

build a solar hot rod

Construct this exciting model of a chopper car and experience the power of the sun. Learn how solar panels work and how weight can be manipulated to control speed.

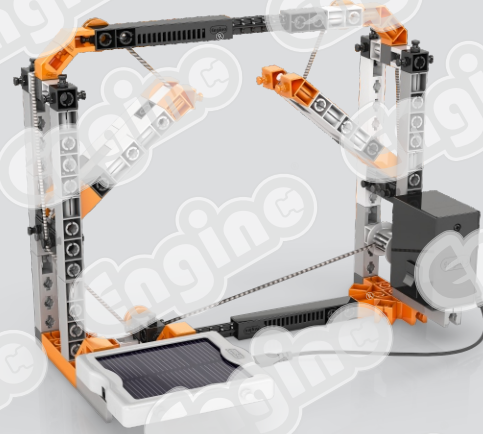
- How solar panels work.
- How weight affects speed.



build a solar robot

Combine two modern technological advancements into one model: the solar powered robot. Observe the energy transformation from solar to electrical.

- What the latest technology advancements are.
- How energy changes forms.



build a solar drawbridge

Build this amazing model of a drawbridge and become a traffic controller for cars, ships and pedestrians. Learn how pulleys and strings work together to move objects in the desired direction, using the power of the sun.

- How real life bridges work.
- How to set pulleys to move objects.



build a solar winch crane

Create this fascinating model of a winch crane and use it for lifting light loads. Learn how force is transferred from one point to another, what the mechanical advantage is and how it can be used.

- How real life cranes work.
- How force is transferred.

DISCOVERING STEM

Science • Technology • Engineering • Mathematics

SOLAR POWER

converting sunlight to electricity

Climate change and global warming urge scientists to take action and save our planet by reducing carbon emissions. The sun can provide free energy for all of our needs, however, we need to convert it to a useful form. This set includes one 3V solar panel that powers an electrical motor, along with instructions for 16 solar powered models such as a hot rod, a fan, a plane, a robot and a winch tractor. You can find easy-to-follow building instructions for all models either online or in the booklet included. The booklet provides detailed explanations of the different scientific principles applied and incorporates innovative experimental activities for hands-on learning. A Quiz section is also available to challenge your newly acquired knowledge!

12 pages of theory and amazing facts!

3 pages of experimental activities!

3 pages of revision quiz!

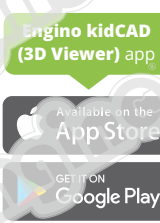
4 pages of step by step instructions!



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Product Code: **STEM30**

Edition 3.0

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to build

9+ years

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engineers

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1 printed
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