

in Primary Schools

Inspiring the Future Workforce



Who We Are

We aim to inspire primary students to be curious and expand their horizons by offering a fun approach to learning that supports the curriculum, while also providing access to equipment and resources not usually available in schools. Our activities integrate real-world experiences and introduce early career thinking, helping pupils identify important soft skills for learning and life. Through this, we foster a deeper understanding of science and technology and their relevance to our future world.

“The activities were all beneficial as they provided information about the different roles in the industry in a fun and engaging way.”

- Teacher

In the 2024-25 academic year:

12,210

Students

3,670

Volunteer hours

27,933

Sessions delivered

Benefits to Schools

Support your curriculum with engaging, hands-on STEM activities that enrich learning and inspire curiosity across all year groups.

Benefits to Pupils

Spark excitement and confidence in STEM through fun, interactive sessions that encourage problem-solving, teamwork, and creativity.

Why Choose SATRO

With decades of experience in education, SATRO brings high-quality, fully delivered workshops that make science and engineering come alive for young learners.



Our STEM Programmes



Science

CSI Goldilocks (Years 1-2)

A workshop investigating evidence and problem solving. Involving team work and deduction to identify who committed the crime. The three bears return home to find Goldilocks in their house. She denies breaking the chair and eating the porridge. Pupils look at evidence gathered by the Forest Police. They are tasked with trying to work out if it was Goldilocks is guilty or if it could have been another of the forest's inhabitants.



Technology

Coding (Years 1-6)

Pupils will work in pairs, one class at a time, to design, engineer and code Lego models using iPads, a motor and sensors. Students will work in pairs, one class at a time, to build and code models using Lego bricks for years 1-3, with a focus on a sustainable future for our planet. While years 4-6 code with BBC microbits.



Engineering

Science of Health (Years 3-6)

A workshop looking at the definition of health and how it is measured through practical activities, group work and technology. Using VR technology and health apps we bring learning to life. A workshop that supports an understanding all aspects of physical health, and the different ways health can be measured.



Maths

Fun Maths (Years 3-6)

Students work in small groups to solve different maths puzzles that challenge them to use mathematical reasoning, number facility, deductive reasoning, reading comprehension and critical thinking - all while having fun and working in a team. Ideal preparation for SATs. SATRO bring age-appropriate puzzles and set them up on tables in a hall. Students will then have the opportunity to complete as many puzzles as they are able.

Our STEM Programmes



Electricity and Renewable Energy (Years 4-6)

A workshop exploring circuits, components, conductors & insulators, light, sound and sustainable energy.

Building Bridges (Years 3-6)

Teams of students use k'nex to learn the concepts of bridge design. They then use their knowledge to design and model their own solution to a set problem.

Insects and Classification (Years 3-6)

Explore the wonderful world of insects in this workshop, which looks at types of insects, how we classify living things and how we sample them in the field.

Shapes makes Structures (Years 1-6)

Pupils will work in small groups, one class at a time, to design and build structures. They will gain an understanding of 2D and 3D shapes.

Plants (Year 3)

Hands-on understanding of the process of pollination, parts of the plant, and introduce children to survey techniques.

Our Core Programmes

Mission to Mars (Years 4-6)

This activity is for students in Years 3-8 with differentiated topics. Student will work in pairs, one class at a time, to code a BBC microbit to control Invent Engineer robot vehicles with an iPad.

Students will:

- Code the vehicle to go forward, reverse and turn using Blocks “drag and drop” software to create a working model;
- Code the LED screen to display images and messages;
- Code the vehicle to use sensors to detect obstructions and alter course;
- Code the vehicle to complete a course.

