

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

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Forename(s)

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Candidate signature

I declare this is my own work.

## GCSE CHEMISTRY

Higher Tier Paper 1

# H

Monday 22 May 2023

Morning

Time allowed: 1 hour 45 minutes

### Materials

For this paper you must have:

- a ruler
- a scientific calculator
- the periodic table (enclosed).

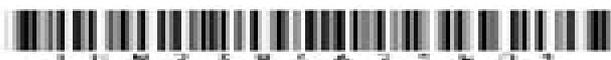
### Instructions

- Use black ink or black ball-point pen.
- Pencil should only be used for drawing.
- Fill in the boxes at the top of this page.
- Answer all questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.
- In all calculations, show clearly how you work out your answer.

### Information

- The maximum mark for this paper is 100.
- The marks for questions are shown in brackets.
- You are expected to use a calculator where appropriate.
- You are reminded of the need for good English and clear presentation in your answers.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
<b>TOTAL</b>	



3 1 0 2 5 8 4 6 2 1 4 0 1

# Xtreme Chemistry Papers

**Kerry Ten Kate, Sarah A Laird**



## **Xtreme Chemistry Papers:**

**Paper Technology** ,2005     *Advances in Computational Methods in Sciences and Engineering 2005 (2 vols)* Theodore Simos,George Maroulis,2022-05-04 This volume brings together selected contributed papers presented at the International Conference of Computational Methods in Science and Engineering ICCMSE 2005 held in Greece 21 aEURO 26 October 2005 The conference aims to bring together computational scientists from several disciplines in order to share methods and ideas The ICCMSE is unique in its kind It regroups original contributions from all fields of the traditional Sciences Mathematics Physics Chemistry Biology Medicine and all branches of Engineering It would be perhaps more appropriate to define the ICCMSE as a conference on computational science and its applications to science and engineering Topics of general interest are Computational Mathematics Theoretical Physics and Theoretical Chemistry Computational Engineering and Mechanics Computational Biology and Medicine Computational Geosciences and Meteorology Computational Economics and Finance Scientific Computation High Performance Computing Parallel and Distributed Computing Visualization Problem Solving Environments Numerical Algorithms Modelling and Simulation of Complex System Web based Simulation and Computing Grid based Simulation and Computing Fuzzy Logic Hybrid Computational Methods Data Mining Information Retrieval and Virtual Reality Reliable Computing Image Processing Computational Science and Education etc More than 800 extended abstracts have been submitted for consideration for presentation in ICCMSE 2005 From these 500 have been selected after international peer review by at least two independent reviewers

**The Mount Holyoke** ,1908     **Energy Materials 2014**  
The Minerals, Metals & Materials Society (TMS),2017-03-16     *The Guardians' Daughter* A.M. McPherson,2021-09-21 In a world full of superhuman abilities not all dream of being a hero Ember s life is turned upside down the day villains brutally murder her parents No one comes to their aid including their comrades the other Guardians She loses her trust in the supposed heroes and vows to never follow in her parents footsteps A dark secret looms in Aiden s past and he aspires to become a Guardian as a way to cope At university he meets Ember and an undeniable spark ignites between them But Aiden wrestles with his developing feelings for her and as they grow closer unexpected dangers threaten their bond including his secret Aiden struggles to open up about his past to Ember since it would reveal a troubling link to her parents murders and Ember finds herself questioning everything she believes to be true about Guardians Not only could Aiden s secret tear them apart but it may also lay the foundation for the Guardians undoing A M McPherson breaks onto the literary scene with a coming of age story full of romance suspense and mystery Fans of Renegades and My Hero Academia will enjoy this fresh take on a superhero world

*The Guardians' Secret* A.M. McPherson,2024-04-16 Villains aren t the only ones good at keeping secrets Months ago Black Mold and his gang of villains attacked the city of Stalwarth leaving mass destruction in their wake Little did Ember and Aiden know it was just the beginning of the villains plans Ember is determined to uncover the truth about her parents murders But as she unearths secret after secret Ember wonders who she can trust Are the

