

## Lego Space Challenge Set

Developed with space experts, the Space Challenge Set for LEGO MINDSTORMS Education EV3 provides rich opportunities for students to explore and create innovative solutions for current space exploration topics. The set conforms to national curriculum standards and the accompanying digital content provides student-ready materials, teacher notes, and building instructions.



LEGO MINDSTORMS Education EV3 Space Challenge lessons are designed to fit within your class time and bring real-world scenarios to life. Pupils explore problems that space researchers are actually trying to solve.

- The seven missions challenge pupils to apply and creatively adapt programming and problem solving skills to construct robots that solve actual space exploration challenges.
- The nine individual Learning Missions encourage pupils to investigate, observe, calculate, and apply knowledge to solve specific tasks.
- Three research projects were co-developed with NASA and are designed to familiarize students with the planning process for space exploration.



### Materials required

In addition to the LEGO MINDSTORMS Education EV3 Core Set (45544) and LEGO MINDSTORMS Education EV3 Software, the Space Challenge curriculum requires the EV3 Space Exploration Set (45570). Download the curriculum and software here

### Where do I start?

For more information and resources go to:

- <https://education.lego.com/en-gb/support/mindstorms-ev3/space-challenge>
- STEM Learning <https://www.stem.org.uk/cxenh4>
- The eLibrary <https://www.stem.org.uk/resources>



### About LEGO Education

From preschool to secondary school, LEGO Education provides a continuum of hands-on playful learning tools that engage every pupil's natural curiosity, and help them develop the skills and confidence they'll need in the future. Find out more at <https://education.lego.com/en-gb/makerspace>

Through real-life STEM challenges and engaging physical and digital creation, encourage your students to develop 21st century skills through coding as they program solutions in a real-world context. Find out more at <https://education.lego.com/en-gb/coding>.

### More...

For more ideas and inspiration go to:

- <https://www.lego.com/en-gb/mindstorms/products/mindstorms-ev3-31313>
- STEM Learning <https://www.stem.org.uk/cxenh4>
- The eLibrary <https://www.stem.org.uk/resources>

***All schools in Wales who request a STEM Ambassador can borrow the Lego Mindstorms Space Challenge Set from their local STEM Ambassador Hub – See-Science – free of charge.  
Contact [enquiries@see-science.co.uk](mailto:enquiries@see-science.co.uk).***