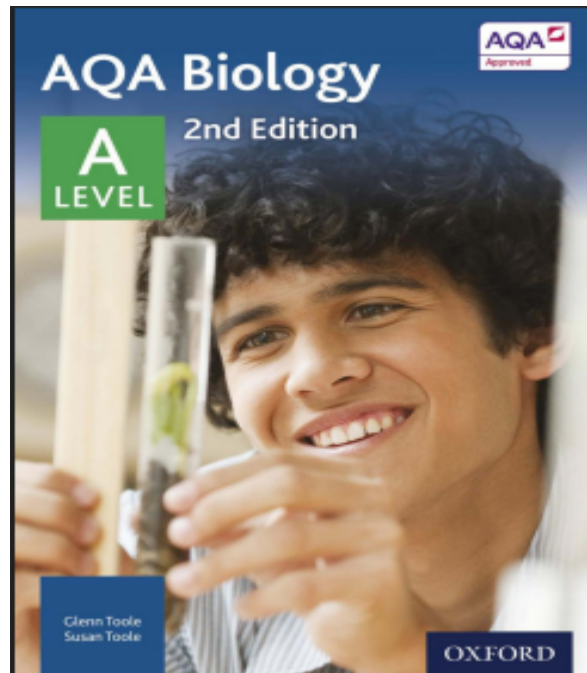


## Biology - Head Start Activities



Dear Students,

Welcome to your Head Start Activities for **Biology**. 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: AS and A Level Biology
- Level: A Level
- Board: AQA
- [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

**Listen** to podcasts and talks, by subject experts and inspiring female leaders.

- Seneca Learning: [Listen on Apple Podcasts](#)
- The A Level Biologist Podcast: [The A Level Biologist - Your Hub |](#)
- Inspiring Women Leaders Podcast: [Listen on Apple Podcasts](#)

**Watch** documentaries, interviews, or mini-lectures linked to your subjects to deepen your understanding.

- Miss Estruch: [https://www.youtube.com/results?search\\_query=miss+estruch+biology](https://www.youtube.com/results?search_query=miss+estruch+biology)
- Bozeman Science: <https://www.youtube.com/user/bozemanbiology>
- Ted-Ed & TED Talks: <https://ed.ted.com/lessons?category=biology>
- Khan Academy: <https://www.khanacademy.org/science/biology>

**Read** articles, essays, or books that challenge your thinking and expand your subject knowledge.

- Royal Society of Biology Magazine – *The Biologist*: <https://www.rsb.org.uk/biologist>
- Khan Academy: <https://www.khanacademy.org/science/biology>
- Physics & Maths Tutor: <https://www.physicsandmathstutor.com/biology-revision/a-level-aqa/#>

**Visit** local exhibitions, galleries, or workplaces that connect with your studies and open your eyes to future possibilities.

- Science Museum & Natural History Museum in South Kensington
- The Francis Crick Institute in St Pancras
- Royal Society of Biology near Victoria
- The Wellcome Collection in Euston
- Science Startups and Biotech Workspaces in Camden or Shoreditch

**Go beyond** the essentials, to explore big questions and wider issues. What are the big challenges facing your subject?

- **Ethics of Genetic Engineering and Biotechnology: CRISPR and Gene Editing** - Advances in gene editing technologies, like CRISPR, raise important ethical questions. For example, where do we draw the line with genetic modification? Should we allow the editing of human embryos or genetically modify crops and animals?
- **Conservation and Biodiversity Loss: Human Impact on Ecosystems** - The accelerating rate of biodiversity loss, driven by habitat destruction, pollution, climate change, and overexploitation of species, is a critical biological issue. How do we balance human development and conservation?
- **Environmental Health and Public Health: Global Health** - Emerging diseases, disparities in healthcare access, and the global nature of many biological threats (e.g., pandemics, antibiotic resistance) create complex biological and sociological challenges.