



Chemistry

Essential Information

Exam Board: AQA

Specification Code: 7405

Teachers: Dr M Green, Miss B Hayward, Mrs C

Reading

Head Start to A Level Chemistry - CGP

<https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/chemistry/cbr72-head-start-to-a-level-chemistry-with>

Essential Maths Skills for A Level Chemistry - CGP

<https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/chemistry/cmr71-a-level-chemistry-essential-maths>

Task to be completed:

Cisplatin is a useful drug. Research its structure, properties, and mechanisms of action.

Complete the following:

- Define the terms: isomer, stereoisomer, complex ion, polymer
- Outline the structures of Cisplatin and DNA
- Explain how transplatin is different from cisplatin
- Draw and annotate to explain how Cisplatin interacts with DNA
- Explain how Cisplatin is used in chemotherapy treatment.

Reference your sources. Know where you get your information.

To get you started:

<https://edu.rsc.org/resources/cisplatin-and-drug-design-16-18-years/4014011.article>

Extension: Research another example where isomerism has an impact on healthcare.

What else could I do to prepare?

Read

- * The Royal Society of Chemistry
- * Chemguide
- * Physics and maths tutor

Specification:

<https://www.aqa.org.uk/subjects/chemistry/a-level/chemistry-7405/specification/specification-at-a-glance>

Watch

<https://www.youtube.com/@AlleyChemistry>

Required practicals:

<https://www.youtube.com/watch?v=xBKyiXUhJy0&list=PLPzwPyIK2THuxZV3UBEOkuI6O2jG2oB8c>

Listen

<https://www.rsc.org/policy-evidence-campaigns/brought-to-you-by-chemistry-podcast/>

All tasks to be handed in during the first lesson of the subject in September