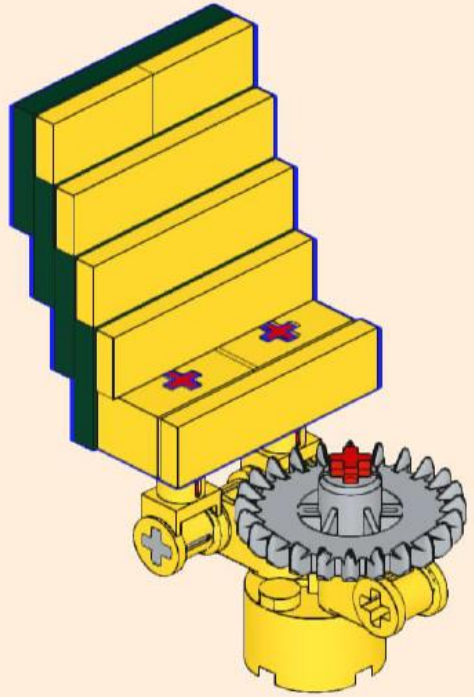
19



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

SATELLITE DISH

20



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