

## Advanced Information for 2022 exams

### *Curriculum intent and implementation for: CHEMISTRY*

#### Location of Advanced Information:

[Advanced information June 2022 - A-level Chemistry \(7405\) \(aqa.org.uk\)](https://www.aqa.org.uk/qualifications/a-level/chemistry/7405)

#### Summary of main content focus from the specification:

##### **Paper 1 7405/1 Inorganic and Physical Chemistry**

- 3.1.12 Acids and bases
- 3.1.2 Amount of substance
- 3.2.5 Transition metals
- 3.2.3 Group 7(17), the halogens
- 3.1.1 Atomic structure
- 3.1.3 Bonding
- 3.1.10 Equilibrium constant  $K_p$  for homogeneous systems

##### **Paper 2 7405/2 Organic and Physical Chemistry**

- 3.3.4 Alkenes (including Required Practical 10)
- 3.1.2 Amount of substance
- 3.3.13 Amino acids, proteins and DNA
- 3.1.6 Chemical equilibria, Le Chatelier's principle and  $K_c$
- 3.1.9 Rate equations
- 3.3.10 Aromatic chemistry
- 3.3.1 Introduction to organic chemistry

##### **Paper 3 7405/3**

(This is the synoptic paper, so these topics may be assessed in combination.)

- 3.1.8 Thermodynamics (including Required Practical 2)
- 3.3.1 Introduction to organic chemistry
- 3.2.5 Transition metals
- 3.3.3 Halogenoalkanes
- 3.1.9 Rate equations (including Required Practical 7)
- 3.1.2 Amount of substance (including Required Practical 4)
- 3.1.11 Electrode potentials and electrochemical cells

**Advice on synoptic links/other topics to provide supporting knowledge:**

Although other topics are not specifically outlined, they may appear in multiple choice questions, or where synoptic links can be made. Students are aware of this through teaching.

**Dates of final exams:**

Paper 1 – 13 June 2022, 2 hours, am

Paper 2 – 20 June 2022, 2 hours, am

Paper 3 – 23 June 2022, 2 hours, am

**Lesson and intervention schedule from mocks to exams:**

<b>Wk. Beg.</b>	<b>Lesson topics</b>	<b>Intervention schedule</b>
<b>07 Mar</b>	<i>Yr 13 Mock Exams</i>	
<b>14 Mar</b>	<i>Yr 13 Mock Exams</i>	
<b>21 Mar</b>	3.1.9 – Rate equations	Bonding & IMF (3.1.3) & Calculations (3.1.2)
<b>28 Mar</b>	3.1.9 – Rate equations	Halogenoalkanes (3.3.3) & Nomenclature (3.3.1)
<b>04 Apr</b>	<i>EASTER</i>	
<b>11 Apr</b>	<i>EASTER</i>	
<b>18 Apr</b>	<i>18/19 Apr Bank Holiday</i> 3.1.10 – K <sub>p</sub>	<i>Progress Day</i> – Atomic Structure (3.1.1) Alkenes (3.3.4)
<b>25 Apr</b>	Continue 3.1.10 - K <sub>p</sub>	Calculations (3.1.2)
<b>02 May</b>	<i>2 May Bank Holiday</i> 3.1.11 – Electrode Potentials & Electrochemical cells	Acids & Bases & calculations (3.1.12)
<b>09 May</b>	Complete 3.1.11	Thermodynamics/Calorimetry/Entropy
<b>16 May</b>	Supported revision	Equilibria & K <sub>c</sub> calculations