



Midhurst Rother College

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Part of United Learning

10 June 2024

Dear Parent/Carer

Harwell Open Day

I am delighted to offer your child a place on a trip to the Harwell Institute of Science Research on Wednesday 26 June.

As part of the visit the students will be given a guided tour of the diamond light source particle accelerator that uses a beam of electrons travelling at almost the speed of light to create intense, powerful beams of light.

Scientists use this light to study the atomic and molecular structure of materials - everything from viral proteins to engine parts and ancient texts - to help scientists understand more about the way the world works. This tour will give you a chance to see the accelerator for yourself and meet the beamline scientists who are helping to discover more about our Universe. Later, the students will have the chance to use real LHC data to find the Higgs boson for themselves. They'll be taken through how particle physicists use data and simple programming not only to discover new particles, but also to understand more about them, determining their mass and properties to astonishing levels of accuracy!

This visit offers valuable insights into the world of scientific research and a chance to ask questions to people working in the industry, I do hope all the students will take up the opportunity.

We will leave Midhurst Rother College at 9.00am and aim to return 5.30pm. As our return time is outside of College hours, your child's return home from school will need to be organised by yourselves.

Students will need to bring a packed lunch and enough water/snacks to last the day. We also advise comfy shoes as walking will be required!

This is a Free of Charge trip although permission will be required. Permission may be made on Arbor. On the Parent Portal, please go to "Quick Links" and then to Trips. You can then give consent. Medical details and contact details will be taken from Arbor, so please update these using the ParentPortal. For assistance with Arbor, please contact finance@mrc-academy.org.

Yours sincerely

Matthew Coombes
Teacher of Science



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