

Answers to examination-style questions

Answers	Marks	Examiner's tips
1 (a) diffusion/movement of water; through a partially-permeable membrane; from less negative to more negative/from higher water potential to lower water potential;	3	If you find water potential difficult, try drawing a numbered line starting at 0 and going down with negative numbers. Pure water has a water potential of 0. All solutions have a negative water potential.
(b) (i) 5.55 cm (<i>allow 5.5 or 5.6 only if supported by correct working</i>); $5/0.9 = 5.55$;	2	Correct answer = 2 marks. Correct working but incorrect answer = 1 mark. Always show which numbers you are using for a calculation. You will be credited for the correct working even if you make a mistake working out the final answer.
(ii) 1. T anywhere to left of 0.3 M; 2. W at 0.3 M;	1	
2 (a) (i) microvilli (<i>reject brush border</i>);	1	
(ii) increased surface area (for diffusion);	1	
(b) (i) 90 000 $9 \times 1000/0.1 = 90\,000$;	2	Correct answer = 2 marks. Correct working but incorrect answer = 1 mark. Use the scale bar. Measure the length using a ruler. Length of bar = 9 mm, convert to micrometres by multiplying by 1000 then divide by stated length of scale bar.
(ii) electron microscope has a greater resolving power/objects closer together can be distinguished; electron (beams) have a shorter wavelength;	2	
(c) short diffusion pathway/short pathway to the centre/large surface area to volume ratio for faster/more diffusion;	1	
3 (a) passive/do not require energy/ATP; movement down a concentration gradient/ by diffusion; go through phospholipid (bilayer)/not by protein/carriers;	2	Make sure your answers are correct for oxygen and water. If a word is in bold print, read it very carefully! It is like that for a reason!
(b) active transport; occurs when oxygen present because energy/respiration required <i>OR</i> against a concentration gradient because there is no uptake in curve Z;	2	As soon as you see oxygen or respiration involved with transport, you should be thinking about active transport as this is the only process that uses energy.

Aqa Chemistry Nelson Thornes Answers Unit 2

Lawrie Ryan



Aqa Chemistry Nelson Thornes Answers Unit 2:

A-Level Chemistry E. N. Ramsden, 2000 This textbook has been updated to cover the new specifications for AS and A2 Chemistry and improved with new features and rewritten material to enhance learning and increase accessibility It covers all the main specifications for the English and Welsh Awarding Bodies and should be particularly suitable for students approaching A Level from GCSE Science Double Award This answer key is designed to support the core book and contains suggested answers worked solutions to the checkpoints and examination questions in the core book also synoptic questions for further practice complete with suggested answers and worked solutions to help develop confidence [Top Chemistry Grades for You Aqa Mod](#) Lawrie Ryan, 2005 These full colour Revision Guides provide board specific support for GCSE Science and are designed specifically to raise standards They are the ONLY revision books to support EVERY aspect of revision for GCSE Science students [Calculations for GCSE Chemistry](#) Eileen Ramsden, 2002 This fully revised edition is in line with the revised 2002 National Curriculum requirements and focuses on quantitative chemistry in science Written to match all major GCSE specifications the text covers all types of numerical questions from first principles For each topic a concise treatment of the underlying theory is followed by problems grouped into three sections of increasing difficulty Calculations based on round number molar masses are included to enable students to concentrate on the chemical basis of the problems rather than arithmetical manipulation **Biology** Nick Paul, 2002 This set of resources focuses on raising levels of interest and achievement in Foundation GCSE candidates It covers all major specifications preparing students for Single and Double Award sciences It has been developed from the ground up rather than using lower tier material from other resources Careful attention has been given to the language levels used Each section starts in a real world context before introducing the underlying scientific theories Exam questions are included throughout the text **Physics** Martin Roberts, 2002-10-24 The three full colour texts place science in everyday contexts through carefully chosen case studies The series offers practical work including investigations assignments homework discussion points and questions to reinforce and assess students learning It is supported by teacher resource material in paper based format or electronic versions on CD ROMs *Advanced Chemistry for You* Lawrie Ryan, 2000 Advanced Chemistry for You has been carefully designed to be interesting and motivating to the AS A2 student with features that make it highly supportive of individual learning Written by an experienced author team with the same straightforward approach as the successful New for You GCSE series *Spotlight Science Teacher Support Pack 9* Keith Johnson, Lawrie Ryan, Sue Adamson, 2004 This Framework Edition Teacher Support Pack offers support and guidance **The School Science Review**, 2002 **Chemistry for You** Lawrie Ryan, 2001 Chemistry For You has been written for a wide range of middle ability students who will benefit from its motivational style leading them to better achievement at GCSE This edition offers comprehensive coverage of the new GCSE specifications *Calculations for A-level Chemistry* E. N. Ramsden, 2001 Aiming to match the various specifications this

book gives explanations worked examples and practice in chemistry calculations It includes a comprehensive mathematics foundation section Work on formulae and equations the mole volumetric analysis and other key areas are included It is useful as a course book as well as for exam practice

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