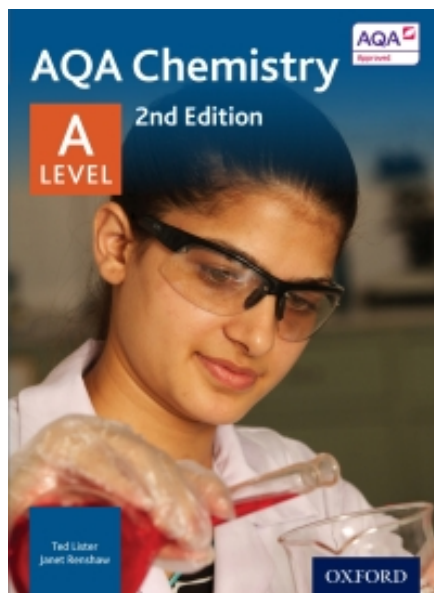


## Chemistry - Head Start Activities



Dear Students,

Welcome to your Head Start Activities for **Chemistry**. 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

**Ms Shonubi**

### Course details:

- Title: CHEMISTRY
- 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.

- [The Chemistry World Podcast – by the Royal Society of Chemistry](#)
- Topics: Cutting-edge research, chemistry in everyday life, analytical techniques.
- Notable female guests: Professor Polly Arnold (organometallic chemistry), Professor Dame Carol Robinson (mass spectrometry).
- Great for: Real-world applications of A-level topics and hearing from working chemists

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

- [MaChemGuy](#)
- Specifically tailored to AQA A-level Chemistry.
- Clear, concise tutorials and exam-focused explanations.
- Great for building both conceptual understanding and exam technique.

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

- [Royal Society of Chemistry](#)
- Why: Offers cutting-edge articles, case studies, and education resources tailored to A Level and university-level chemistry.
- What to read:
  - Chemistry World (accessible with free RSC membership for students)
  - Education in Chemistry (specifically tailored for A Level)
  - SpectraSchool (interactive IR and NMR tools)
- Use it to: Explore modern research and real-world applications of chemistry.

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

- [Science Museum \(London\)](#)
- Exhibit: Wonderlab: The Equinor Gallery – interactive experiments with chemical reactions, materials science, and energy.
- Relevance: Demonstrates concepts like rates of reaction, thermodynamics, and molecular structure.
- Website: [sciencemuseum.org.uk](http://sciencemuseum.org.uk)

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

- Sustainability and Green Chemistry
- How can chemistry reduce environmental harm?
- Can we design chemical processes that produce no waste?
- What role do chemists play in solving the climate crisis?