

**OCR**

Oxford Cambridge and RSA

Accredited

**AS Level Further Mathematics B (MEI)****Y415 Mechanics b**

Printed Answer Booklet

**Date – Morning/Afternoon**

Time allowed: 1 hour 15 minutes

**OCR supplied materials:**

- Printed Answer Booklet
- Formulae Further Mathematics B (MEI)

**You must have:**

- Printed Answer Booklet
- Formulae Further Mathematics B (MEI)
- Scientific or graphical calculator



First name

Last name

Centre  
numberCandidate  
number**INSTRUCTIONS**

- Use black ink. HB pencil may be used for graphs and diagrams only.
- Complete the boxes provided on the Printed Answer Booklet with your name, centre number and candidate number.
- Answer **all** the questions.
- **Write your answer to each question in the space provided in the Printed Answer Booklet.**
- Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the bar codes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.
- The acceleration due to gravity is denoted by  $g \text{ m s}^{-2}$ . Unless otherwise instructed, when a numerical value is needed, use  $g = 9.8$ .

**INFORMATION**

- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is used. You should communicate your method with correct reasoning.
- The Printed Answer Booklet consists of **12** pages. The Question Paper consists of **8** pages.

<b>1 (i)</b>	
<b>1 (ii)</b>	

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<b>1 (iii)</b>	

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<b>2 (i)(A)</b>	
<b>2 (i)(B)</b>	
	<b>2 (ii)</b>

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<b>3 (i) (A)</b>	
<b>3 (i) (B)</b>	
<b>3 (ii)</b>	

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4 (i)

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<b>4 (ii)</b>	
<b>4 (iii)</b>	
<b>5 (i)</b>	
<b>5 (ii)</b>	

**(answer space continued on next page)**

<b>5 (ii) (continued)</b>	
<b>5 (iii)</b>	
<b>5 (iv)</b>	

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<b>6 (i)</b>	
<b>6 (ii)</b>	

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<b>6 (iii)</b>	
<b>7 (i)</b>	

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(answer space continued on next page)

<b>7 (i) (continued)</b>	

<b>7 (ii)</b>	

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