Spark2

# STEM Superstars Brochure - Primary

besa
BRITISH EDUCATIONAL SUPPLIERS ASSOCIATION

www.Spark2.org

# Booking a School Visit with Us


1. View our **workshop themes** (in the next pages) and choose which one you would like to learn more about

2. Click the **enquiry button** at the bottom of your desired workshop theme to provide us with your school postcode and contact information.

3. Complete our **booking form** and your date will be secured. Then we'll be in contact to finalise the day's schedule.

## Important information before booking

One classroom or space (with tables and chairs) is required for the whole day

Our team will need access to this space 45 minutes before the first workshop is due to start in order to setup.

For our VR visits, we advise that pupils with epilepsy should consult with their doctor before using a VR headset.

Some workshops are only suitable for specific age groups. Please check the individual workshop pages or contact us to verify Key Stage suitability.

All parents and guardians will be required to sign a permission slip for their child before they are able to participate.

# About us

Spark2

At Spark2, we are on a mission to inspire young learners and encourage them to explore the world, make discoveries, and never stop asking questions.

We want to create an environment where students value both practical knowledge and critical thinking skills, as well as the wisdom it takes to care for others, their communities, and their own mental health.

That's why we offer schools a variety of fun and interactive workshops where students can learn about everything from an array of STEM subjects, history, first-aid, mindfulness, and even health and fitness.

And they can now experience those lessons through our new and exciting **Virtual Reality Sessions** - bringing the WOW factor for years to come.

## Our mission

- Encourage kids to question, explore & discover
- Promote interactive learning to engage minds
- Nurture future innovators by sparking curiosity

## Our impact so far

- 1,000+ schools visited
- 100,000+ students inspired
- 28+ topics covered

# STEM Superstars

> This workshop is exactly what we were looking for, a range of fantastic STEM activities to inspire our students.

- Adam Smith, STEM Co-ordinator (St Peter's Primary School)

# Bots with Brains:

## Exploring Robotics & Creativity

### *A Physical Workshop Experience*

Dive into the fascinating world of coding, an integral part of our STEM Superstars program designed for primary school students. This hands-on session introduces pupils to the basics of coding and algorithms through interactive play with Sphero Indi robots.

Explore the practical uses of coding in everyday life, understand what algorithms are through real-world examples, and engage in exciting challenges that illustrate the principles of programming. Aimed at sparking an interest in computer science, this workshop encourages curiosity, problem-solving, and appreciation for the role of technology in shaping our world.

## This workshop covers:

- **Foundational Coding Knowledge:** Students gain a basic understanding of coding and algorithmic thinking, setting the foundation for future learning in computer science.
- **Problem-Solving Skills:** Through interactive challenges, pupils develop critical thinking and problem-solving abilities, essential for programming and beyond.
- **Creative Exploration:** The workshop encourages creativity and innovation, allowing students to explore coding in a supportive, playful environment.

This is an immersive workshop that lets students apply their newfound knowledge in fun and interactive ways by solving real-world problems using our Sphero Indi Kits.

★★★★★

"The screen-free coding sessions really helped our students understand the building blocks of coding."

- St Mary's Primary School

30-45 Mins

STEM

Screen Free

**Click here to Enquire**
about our STEM Superstars visits

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STEM Superstars

# Super Structures:
## Building the Unthinkable

### *A Virtual Reality Experience*

Embark on an engineering adventure with the "Elite Engineers" VR Workshop, part of our STEM Superstars program designed for primary school students. This immersive session introduces pupils to the awe-inspiring world of superstructures, from the ancient Pyramids of Giza to the towering Burj Khalifa and the innovative Mars One base.

Students will uncover the secrets of architectural design, the principles of stability, and the boundless potential of engineering innovation. This workshop connects the dots between historical achievements and future possibilities in the built environment.

## This workshop covers:

- **Appreciation for Engineering:** Cultivate an admiration for civil engineering and architectural achievements across different periods and cultures.
- **Understanding Stability Principles:** Grasp how superstructures withstand natural forces, applying knowledge of physics and materials science.
- **Environmental Awareness:** Foster an understanding of how engineering interacts with the natural environment, emphasizing sustainable and harmonious design practices.

