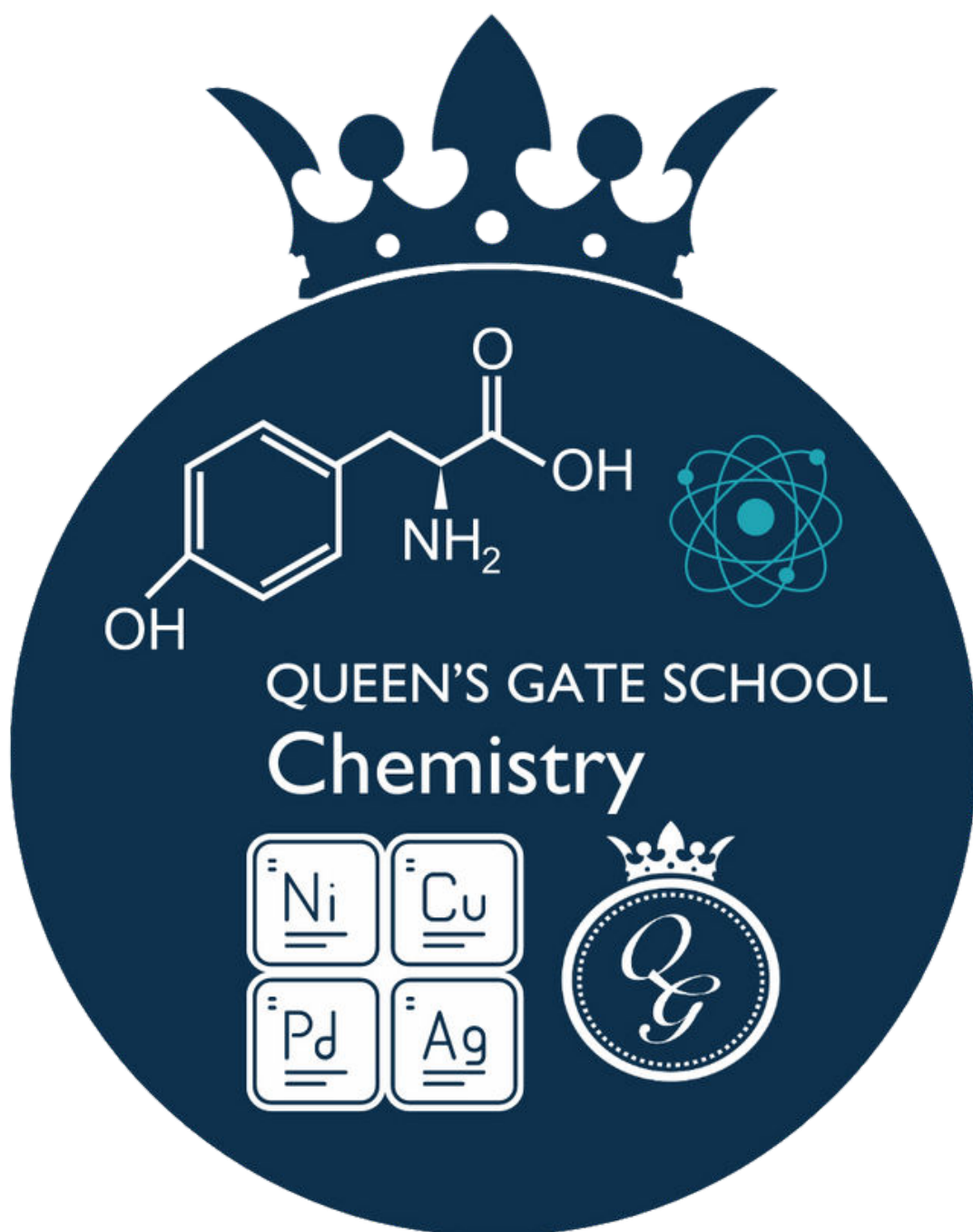


QUEEN'S GATE SCHOOL  
**CHEMISTRY**  
A-LEVEL GUIDE



# WHY STUDY CHEMISTRY

## A-LEVEL?

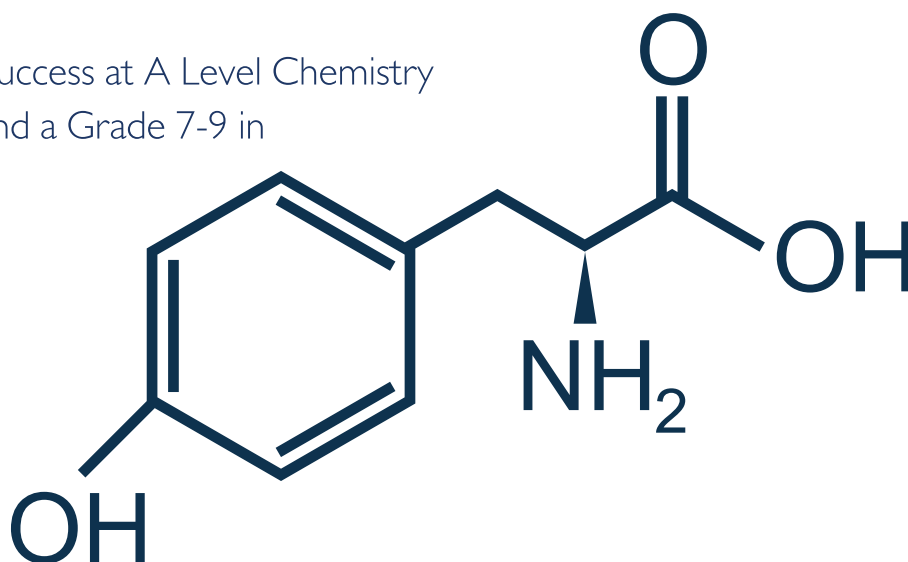
The discovery of penicillin, caffeine and blue dye for denim jeans - Chemistry has a lot to answer for. It will continue to be one of the most crucial fields of study in a world battling constant crises in human health, sustainability, energy and the environment.

## WHAT WILL YOU GAIN FROM STUDYING CHEMISTRY:

You will gain a better appreciation of the world around us. It will develop your ability to think logically and express yourself clearly. You will learn more about the contribution of Chemistry to our modern way of life such as medicine, materials or food. You will be better informed about some of the major current issues such as protection of the environment and energy resources.

## OUR EXPECTATIONS AND ACADEMIC RECOMMENDATIONS:

The best foundation for success at A Level Chemistry is a 7-9 grade at IGCSE, and a Grade 7-9 in mathematics.



# WHAT HIGHER EDUCATION/CAREERS COULD THIS SUBJECT LEAD TO?

You will be studying a subject which is highly rated by employers and universities. Chemistry drives our modern lives and so a qualification in Chemistry shows employers you have the skills and the knowledge to be part of the future.

## TOPICS COVERED

Exam board: Edexcel

| First Year                                                                                                                                                                                       | Second Year                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Atomic Structure</li><li>• Bonding</li><li>• Inorganic Chemistry</li><li>• The Periodic Table</li><li>• Organic Chemistry</li><li>• Energetics</li></ul> | <ul style="list-style-type: none"><li>• Acid-base equilibrium</li><li>• Transition metals</li><li>• Kinetics,</li><li>• Redox</li><li>• Equilibrium</li><li>• Modern Analytical techniques</li></ul> |

Throughout the two years of study there will be 16 core practicals required for the practical competency measure, a simple pass or fail.

Three final examinations will consist of:

| Paper                                                   | Duration           | Weighting |
|---------------------------------------------------------|--------------------|-----------|
| Paper 1: Advanced Inorganic and Physical Chemistry      | 1 hour 45 minutes  | 30%       |
| Paper 2: Advanced Organic and Physical Chemistry        | 1 hour 45 minutes  | 30%       |
| Paper 3: General and Practical Principles of Chemistry. | 2 hours 30 minutes | 40%       |

All papers include an assessment of mathematics.

Study Aids: Two textbooks in both years of the course by George Facer and Curtis, Hill and Hunt.