



Medicine and Materials

A study day for Years 9/10 with links to chemistry and biology
Wednesday 5th and Thursday 6th July 2017

A hands-on study day suitable for Years 9/10 students at the **Museum of the History of Science**, the **Oxford University Chemistry Department** and the **Oxford University Botanic Garden**.

Programme

Please aim to arrive at your first venue 10 minutes early for prompt start

9.30 -10.45 – Session 1 [A/B/C in rotation]

11.15 -12.30 – Session 2 [A/B/C in rotation]

12.30 -1.15 – Lunch break

1.15 -2.30 – Session 3 [A/B/C in rotation]

A: *Penicillin the Wonder Drug* [at MHS] *

Christopher Parkin, Museum of the History of Science

Location: Museum of the History of Science, Broad Street.

In this hands-on workshop students discover objects in the collection focusing on the story of penicillin, the world's first modern antibiotic. Students will explore artefacts from the Oxford wartime research programme and themes related to the social and historical factors in scientific research through objects and images.



B: *Synthesis and Separation* [at Chemistry]

Oxford University Chemistry Department

Location: Meet at the entrance to the Chemical Research Laboratory, South Parks Road

Students will find out about the importance of chemical synthesis and isolation of materials in the preparation of modern medicines. They will carry out an experiment in the laboratory to isolate a medicinal product from a plant substance.

C: *Plants and Medicines* [at the Botanic Garden]

Location: Oxford University Botanic Garden

Hands-on activities will include a guided trail to discover a variety of plants used in medicines; students will find out about how botanical research contributes to the development of new drugs.

* We regret that wheelchair access is limited at the Museum.

Booking: Maximum of 12 students per school. We kindly request a voluntary donation of £8 per student towards the costs of maintaining the education programmes at the Museum and Botanic Garden. Email: christopher.parkin@mhs.ox.ac.uk tel: 01865 277297