



Oxford Cambridge and RSA

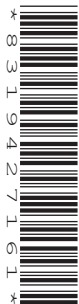
# Wednesday 21 October 2020 – Afternoon

## A Level Further Mathematics A

### Y543/01 Mechanics

#### Printed Answer Booklet

**Time allowed: 1 hour 30 minutes**



**You must have:**

- Question Paper Y543/01 (inside this document)
- the Formulae Booklet for A Level Further Mathematics A
- a scientific or graphical calculator



Please write clearly in black ink. **Do not write in the barcodes.**

Centre number

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Candidate number

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First name(s)

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Last name

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### 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**. If you need extra space, use the lined pages at the end of the Printed Answer Booklet. The question numbers must be clearly shown.
- 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 non-exact numerical answers correct to 3 significant figures unless a different degree of accuracy is specified in the question.
- The acceleration due to gravity is denoted by  $g \text{ m s}^{-2}$ . When a numerical value is needed use  $g = 9.8$  unless a different value is specified in the question.

### INFORMATION

- This document has **16** pages.

### ADVICE

- Read each question carefully before you start your answer.

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**1(a)**


**1(b)**


**1(c)**






<b>4(a)</b>	
<b>4(b)</b>	
<b>4(c)</b>	

<b>4(d)</b>	
<b>4(e)</b>	
<b>4(f)</b>	

<b>5(a)</b>	
<b>5(b)</b>	
<b>5(c)</b>	
<b>5(d)</b>	



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<b>7(a)</b>	
<b>7(b)</b>	





<b>8(b)</b>	<b>(continued)</b>
<b>8(c)</b>	
<b>8(d)</b>	
<b>8(e)</b>	

