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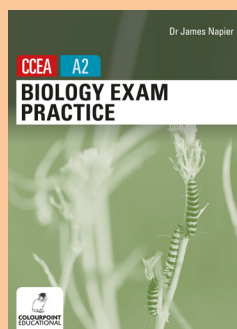
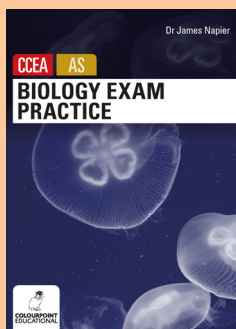


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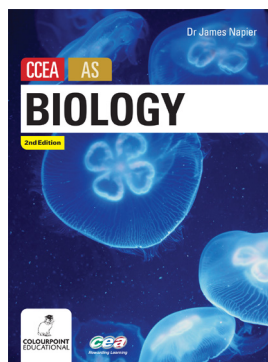
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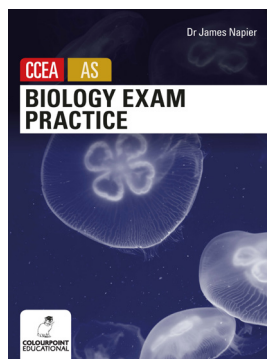
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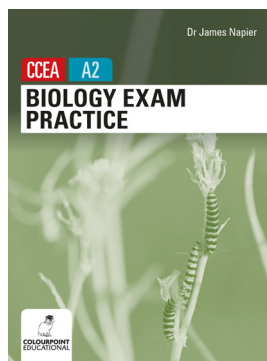
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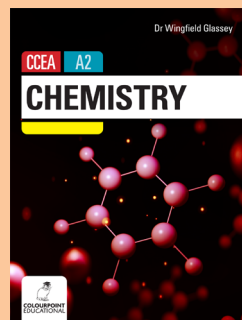
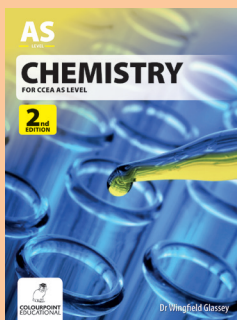
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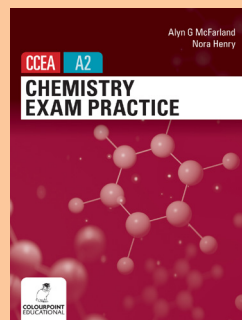
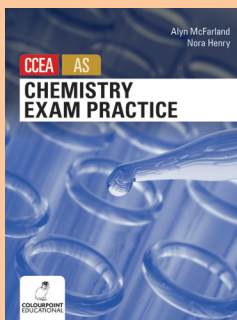


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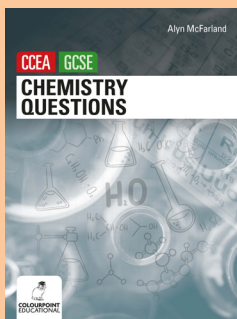
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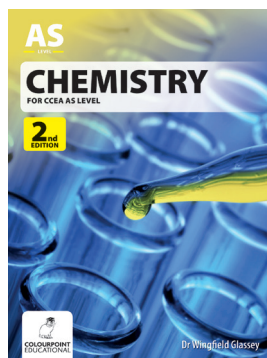
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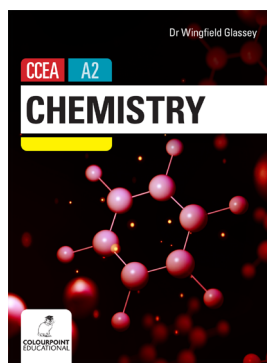


