

# Isaac Physics Teacher CPD

Using isaacphysics.org for A Level Chemistry and Thermal Physics resources



### This session's objectives:

- Finding Isaac Chemistry resources: <a href="https://isaacphysics.org/chemistry">https://isaacphysics.org/chemistry</a>
- ➤ Using the Syllabus maps to find syllabus-appropriate questions: <a href="https://isaacphysics.org/pages/syll">https://isaacphysics.org/pages/syll</a> map chem
- Using the Question Finder to select questions by topic and level
- ➤ Using the Chemistry Equation Editor: <a href="https://youtu.be/zeBHUkVeKPE">https://youtu.be/zeBHUkVeKPE</a>
  - https://isaacphysics.org/questions/ch\_editor\_1
  - https://isaacphysics.org/questions/ch\_editor\_2
- Using the Structural Formula Editor: <a href="https://jsme-editor.github.io/dist/JSME\_test.html">https://jsme-editor.github.io/dist/JSME\_test.html</a>
- ➤ Your questions!



## **Chemistry book: pdf (chapters 1-2)**

#### Introducing Isaac Chemistry Resources

https://isaacphysics.org/chemistry





All the questions and use of the site is completely FREE for all, students and teachers alike.

Like Isaac Physics, Isaac Chemistry resources will focus on developing problem solving skills in chemistry from A-level through to the transition to university. Also like Isaac Physics, we have commissioned a mastery book for pre-university physical Chemistry.

Mastery Book

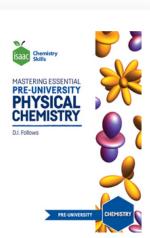
A Level Chemistry Questions

For Teachers

Developing mastery of esselve pre-university chemistry by Dr David Follows

- The first two chapters of this book med at A-level students studying Chemistry, are available to download as a pdf.
- The complete first edition is now available for £1 and is purchasable from Isaac Books
- See questions from the Mastering Chemistry skills book. Isaac marks them for you!
- The values for relative atomic masses and the constants used in the book are those given on this Periodic Table
- For teachers: See school syllabus maps for the pages of this book.

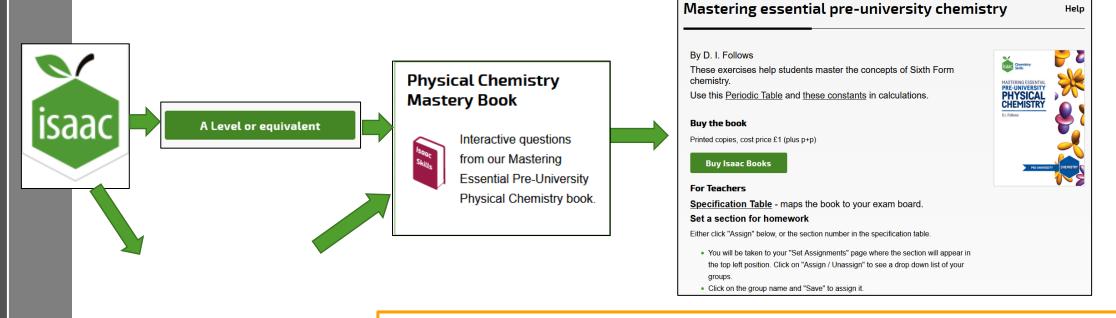
Free Registration





## Using the Syllabus Maps to find syllabusappropriate questions

> Follow this path to find the specification table for A Level:



Apple/Learn A Level or Learn/A Level Resources/Physics Chemistry Mastery Book/Specification table

https://isaacphysics.org/pages/syll\_map\_chem (copy into SOW for ref)
7 English and Welsh specifications are here – we are planning to include the
Scottish and Irish specifications as soon as possible



## A Level Physical Chemistry Syllabus Maps

> Find syllabus-appropriate questions:

**Home** > Mastering Physical Chemistry Syllabus Maps

#### Mastering Physical Chemistry Syllabus Maps

https://isaacphysics.org/pages/syll\_map\_chem





You can set each page of the book as homework in 2 clicks! When logged on as a teacher, click on the page you wish to assign (e.g. A1) and you will be taken to your set assignments page with A1 as the top left box ready to assign to as many groups as you wish.

		OCR A (H032/H432)	OCR B (H033/433)	AQA	Edexcel	Eduqas	CIE Pre-U	IE Chem
A	Formulae & Equations							
<u>A1</u>	Empirical formulae	2.1.3	EL(b)	3.1.2.4	Topic 5	C1.3	A4.1	1.
<u>A2</u>	A_r & M_r and molecular formula	2.1.3	EL(a)	3.1.1.2 / 3.1.2.1	Topic 1	C1.3	A4.1	1.



