

HARROW COLLEGE & UXBRIDGE COLLEGE (HCUC)

APPLIED SCIENCE

STUDY PACK

HCUC

A merger between Uxbridge College and Harrow College

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Studying Science is the key to future success. Not only will you learn in detail about all aspects of science from practical lab work to the periodic table but you will also develop your analytical, practical and problem solving skills, develop your creative side and discover the world around you.

Not all science is studied in the lab or in the classroom. As part of the Life Sciences Department you will also have the opportunity to apply your specialism in a practical way.

Recommended Research:

Seven Worlds, One Planet (BBC)

The Planets (BBC)

Planet Earth 1&2 (Netflix/BBC)

Chemistry: A volatile history (BBC)

BBC Explosions How We Shook the World (YouTube)

BBC Documentary Atom: The Clash of the Titans (YouTube)

It helps to have a good understanding of the basic principles of biology, chemistry and physics.

The following websites are recommended to enable you to develop a sound understanding of basic scientific principles:

BBC Bitesize: <https://www.bbc.co.uk/bitesize/subjects/zrkw2hv>

Revision Science: <https://revisionscience.com/gcse-revision>

TASKS

Have a go at the following tasks:

1. Find a detailed picture of **an animal cell** and draw it fully and label accurately (including organelles). On your diagram, explain what the function of organelles is.
2. Do some research and look at your GCSE notes and tell us the difference between the two main types of wave: **Transverse and Longitudinal**.
3. Find an article online or in the newspaper that outlines the advantages and disadvantages of **stem cells in the treatment of disease**.

We look forward to seeing you at enrolment.
We'd love to see some photos of your edible cell pictures!
Upload to Instagram and tag @harrow.college

CONTACT US:

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