

## Medical Science - Head Start Activities



Dear Students,

Welcome to your Head Start Activities for **Medical Science**. Transitioning to Sixth Form is an exciting step and at Norbury High School for Girls, we are here to help you start strong. This Head Start booklet is designed to support your move into NHSG Sixth Form, giving you the chance to explore your chosen subjects, prepare for future success, and begin shaping your next chapter with confidence.

We look forward to working with you from September

**Mr Affram**

### Course details:

- Title: Medical Science
- Board: Pearson
- [Website](#)
- NHSG Course information linked [here](#)

In these activities and ideas you will find not only opportunities to stretch your thinking but also to help you discover what you are passionate about, both inside and beyond the classroom

## NHSG Sixth Form - Head Start

<p><b>Listen</b> to podcasts and talks, by subject experts and inspiring female leaders.</p>
<ul style="list-style-type: none"> <li>• Medical Women Talking Podcast: <a href="https://ucl.ac.uk/podcasts/apple.com">ucl.ac.uk+1podcasts.apple.com+1</a></li> <li>• Leading Ladies in Healthcare Podcast: <a href="https://healthpodcastnetwork.com/episodes/leading-ladies-in-healthcare/welcome-to-the-leading-ladies-in-healthcare-podcast/">https://healthpodcastnetwork.com/episodes/leading-ladies-in-healthcare/welcome-to-the-leading-ladies-in-healthcare-podcast/</a></li> <li>• Strong Women in Medicine Podcast: <a href="https://podcasts.apple.com">podcasts.apple.com</a></li> </ul>
<p><b>Watch</b> documentaries, interviews, or mini-lectures linked to your subjects to deepen your understanding.</p>
<ul style="list-style-type: none"> <li>• Why Medicine Often Has Dangerous Side Effects for Women   Alyson McGregor   TED Talks: <a href="https://www.youtube.com/watch?v=sJCBM9ajA5s">https://www.youtube.com/watch?v=sJCBM9ajA5s</a></li> <li>• How mRNA Medicine Will Change the World   Melissa J. Moore   TED Talks: <a href="https://www.youtube.com/watch?v=h5D3mv8ewCY">https://www.youtube.com/watch?v=h5D3mv8ewCY</a></li> </ul>
<p><b>Read</b> articles, essays, or books that challenge your thinking and expand your subject knowledge.</p>
<p>Nature: <a href="#">A guide to vaccinology: from basic principles to new developments</a>  Stanford: <a href="#">What is CRISPR? A bioengineer explains</a>  The Gaurdian: <a href="#">Climate crisis is accelerating antibiotic resistance across world, study says</a></p>
<p><b>Visit</b> local exhibitions, galleries, or workplaces that connect with your studies and open your eyes to future possibilities.</p>
<ul style="list-style-type: none"> <li>• The Francis Crick Institute in NW1 1AT: <a href="https://www.crick.ac.uk">https://www.crick.ac.uk</a></li> <li>• The Science Museum – Medicine: The Wellcome Galleries in SW7 2DD: <a href="https://www.sciencemuseum.org.uk">https://www.sciencemuseum.org.uk</a></li> <li>• Royal College of Physicians Museum in NW1 4LE: <a href="https://history.rcplondon.ac.uk">https://history.rcplondon.ac.uk</a></li> </ul>
<p><b>Go beyond</b> the essentials, to explore big questions and wider issues. What are the big challenges facing your subject?</p>
<p><b>Antimicrobial Resistance (AMR)</b></p> <ul style="list-style-type: none"> <li>• <b>Why it's a challenge:</b> Bacteria are evolving to resist antibiotics faster than we can develop new ones. This makes common infections harder; or even impossible; to treat.</li> <li>• <b>Big question:</b> How can we balance medical innovation with responsible antibiotic use to prevent a post-antibiotic era?</li> </ul> <p><b>Health Inequalities and Access to Care</b></p> <ul style="list-style-type: none"> <li>• <b>Why it's a challenge:</b> Not everyone has equal access to healthcare, diagnostics, and medical treatments. This includes disparities between countries, regions, and even within communities.</li> <li>• <b>Big question:</b> How can medical science and health systems reduce inequality and ensure fair access to care for all?</li> </ul> <p><b>Ethical and Social Implications of Emerging Technologies</b></p> <ul style="list-style-type: none"> <li>• <b>Why it's a challenge:</b> New developments like gene editing (CRISPR), AI in diagnostics, and personalized medicine are advancing rapidly; but raise serious ethical concerns.</li> <li>• <b>Big question:</b> How can we embrace technological innovation in medicine while protecting human rights and ethical values?</li> </ul>