

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCE

Chemistry

Advanced

Unit 5: General Principles of Chemistry II – Transition Metals and Organic Nitrogen Chemistry (including synoptic assessment)

Wednesday 19 June 2013 – Morning

Time: 1 hour 40 minutes

Paper Reference

6CH05/01R

You must have: Data Booklet

Candidates may use a calculator.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*

Information

- The total mark for this paper is 90.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed – *you should take particular care with your spelling, punctuation and grammar, as well as the clarity of expression, on these questions.*
- A Periodic Table is printed on the back cover of this paper.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ➤

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Edexcel June 2013 Question Papers

David Spiegelhalter



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The Art of Uncertainty David Spiegelhalter, 2025-03-04 Named a Best Book of the Year by Forbes and The Economist From our greatest living statistical communicator Tim Harford comes an invaluable data driven guide for understanding and learning to embrace risk and uncertainty in our daily lives How dangerous is our diet How much of sports falls into the realm of luck When authorities categorize a given event as highly likely how likely is that really Whether we re trying to decide if the benefits of a new medication are worth the chance of side effects or if artificial intelligence truly threatens humanity our lives are riddled with uncertainties both everyday and existential yet it can be difficult to know how to properly weigh all those unknowns Luckily for us renowned statistician David Spiegelhalter has spent his career dissecting data to resolve the apparently random and decode the many decisions we face with imperfect information In The Art of Uncertainty he shows how we can become better at dealing with what we don t know to make smarter choices in a world so full of puzzling variables In lucid lively prose Spiegelhalter guides us through the principles of probability illustrating how they can help us think more analytically about everything from medical advice to sports to climate change forecasts He demonstrates how taking a mathematical approach to phenomena we might otherwise attribute to fate or luck can help us sort hidden patterns from mere coincidences better evaluate cause and effect and predict what s likely to happen in the

future Along the way we learn how a misinterpretation of a probability contributed to the infamous Bay of Pigs fiasco why a ship twice the size of the Titanic sank without a trace and why we can be so confident that no two properly shuffled decks of cards have ever been in the same order Sparkling with wit and fascinating real world examples this is an essential guide to navigating uncertainty while also retaining the humility to admit what we don't or simply cannot know **Radical Philosophy**, 2013 **Improving Foreign Language Teaching** Ernesto Macaro, Suzanne Graham, Robert Woore, 2015-09-16 Improving Foreign Language Teaching provides teachers and teacher trainers with a research based structure for the effective teaching and assessment of second languages As well as outlining a model for teacher development the book identifies and exemplifies eight key principles for effective language learning which can be used to guide curriculum design and decisions about classroom pedagogy Improving Foreign Language Teaching also presents practical activities related materials and guidance on how student progress can be monitored and recorded Based on the research of the authors and other international experts together with the work of a consortium established by the authors and teachers in a range of secondary schools the book focusses on the development of language skills and communicative competence It also proposes an assessment system which better reflects how learners progress in language learning than current models Taking as its starting point the challenge of a curriculum in flux and complex pedagogical approaches this book offers clear research informed guidance for effective planning teaching and learning It will be essential reading for all those concerned with the improvement of language learning and teaching in the secondary classroom The Times Index, 2007 Indexes the Times and its supplements

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