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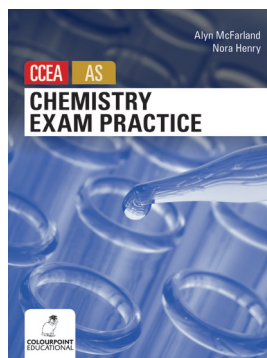
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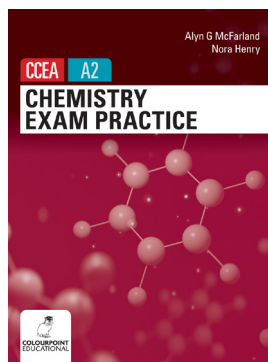
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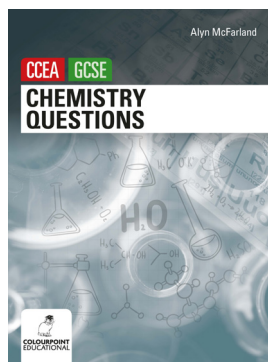
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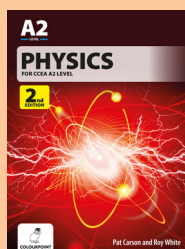
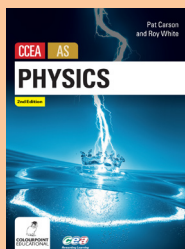
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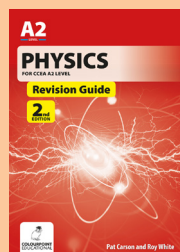
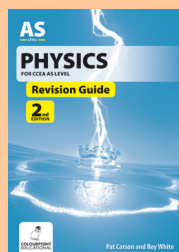
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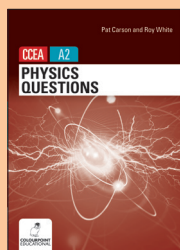
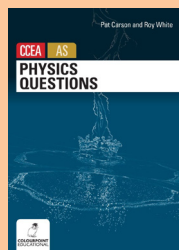
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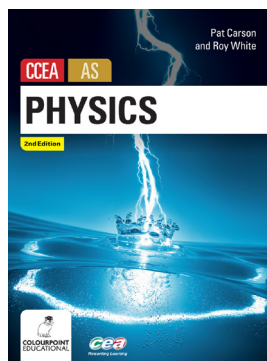
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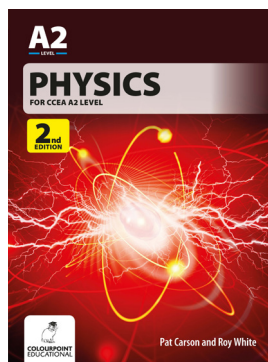
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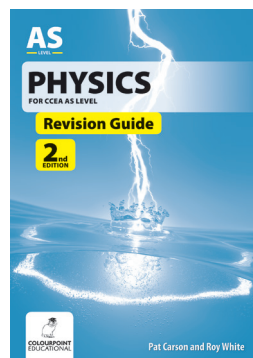
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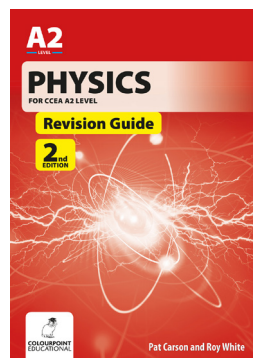
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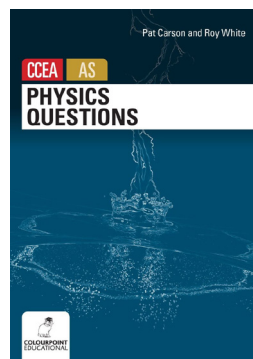


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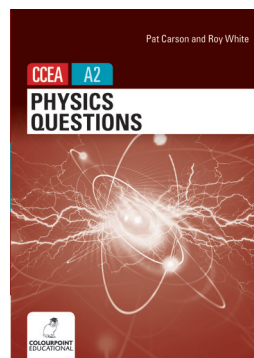


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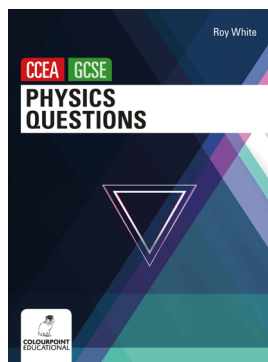


