

**Foundation Tier**

**Change the subject**

**Instructions**

* Use **black** ink or ball-point pen.
	+ **Fill in the boxes** at the top of this page with your name,
	centre number and candidate number.
* Answer **all** questions.
* Answer the questions in the spaces provided
*– there may be more space than you need.*
* You must **show all your working.**
* Diagrams are **NOT** accurately drawn, unless otherwise indicated.
* If your calculator does not have a *π* button, take the value of *π* to be3.142

unless the question instructs otherwise.

**Information**

* The total mark for this paper is **17**. There are **8** questions.
* Questions have been arranged in an ascending order of mean difficulty, as found by all students in the June 2017–November 2019 examinations.
* The marks for **each** question are shown in brackets
*– use this as a guide as to how much time to spend on each question.*

**Advice**

* Read each question carefully before you start to answer it.
* Keep an eye on the time.
* Try to answer every question.
* Check your answers if you have time at the end.

**1** Make *x* the subject of the formula *y* = 2*x* + 4

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**(Total for Question 1 is 2 marks)**

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**2** *T* = 4*v* + 3

 Make *v* the subject of the formula *T* = 4*v* + 3

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**(Total for Question 2 is 2 marks)**

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**3** Make *h* the subject of the formula *c* = 3*h* + 5

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**(Total for Question 3 is 2 marks)**

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**4** Make *t* the subject of the formula *w* = 3*t* + 11

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**(Total for Question 4 is 2 marks)**

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**5** Make *s* the subject of *v*2 = *u*2 + 2*as*

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**(Total for Question 5 is 2 marks)**

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**6** Make *g* the subject of the formula *T* = **

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(**Total for Question 6 is 3 marks**)

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**7** Make *t* the subject of the formula *y* = **

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**(Total for Question 7 is 2 marks)**

**8** Make *p* the subject of the formula *q* = **

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**(Total for Question 8 is 2 marks)**

**TOTAL MARKS FOR PAPER: 17**