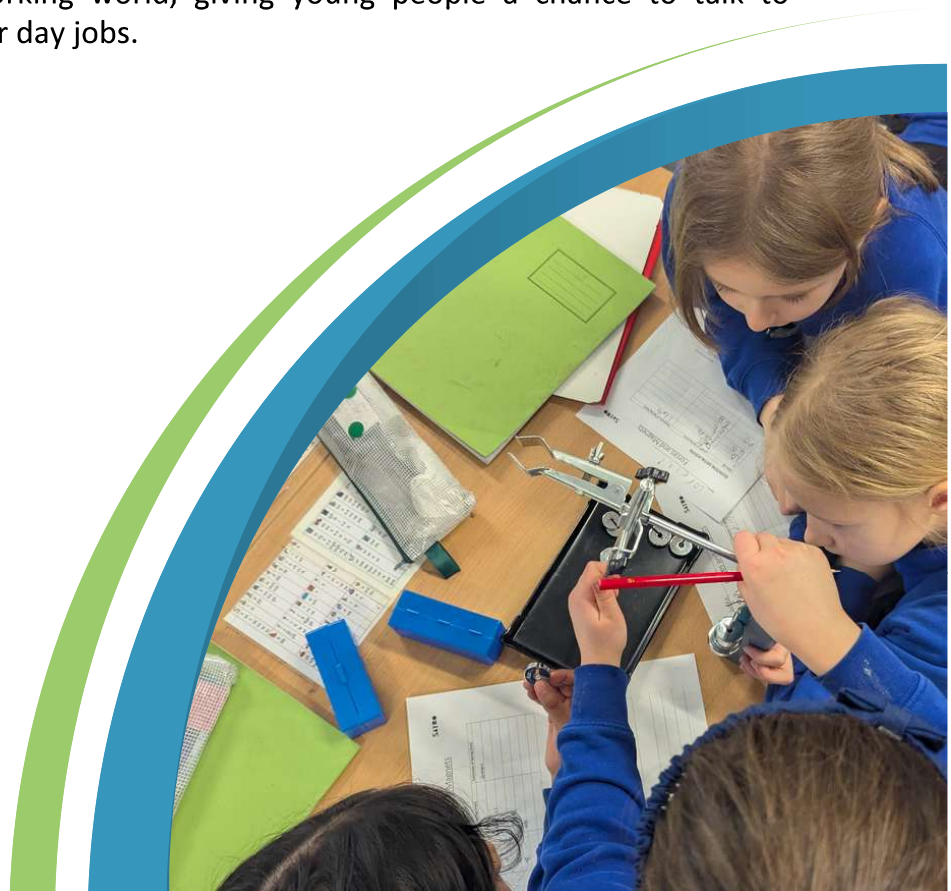
Business and Enterprise Game (Year 6)

Teams of students run a manufacturing business for the day, taking on the roles of CEO, Head of Marketing, Accountant etc. They will:

- Manufacture products, buy supplies and sell their products
- Produce marketing campaigns and win orders from buyers
- Manage their finances and operate their bank account
- Deal with emergencies e.g. stock market crash or a strike

The day is fast and furious, sometimes stressful (just like the real working world!) and hugely exciting for students and teachers.

SATRO Business Games are suitable for all abilities. All our games are delivered by expert staff who will bring with them all the equipment required, and involve volunteer business people from all areas of the working world, giving young people a chance to talk to 'business ambassadors' about their day jobs.