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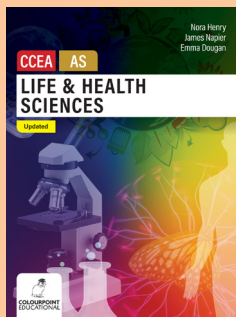
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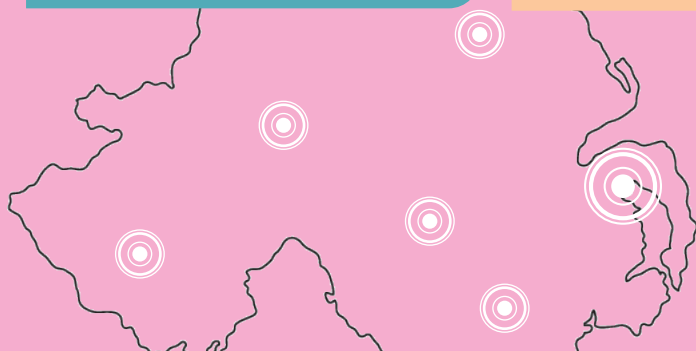
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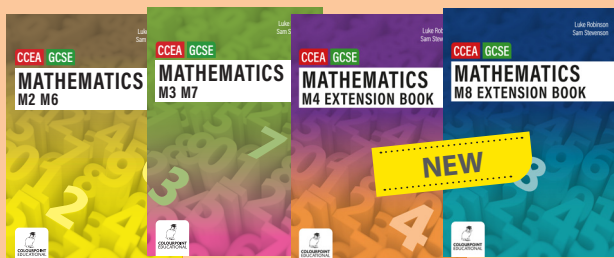
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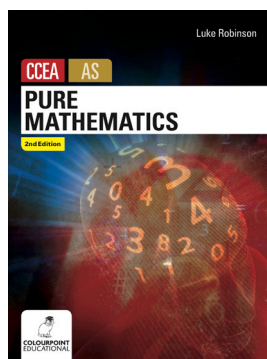
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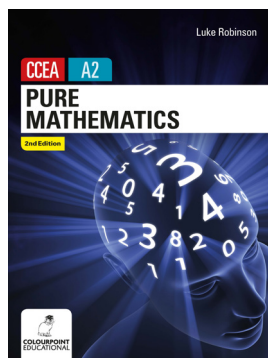
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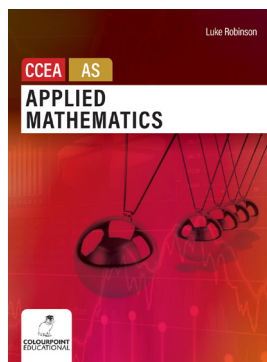
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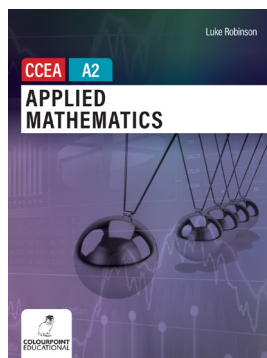
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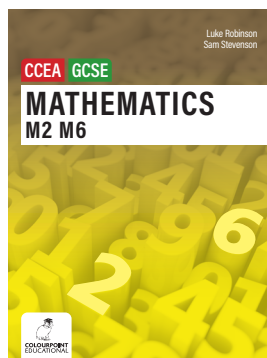
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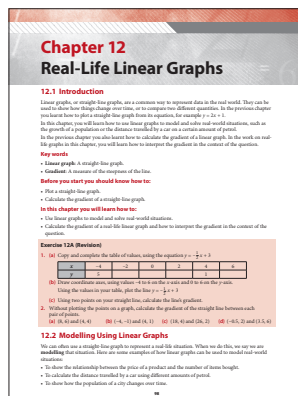
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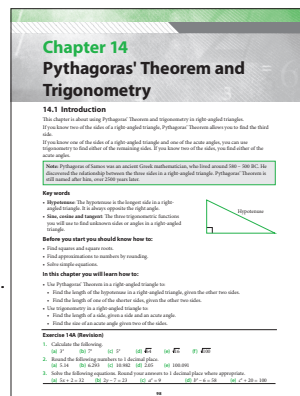
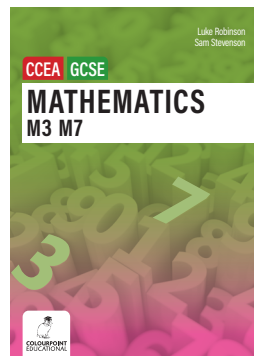
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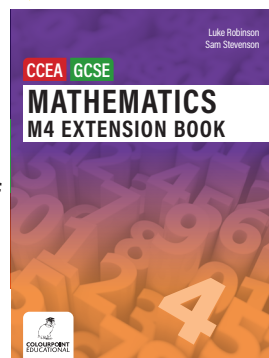
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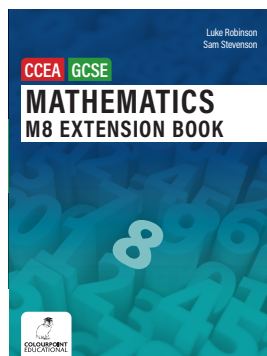
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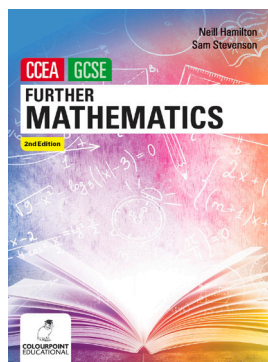


