

# ROAD TO RIAT STEM CHALLENGE - GLIDER

Prepare for Take-off! Road to RIAT is back, and it's bigger and better than ever! This extraordinary, cost-free programme invites 500 state primary schools to embark on a thrilling exploration of STEM. Generously sponsored and delivered in partnership with the RAF Charitable Trust and the RAF.

Students currently in Year 5 (or equivalent) are invited to soar into a world of innovation and creativity with a series of captivating activities, starting with the STEM Challenge - a full-day, virtual workshop that brings the excitement of aerospace engineering right into classrooms across the UK.

## About the STEM Challenge Day

The day begins with a high-flying adventure. Students will team up to design, build, and test three unique gliders, each a masterpiece of form, shape, and materials. The sky's the limit as they unleash their creativity and engineering skills!

In the afternoon, the mission continues with a groundbreaking activity – The Sustainability of Aerospace. Students will envision and design the sustainable aircraft of tomorrow, crafting posters to showcase their revolutionary ideas.

The competition heats up as schools submit their top sustainable aircraft designs for a chance to win fabulous prizes, including £100, two LEGO® Education SPIKE™ Prime kits (worth £700), and winners will get exclusive access to the Royal International Air Tattoo (RIAT) in July 2025!

On the day winners will also win one exclusive robotics STEM Day for their school, provided by the RAF.

## This event includes the following:

- Your students will discover the magic of flight and the role of aerospace engineers
- Master the art of balancing forces during flight and build test gliders
- They will dive into wing shape, aircraft design, balance, and forces
- Uncover the fascinating world of aerospace engineering
- Apply scientific methods to test and refine gliders



## WHEN

19 Mar - 19 Mar 2025

Start time: 09:30 hrs

Finish time: 15:00 hrs



## WHERE

Virtual delivery



## COST

Fully funded