Our workshop harnesses the latest VR technology to present 360° imagery and videos of some of humanity's most impressive super structures like the Golden Gate Bridge and the Petronas Towers.

★★★★★

"Really well planned. The presenter was very friendly and engaged with the children well. The children really enjoyed the sessions. Will definitely book again."

- Banksfields Primary School


30-45 Mins

STEM

VR Powered

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about our STEM Superstars visits

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STEM Superstars

# Change and Adapt

(British Science Week 2025 Theme)

*A Physical Workshop Experience*

Celebrate British Science Week with our "Change and Adapt" Workshop, a dynamic exploration of change and adaptation across various scientific dimensions tailored for primary school students. From understanding natural selection and evolution to examining the physical principles behind changing states of matter, this workshop offers a series of interactive demonstrations and activities.

Students will engage with concepts such as heat transfer, air pressure, gravity, and material properties, making for an educational adventure through the realms of science and adaptation.

## This workshop covers:

- **Adaptation Challenge:** Engage in thought-provoking exercises to explore how organisms adapt to their environments, highlighting the principles of natural selection and evolution.
- **Changing States Experiment:** Conduct hands-on experiments to demonstrate heat transfer and state changes, understanding how different materials react to various conditions.
- **Air Pressure Dynamics:** Experience the effects of air pressure and motion through interactive activities, learning about the principles of pressure and its impact on our environment.
- **Gravity in Action:** Observe demonstrations to visualize gravity and its effects on different objects, offering a clear perspective on how gravity influences adaptation and movement.
- **Material Properties Exploration:** Explore the properties of various materials and how they adapt to different environmental conditions, from flexibility to durability.
- **Rocketry and Motion:** Engage in activities that examine the principles of force and motion, understanding how these principles enable adaptation in technology and nature.

This immersive workshop uses fun and interactive activities to spark students' excitement about scientific concepts related to "adaptation," in alignment with British Science Week 2024.

★★★★★

"The workshops and assembly were excellent, the children really enjoyed the investigations and the presenter was fantastic with the pupils. All workshops were educational and relevant as well as fun."

- St Teresa's Catholic Primary School


30-45 Mins

Science

Screen Free

**Click here to Enquire**
about our Science Professors visits

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Science Professors

# Bubbles Bonanza:

## Air & Bubble Wonders Unveiled

### *A Physical Workshop Experience*

Dive into the fascinating science of bubbles with the "Bubbles Bonanza" Workshop, a delightful educational experience designed for primary learners from EYFS to KS2. Professor's workshop illuminates the scientific principles of gas, pressure, and surface tension, perfectly aligning with the UK's Primary Science Curriculum.

Participants will be thrilled by interactive demonstrations and hands-on activities that unveil the magic behind bubbles, from their formation to their mesmerising behaviours, making for an engaging and unforgettable learning adventure.

## This workshop covers:

- **Scientific Understanding:** Deepen knowledge of the properties of gases, liquids, and solids, and understand how they interact in the natural world.
- **Hands-on Learning:** Enhance engagement with science through direct interaction and observation of captivating experiments.
- **Real-world Connections:** Relate scientific concepts to everyday phenomena, fostering a greater appreciation for the wonders of science.

This is an immersive workshop that uses fun and engaging visuals from giant bubbles to soaring smoke rings to inspire students curiosity about science.

★★★★★

“The children loved the practical investigations and were so excited to deepen their scientific understanding.”

- Hawthorn Tree School


30-45 Mins

Science

Screen Free

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Science Professors

# Space Exploration:

## Unleashing the Astronaut Within

### *A Virtual Reality Experience*

Embark on an awe-inspiring journey through the cosmos with our "Space Exploration VR Workshop," specifically designed for primary school students. This immersive experience invites students to build and launch a NASA rocket, explore the intricate relationship between the Earth and Moon, and relive the historic Moon landing.

Through virtual reality, participants will gain a deeper understanding of the universe, appreciate human achievements in space exploration, and grasp fundamental scientific concepts, all while engaging with hands-on activities that bring the wonders of space directly to them.