SEN and Inclusion

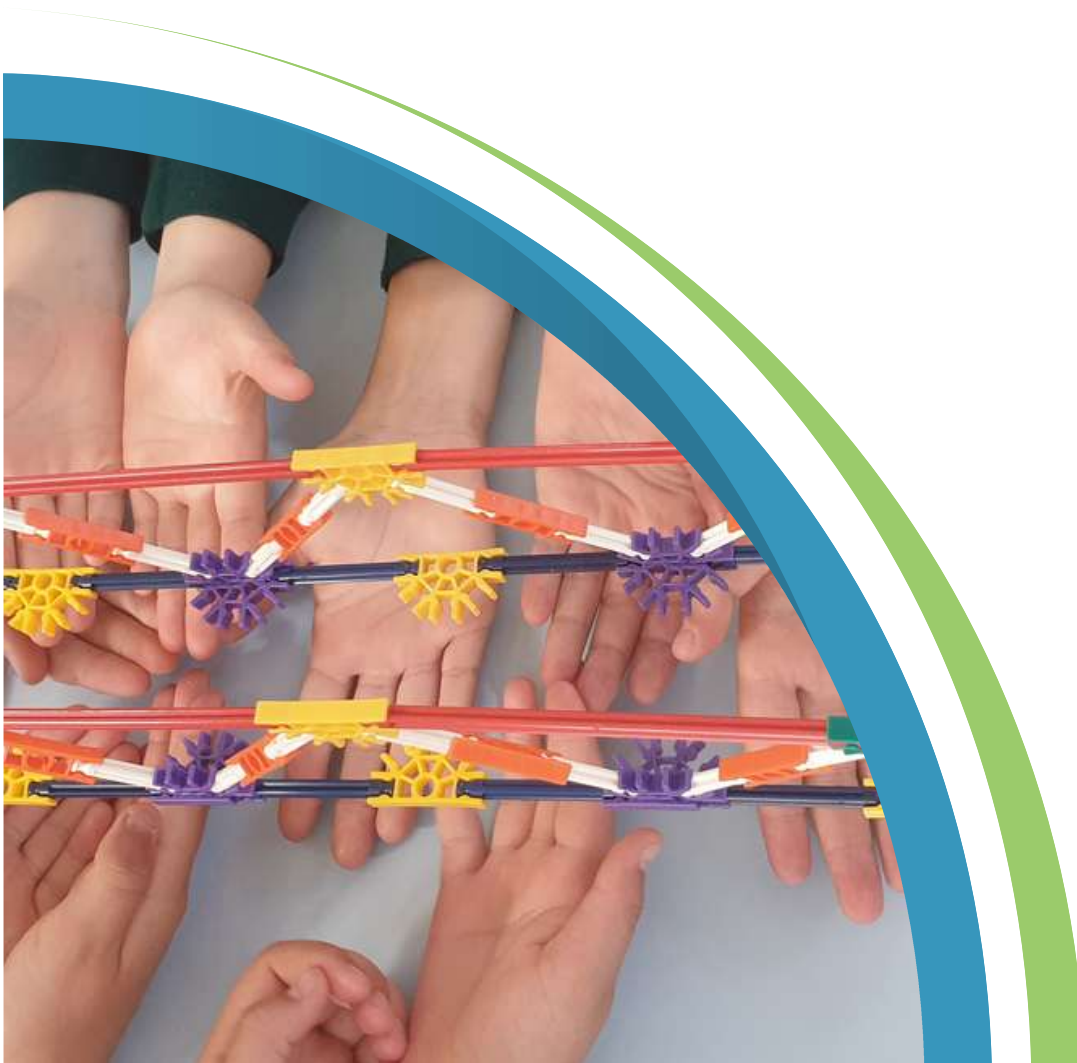
SEN

SATRO works with students of all abilities and needs across all areas of our provision, and we are able to adapt our workshops and events to meet specific requirements. All of our Primary and Secondary programmes, including events, are fully inclusive. We also offer the flexibility to deliver our Primary workshops within Secondary settings to support SEN learners. We also provide support for home-educated learners.

Inclusion

In addition to our standard offers, we can deliver timetabled sessions linked to curriculum topics from our workshops to support STEM learning in SEN or inclusive settings. These can be arranged as weekly sessions, delivered in short blocks throughout the year, or offered as a complete set. We also provide a series of taster sessions from our workshops and challenges, which can be delivered across a term or year to different year groups.