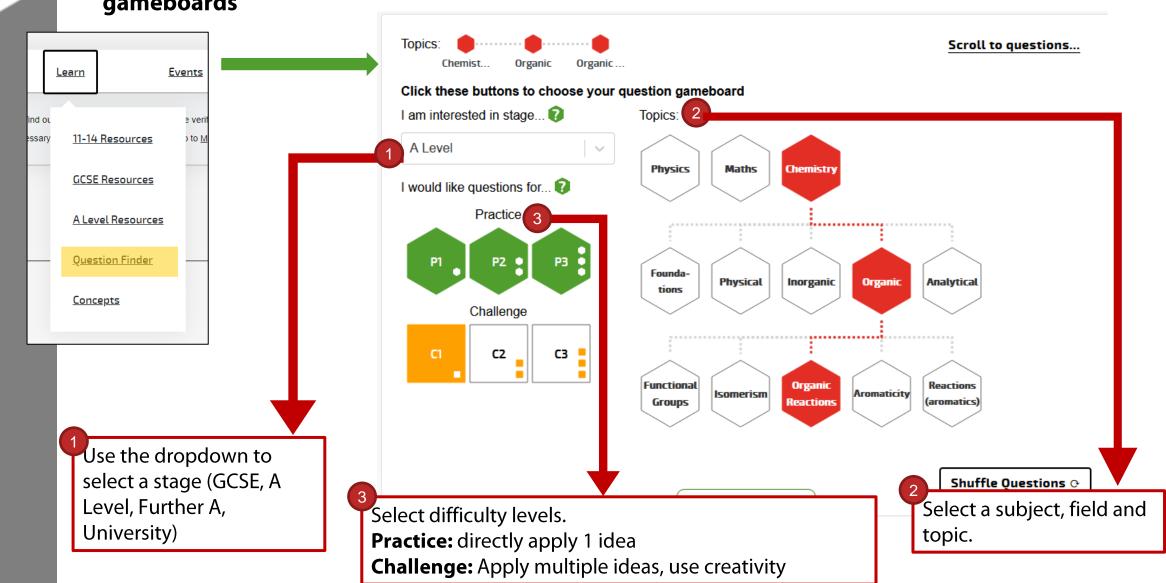
## **Question Finder**

Use the Ouestion Finder to create

gameboards

#### Route

Learn/Question finder

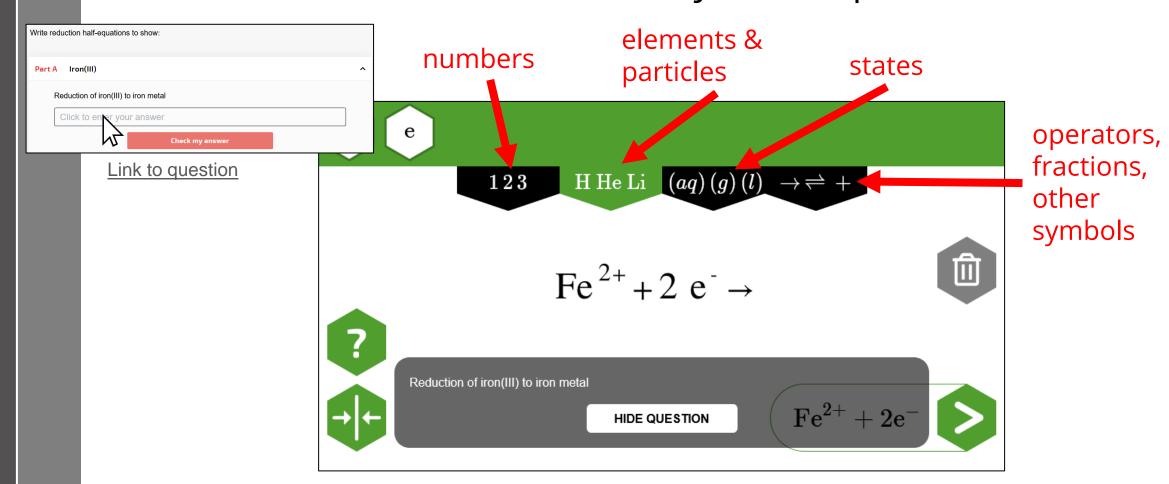




## **Equation editor: Chemistry**



> Use mouse/touch to answer symbolic questions

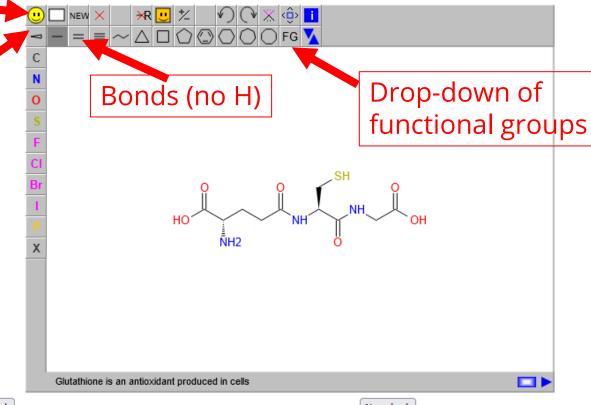


### Structural Formula editor

JSME test page

Click to show smile string (paste into answer box)

Can show stereoisomers



Old look	New look
Turn on antialias	Turn off antialias
Turn on antialias for the molecular drawing area	Turn off antialias for the molecular drawing are
Drawing area line width: 2.0	set line width
Drawing area font size: 12	set font size
Drawing area scale: 1.5	set scale get scale
Non drawing area scale: 1.5	set scale get scale
Set another background color for the GUI frame and the dialog boxes	set predefined color

https://jsme-editor.github.io/dist/JSME\_test.html