



# New Mills School

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18<sup>th</sup> March 2026

Dear Parent/Carer

I would like to offer the opportunity for 42 Year 7 and 8 students to visit The Big Bang Fair at the NEC Birmingham on Thursday 11<sup>th</sup> June 2026.

Discover exciting possibilities and connect to inspiring role models and world leading companies in science, technology, engineering and maths (STEM) with the Big Bang. Young inventors and experimenters, future game-changers and lifesavers all develop and shine at The Big Bang Fair. The Big Bang Fair showcases surprising ways to build a brighter and greener world.

You will be able to test your skills at the Rampaging Chariots arena, putting some powerful and lightweight robots around an assault course and learning about electronic engineering techniques that are the basis of many of the UK's most complex engineering programmes.

The Mysis: Sense and Detect exhibit simulates a real-life Mysis Direct Infrared Countermeasure, detecting threats and tracking them around the room. See it in action tracking down teddy bears and differentiating them from the safe humans.

Explore the world of Materials Science and Engineering (MSE); MSE is about understanding how the different materials all around us behave and what they can be used for. Using microscopes to investigate what different materials and objects look like very close up and investigate how they behave by breaking chocolate bars and squashing sports balls. Learn how important the design of a product is by disassembling a model car and reassembling it. Discover how batteries work, how they are made and how they can be recycled to help build a more sustainable future.

Explore with Rolls-Royce and get hands on operational experience piloting a submarine, building an aero engine, manufacturing your own reactor and take a tour inside one of their iconic engines.

If you wish to know more about The Big Bang Event, please watch the video on the link below

[Hands-on STEM activities | The Big Bang Fair 2025| Birmingham](#)

The trip will depart via coach at 06:30am and will return to New Mills School at approximately 3:00pm.

Students will not be expected to wear their school uniform, but it is recommended to wear a coat as it can get cold depending on the weather. Students will be required to bring a packed lunch, drink and snacks. Students who received free school meals will have a packed lunch provided for them.

To run the trip, the school is asking for voluntary donations of £20.00 payable via ParentPay. If you are struggling or unable to donate, but wish to attend, please contact [trobertson@newmillsschool.co.uk](mailto:trobertson@newmillsschool.co.uk)

If the trip does not receive enough donations, then the trip will not run, and donations will be returned. If the trip is oversubscribed, then names will be drawn from the hat. Donations will be returned to students who are unable to attend.

The closing date for the trip is **Friday 17<sup>th</sup> April 2026**. Students allocated a place will be sent a consent form that must be filled out.

Please note, we reserve the right to refuse or remove places based on your child's attitude and behaviour in school, or on any other previous trip or residential.

Yours faithfully

Thomas Robertson  
*Second in Science*