## This workshop covers:

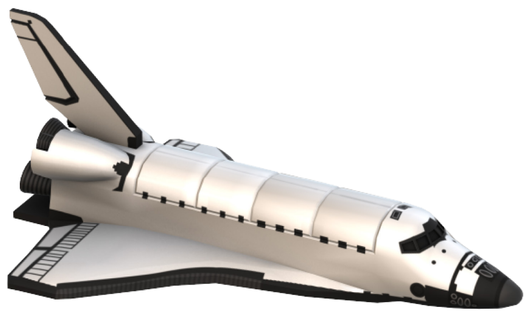
- **Astronomical Understanding:** Enhance knowledge of the solar system, the dynamics of celestial bodies, and the historical context of space exploration.
- **Scientific Inquiry:** Foster curiosity about space, encouraging questions about the universe, space travel, and the technologies that make exploration possible.
- **Inspiration and Aspiration:** Inspire students with human achievements in space, highlighting the possibilities within the STEM fields.

This workshop is brought to you using authentically recreated 360° imagery and videos from the Kennedy Space Centre, the Moon, and Earth (from the astronaut's perspecitve).

★★★★★

"We all had an amazing time when Science Professors visited our school! There was a great mix of learning with fun, teachers from all year groups could see clear links to the primary curriculum and the Science Week theme."

- Pownall Green Primary School


30-45 Mins

Science

VR Powered

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Science Professors

# Climate Change:

## VR Workshop

### *A Virtual Reality Experience*

Dive into the heart of our planet's environmental issues with the "Climate Change VR Workshop," an immersive experience designed for primary school students. Through virtual reality, participants will explore various ecosystems affected by climate change, including animated cities, rainforests, oceans, and polar regions.

This workshop is crafted to align with the UK curriculum, aiming to spark interest, provide hands-on learning, and instil a sense of responsibility towards Earth's future. Students will gain a deeper understanding of environmental challenges, the importance of biodiversity, and the impact of human activities on our planet.

## This workshop covers:

- **Environmental Awareness:** Gain insights into the significant environmental challenges posed by climate change across different ecosystems.
- **Empathy and Responsibility:** Develop empathy for the creatures and people affected by climate change and foster a sense of responsibility towards taking action for the planet.
- **Curriculum Alignment:** Align with the UK curriculum objectives related to understanding environmental science, biodiversity, and the impacts of human activities.

This workshop is brought to you using 360° imagery and videos that illustrate the climate change impact on our communities and the world as a whole.

★★★★★

“The children had a complete blast during the workshops, and continue to mention them weeks after the event. The 'life long learning' has been achieved here!”

- Plaxtol Primary School


30-45 Mins

Science

VR Powered

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Science Professors

# Dinosaurs & Volcanoes:

## VR Workshop

### *A Virtual Reality Experience*

Step back in time with our "Dinosaurs and Volcanoes VR Workshop," an epic journey that brings the prehistoric world and the dynamic forces of Earth to life for KS1 and KS2 students. This immersive VR experience combines education with excitement, transporting students to the sizzling landscapes of active volcanoes and the ancient realms of majestic dinosaurs.

Designed to align with the UK's Primary Science Curriculum, this workshop offers an unforgettable exploration of Earth's geological wonders and the fascinating era of dinosaurs, making learning as thrilling as it is informative.

## This workshop covers:

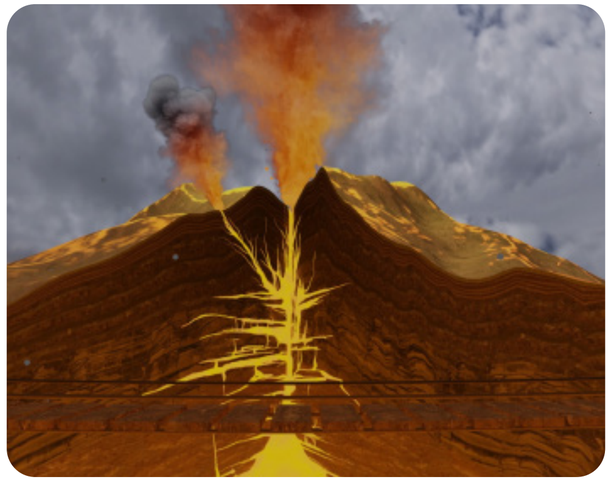
- **Geological Understanding:** Gain insights into the mechanics of volcanoes and the role of plate tectonics in shaping Earth's surface.
- **Dinosaur Discovery:** Enhance knowledge of dinosaurs, their evolution, and the prehistoric environment they inhabited.
- **Historical and Earth Sciences Insight:** Develop a deeper understanding of Earth's dynamic history, from its fiery volcanic activity to the reign of the dinosaurs.