Guardians truly selfless heroes or are they just as conniving as the villains they fight Meanwhile Aiden's dream of becoming a Guardian is turning into a nightmare His power grows alongside his anger Is he cracking under the pressure or is something more nefarious at play Ember and Aiden promised each other nothing would tear them apart as they try to solve the secrets surrounding them But to keep that promise they'll have to risk the lives of those they love the most

**Proceedings of the 2014 Energy Materials Conference** The Minerals, Metals & Materials Society (TMS), 2015-04-06 This DVD contains a collection of papers presented at EnergyMaterials 2014 a conference organized jointly by The Chinese Society for Metals CSM and The Minerals Metals Materials Society TMS and held November 4-6 2014 in Xi'an Shaanxi Province China With the rapid growth of the world's energy production and consumption the important role of energy materials has achieved worldwide acknowledgement Material producers and consumers constantly seek the possibility of increasing strength improving fabrication and service performance simplifying processes and reducing costs Energy Materials 2014 has provided a forum for academics researchers and engineers around the world to exchange state of the art development and information on issues related to energy materials The papers on the DVD are organized around the following topics Materials for Coal Based Systems Materials for Gas Turbine Systems Materials for Nuclear Systems Materials for Oil and Gas Materials for Pressure Vessels

Scientific American, 1864 *The Commercial Use of Biodiversity* Kerry Ten Kate, Sarah A Laird, 2019-09-18 Originally published in 1999 The Commercial Use of Biodiversity examines how biodiversity and the genetic material it contains are now as valuable resources Access to genetic resources and their commercial development involve a wide range of parties such as conservation and research institutes local communities government agencies and companies Equitable partnerships are not only crucial to conservation and economic development but are also in the interests of business and often required by law In this authoritative and comprehensive volume the authors explain the provisions of the Convention on Biological Diversity on access and benefit sharing the effect of national laws to implement these and aspects of typical contracts for the transfer of materials They provide a unique sector by sector analysis of how genetic resources are used the scientific technological and regulatory trends and the different markets in Pharmaceuticals Botanical Medicines Crop Development Horticulture Crop Protection Biotechnology in fields other than healthcare and agriculture and Personal Care and Cosmetics Products This will be an essential sourcebook for all those in the commercial chain from raw material collection to product discovery development and marketing for governments and policy makers drafting laws on access and for all the institutions communities and individuals involved in the conservation use study and commercialisation of genetic resources

**Advanced Materials & Processes**, 1992 *Addresses in Commemoration of Josiah Parsons Cooke* American Academy of Arts and Sciences, 1895 **Addresses in Commemoration of Josiah Parsons Cooke, LL.D. Late President of the American Academy of Arts and Sciences** American Academy of Arts and Sciences, 1895 *Astrobiology*, 2003

Energy Research at DOE National Research Council, Division on Engineering and Physical Sciences, Board on Energy and

Environmental Systems, Committee on Benefits of DOE R&D on Energy Efficiency and Fossil Energy, 2001-12-12 In legislation appropriating funds for DOE's fiscal year FY 2000 energy R D budget the House Interior Appropriations Subcommittee directed an evaluation of the benefits that have accrued to the nation from the R D conducted since 1978 in DOE's energy efficiency and fossil energy programs In response to the congressional charge the National Research Council formed the Committee on Benefits of DOE R D on Energy Efficiency and Fossil Energy From its inception DOE's energy R D program has been the subject of many outside evaluations The present evaluation asks whether the benefits of the program have justified the considerable expenditure of public funds since DOE's formation in 1977 and unlike earlier evaluations it takes a comprehensive look at the actual outcomes of DOE's research over two decades *Science & Technology Review*, 2009  
Medical Record George Frederick Shrady, Thomas Lathrop Stedman, 1920 **American Photography**, 1921  
**Entomology Abstracts**, 2001 **McGraw-Hill Encyclopedia of Science & Technology**, 1987 **ASM Handbook**  
ASM International. Handbook Committee, 1990 These volumes cover the properties processing and applications of metals and nonmetallic engineering materials They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria

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