"It was really enjoyable...would definitely do it again" - Student



Customised Support

Tailored to your school priorities

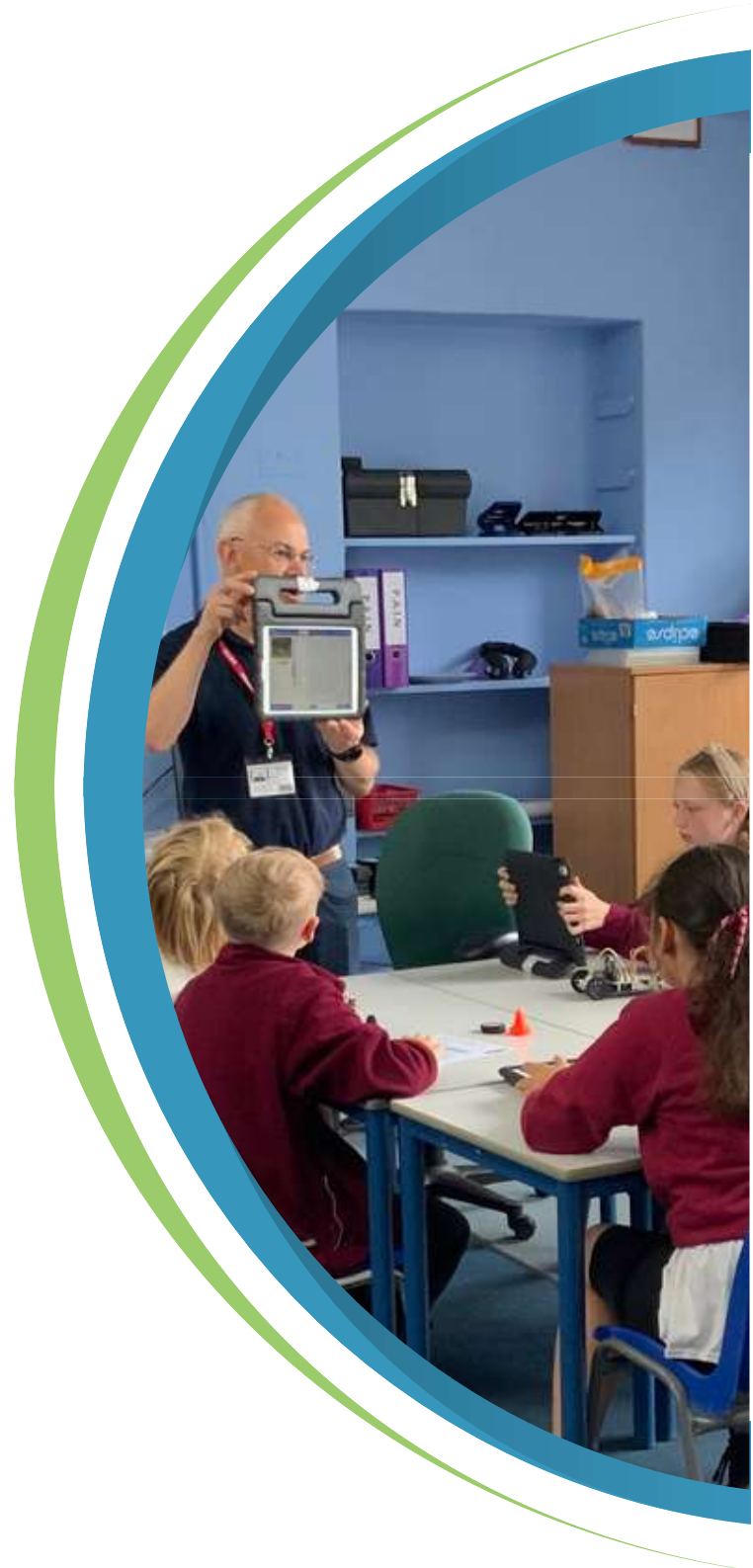
SATRO works with all abilities and needs across all of our provision and are able to adapt workshops and events to meet specific needs.

Industry Partners

Our programmes and activities deliver both technical and employability skills. The support of our corporate partners helps make all this possible, sustainable and relevant.

Teacher support

We support schools enrich their curriculum and meet their Gatsby Benchmarks. Teachers provide feedback on all our sessions and which helps us review and develop what we deliver.



Booking and Pricing

- ✓ Simple booking process
 - ✓ Early/multiple booking benefits
 - ✓ Costs to state schools are subsidised as part of our charitable purpose.
 - ✓ We work in partnership with you to achieve the best outcome from our events for your students.
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To book or find out more:

- ✉ contactus@satro.org.uk
- 🌐 www.satro.org.uk/primary
- 📞 01483 688 070