This workshop is brought to you using 360° imagery and videos to create an immersive VR experience that brings complex scientific concepts to life, making learning engaging and memorable.

★★★★★

“Partnering with Science Professors has been a game-changer. The impact on our students has been profound. They have not only learned but have loved every minute.”

- St Michael’s Primary School

30-45 Mins

Science

VR Powered

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# Our Workshops Schedules

Spark2

## Choose the schedule that works best

We have crafted a timetable below that works well, however every school is unique so a customised timetable will be available for your school.

| Start End | Session | Class Groups |
|---|---|---|
| 9:00 - 9:40 | Session 1 | Class Group 1 |
| 9:50 - 10:30 | Session 2 | Class Group 2 |
| 10:30 - 10:45 | Break | |
| 10:50 - 11:30 | Session 3 | Class Group 3 |
| 11:40 - 12:20 | Session 4 | Class Group 4 |
| 12:20 - 13:30 | Lunch | |
| 13:30 - 14:10 | Session 5 | Class Group 5 |
| 14:20 - 15:00 | Session 6 | Class Group 6 |

As all our sessions are age-adapted, we typically visit one year group per session. Theme availability may differ by region, school size, or age group. If you would like to adapt this schedule or if you have any specific requirements, please contact our team and we would be happy to help.

## We Provide the Equipment

We can adapt to a standard classroom or any suitable space within the school premises.

We bring all the necessary equipment, transforming any room into an immersive learning experience.

## Timings to Suit You

We can adapt the start and end times of the sessions, or the duration of the sessions to suit your school's needs.

## Customisable Visits

We offer a range of age-adapted themes to ensure students experience the most exciting and educational workshops possible.

## Safety & Safeguarding

The safety of your pupils is paramount. We conduct thorough risk assessments for all our equipment, ensuring its safety. Futhermore, our team is fully trained and each have been enhanced DBS checked as part of our commitment to child safety.

# What’s Included

## What’s included?

- Between 6-7 workshop sessions, each lasting 30-45 minutes each
- All of the equipment needed for the day to ensure all students get to take part
- A member of the Spark2 team will set up the equipment and deliver all of the workshops
- For VR visits - each class can choose a different workshop theme to match their current topic

## Looking to book a visit?

Please go onto the specific workshop of interest page and use the button to submit your enquiry. A member of the Spark2 team will be in touch shortly.

**Depending on the type of visit selected*

# We Strive to Provide Excellence

Spark2

To ensure that we continually provide the best visits, one school at a time, we optimise and improve all of our workshops using our three-tier feedback approach:

- Children
- Teachers
- Presenters

Overall Positive Feedback

91%

Teacher Satisfaction Rating

93%

Schools Would Recommend

95%

# Hear What Others Say

Spark2

Heroes of History

"Presenter was very knowledgeable and engaging for children in all year groups."

- Kayleigh Ransome, History Coordinator (New York Primary School)

Cool Coders

"The screen-free coding sessions really helped our students understand the building blocks of coding."

- Maths & Computing Lead (St. Mary's Primary School)

STEM Superstars

"I didn't know science could be so fun!"

- Student, aged 5 (Crossley Street Primary & Nursery School)

Science Professors

"The children were amazed and talked about it for weeks afterwards."

- Deputy Head (Christ Church CofE (VA) Primary School & Nursery)

First Aid Friends

"It was really informative and all our children loved it! She was very friendly and engaged all of our children including our SEND."

- Maths & Computing Lead (St. Mary's Primary School)

Fit4all

"We have already booked for next year! Seamless from booking, to delivery; great organisation and presenting."

- St. Raphael's Primary School

Brain Busters

"My class has never been so excited about solving problems!"

- Alan Mockford (Lawn Street Primary School)

Mind Masters

"Great for the children's well-being and mental health. They loved it! Lucy was great and very engaging for the children."

- Caroline Farmer (Abbey Primary School, Northampton)