

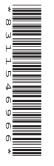
# Tuesday 19 October 2021 – Afternoon

# AS Level Further Mathematics B (MEI)

### Y415/01 Mechanics b

## Printed Answer Booklet

#### Time allowed: 1 hour 15 minutes



Υοι	ı must	have:
• Q	uestion	Paper

- Y415/01 (inside this document) • the Formulae Booklet for Further Mathematics B
- (MEI)
- a scientific or graphical calculator



Please write clearly in black ink. Do not write in the barcodes.							
Centre number				Candidate number			
First name(s)							
Last name							

#### **INSTRUCTIONS**

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided in the Printed Answer Booklet. You can use extra paper if you need to, but you must clearly show your candidate number, the centre number and the question numbers.
- Answer all the questions.
- · Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.
- Give your final answers to a degree of accuracy that is appropriate to the context.
- The acceleration due to gravity is denoted by  $gm s^{-2}$ . When a numerical value is needed use q = 9.8 unless a different value is specified in the question.

#### **INFORMATION**

• This document has **12** pages.

#### ADVICE

• Read each question carefully before you start your answer.

<b>1</b> ( <b>a</b> )	
	(answer space continued on next page)

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4

<b>2(b)</b>	

5

<b>3(b)</b>	
<b>4</b> (a)	
<b>4</b> (a)	
<b>4(b)</b>	
4(0)	
	(answer space continued on next page)

<b>4(b)</b>	(continued)
<b>4(c)</b>	
<b>4(d)</b>	

<b>5</b> (a)	
<b>5(b)</b>	
	(answer space continued on next page)

5(b)	(continued)
5(c)	
5(d)	
5(e)	

<b>6</b> (a)	

6(b)	

<b>6(c)</b>	
6(d)	

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