

A2 Biology: Paper 5

Dilutions

The student used the 250 mmol dm^{-3} KCl solution to make 100 cm^3 of four other concentrations by reducing the concentration by 50 mmol dm^{-3} each time.

Describe a procedure that the student could use to prepare these four concentrations. (3M)

Conc / mmol dm^{-3}	Vol of 250 mmol dm^{-3} KCl solution / cm^3	Vol of distilled water added / cm^3
250	100	0
200	80	20
150	60	40
100	40	60
50	20	80

Measure volume of solution and distilled water to be added by using a **measuring cylinder**.

Carry out a **serial dilution** to achieve the following concentrations.

Pour measured volume into a beaker and **stir** using a glass rod.

Effect of concentrations on _____

Describe a method that the student could use to investigate the effect of different concentrations of KCl on the opening of stomata.

The description of your method should be detailed enough for another person to follow and should not repeat the details from (a)(i) of how to dilute the 250 mmol dm^{-3} solution of KCl.

1. Put epidermal strips into solutions in Petri dishes. Use distilled water for one of the Petri dish to act as a control.
2. Cut them to equal length by using a 15 cm ruler and a scalpel.
3. Keep them in the dark when in solution and use a water bath to prevent evaporation. Cover Petri dish with a lid to prevent evaporation.
4. Mount them on a slide and use a light microscope with the same magnification to count the number of stomata.
5. Record the number of stomata that are open.
6. Make 3 counts on each leaf strip and take a mean to identify anomalies.
7. It is a low risk experiment but wear gloves to avoid contact with leaves in case of allergy to plants.

Cie Cambridge Biology A2 Paper 5

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Braben**



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OCR AS/A Level Year 1 Biology A Student Guide: Module 3 and 4 Richard Fosbery, 2016-05-02 Exam Board OCR Level AS A level Subject Biology First Teaching September 2015 First Exam Summer 2016 Reinforce students understanding throughout their course with clear topic summaries and sample questions and answers to help your students target higher grades Written by experienced examiner Richard Fosbery our Student Guides are divided into two key sections content guidance and sample questions and answers Content guidance will Develop students understanding of key concepts and terminology this guide covers modules 3 and 4 exchange and transport biodiversity evolution and disease Consolidate students knowledge with knowledge check questions at the end of each topic and answers in the back of the book Sample questions and answers will Build students understanding of the different question types so they can approach questions from modules 3 and 4 with confidence Enable students to target top grades with sample answers and commentary explaining exactly why marks have been awarded GCE O Level Examination Past Papers with Answer Guides: Biology India Edition Cambridge International Examinations, 2003-12-16 Environmental Science Class XII *Assessing Academic Literacy in a Multilingual Society* Albert Weideman, John Read, Theo du Plessis, 2020-11-02 South African universities face major challenges in meeting the needs of their students in the area of academic language and literacy The dominant medium of instruction in the universities is English and to a much lesser extent Afrikaans but only a minority of the national population are native speakers of these languages Nine other languages can be media of instruction in schools which makes the transition to tertiary education difficult enough in itself for students from these schools The focus of this book is on procedures for assessing the academic language and literacy levels and needs of students not in order to exclude students from higher education but rather to identify those who would benefit from further development of their ability in order to undertake their degree studies successfully The volume also aims to bring the innovative solutions designed by South African educators to a wider international audience **CIE Collection 1999** International Commission on Illumination, 1999 **Educational Times**, 1890 **Catalog of the Library of the Academy of Natural Sciences of Philadelphia** Academy of Natural Sciences of Philadelphia. Library, 1972 **Discomfort Glare in Interior Lighting** International Commission on Illumination, 1995 **An Analytic Model for Describing the Influence of Lighting Parameters Upon Visual Performance**, 1981 **University of California Union Catalog of Monographs Cataloged by the Nine Campuses from 1963 Through 1967: Authors & titles** University of California (System). Institute of Library Research, University of California, Berkeley, 1972 Bibliographic Guide to Conference Publications New York Public Library. Research Libraries, 1979 Vols for 1975 include publications cataloged by the Research Libraries of the New York Public Library with additional entries from the Library of Congress MARC tapes **Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971** New York Public Library. Research Libraries, 1979 *Biological Abstracts* Jacob

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National Union Catalog ,1953 **Library of Congress Catalogs** Library of Congress,1970 **Who's Who in Science and Engineering 2008-2009** Who's Who Marquis,Marquis Who's Who,2007-12 **Cambridge International AS & A Level Biology: Exam Success Guide** Beverlyn Nathan,Padmajyothi Sripada,Richard Fosbery,Helen Shaw Braben,2021-06-10 The Cambridge International AS A Level Biology Exam Success Guide brings clarity and focus to exam preparation with detailed and practical guidance on raising attainment The guide helps students to recap content through easy to digest chunks apply knowledge with targeted revision activities review and reflect on work done and raise their grades with sample answers examiner commentary and exam style practice The Cambridge International AS A Level Biology Exam Success Guide is written by Richard Fosbery an examiner teacher and teacher trainer and students can benefit from his expertise and experience in what they need to help them succeed in their exams Other resources include a Student Book which offers a rigorous yet accessible approach for covering the whole syllabus and an Enhanced Online Student Book which provides extra digital hotspots including downloadable questions and additional activities These are also available in a great value Print Enhanced Online Student Book Pack **CAIE ESG ASAL BIO SBWL 2E** PHILIP GARDOM-HULME,2020-12-17

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