

Please write clearly in	block capitals.		
Centre number		Candidate number	
Surname			
Forename(s)			
Candidate signature)

Level 3 Certificate and Extended Certificate in Applied Science **KEY CONCEPTS IN SCIENCE**

Unit Number: ASC1

Section C – ASC1/P (Physics)

Thursday 22 June 2017 Morning

Time allowed: 1 hour 30 minutes. You are advised to spend approximately 30 minutes on this section

Materials

For this paper you must have:

- a calculator
- Formula sheet

Instructions

- Use black ink or black ball-point pen.
- Answer all questions in each section.
- You must answer the questions in the spaces provided.
- Do not write outside the box around each page or on blank pages.
- Do all rough work in this book.
- Cross through any work you do not want to be marked.
- The total time for all three sections of this paper is one-and-a-half hours.

Information

- You will be provided with a copy of the formula sheet.
- There are three sections in this paper:
- Section A Biology Section B Chemistry Section C Physics.
- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60 and the maximum mark for this section is 20.

Advice

Read each question carefully.



For Examiner's Use							
Examiner's Initials							
Question	Mark						
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TOTAL							



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0 1 . 2	State the name of the electrical component which the technician was in	nvestigating. [1 mark]
	TICK (✓) one box.	
	A Semi-conducting diode	
	B Filament lamp	
	C Thermistor	
	D Resistor at constant temperature	
0 1 . 3	Calculate the resistance of the electrical component when the voltage it is 2 V.	across
	State the correct unit in your answer.	[2 marks]
	Resistance =	
0 1 . 4	As the voltage across the electrical component increases, its resistant	e
		[3 marks]

Turn over ►







02.2	Explain how the 'crumple zone' can reduce the chance of serious injury crash.	in a [4 marks]
0 2 . 3	Describe the energy changes as the car crashes.	[3 marks]

Turn over ►

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separate booklet rather than including them on the examination paper or support materials. This booklet is published after each examination series and is available for free download from www.aqa.org.uk after the live examination series.

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