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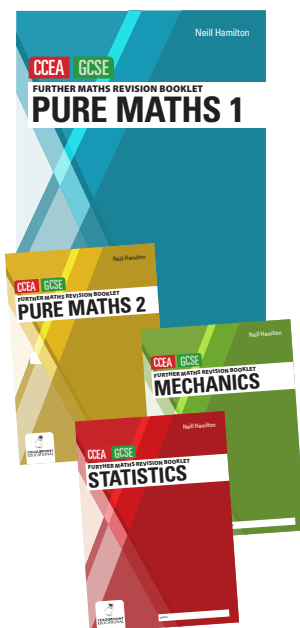


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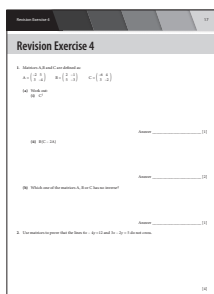
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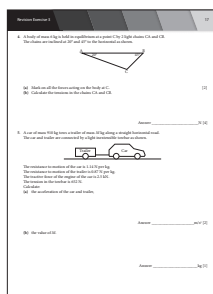
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## Sample pages


M2

Revision Exercise 5

31

### Revision Exercise 5

1. (a) P and Q have coordinates  $(-3, 1)$  and  $(5, 5)$  respectively. Calculate:  
(i) the midpoint of PQ  
Answer \_\_\_\_\_  
(ii) the length of the line PQ correct to 3 significant figures.  
Answer \_\_\_\_\_

(b) 

ABC is a tile in a child's mosaic. It is a right angled triangle.  
 $AB = 2.4$  cm and  $BC = 6.2$  cm.  
Calculate:  
(i) the area of ABC,  
Answer \_\_\_\_\_  $\text{cm}^2$   
(ii) the length of AC.  
Answer \_\_\_\_\_ cm

2. (a) Write the number 60 as a product of its prime factors.  
Answer \_\_\_\_\_

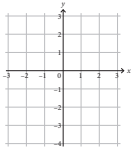
(b) Find the LCM (lowest common multiple) of 60 and 42.  
Answer \_\_\_\_\_

(c) Find the HCF (highest common factor) of 60 and 42.  
Answer \_\_\_\_\_

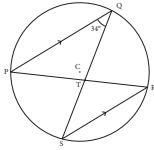
M4

Revision Exercise 1

6. ABC is a triangle.  $A(2, -4)$ ,  $B(3, 2)$ ,  $C(-3, 3)$ . Prove that ABC is a right-angled triangle.



7. C is the centre of the circle shown below. PQ is parallel to SR.  $\angle PQS = 34^\circ$



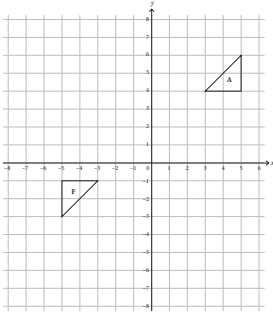
Find the size of the angle:  
(a)  $\angle PRS$  Answer \_\_\_\_\_ $^\circ$   
(b)  $\angle QSR$  Answer \_\_\_\_\_ $^\circ$   
(c)  $\angle PTS$  Answer \_\_\_\_\_ $^\circ$   
(d)  $\angle PTS$  Answer \_\_\_\_\_ $^\circ$

M6

Revision Exercise 2B

22

3. Two triangles, A and F, are shown on the grid below.



(a) Translate triangle A 2 to the left and 2 up.  
Label the new triangle B. [1]

(b) Reflect triangle A in the y-axis.  
Label this reflection C. [1]

(c) Reflect triangle A in the line  $y = 1$ .  
Label this reflection D. [2]

(d) Rotate triangle D  $90^\circ$  clockwise about the origin.  
Label this image E. [3]

(e) Describe the transformation that maps triangle E onto triangle F.  
Answer \_\_\_\_\_ [2]

M8

Revision Exercise 2A

17

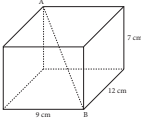
8. The inverse square law states that the force of attraction,  $F$  newtons, on an object is inversely proportional to the square of the distance,  $x$  cm, from the object.

When  $F = 20$ ,  $x = 8$

(a) Express  $F$  in terms of  $x$ .

Answer  $F = \frac{\quad}{\quad}$  [3]

(b) What happens to  $F$  when the value of  $x$  is doubled?  
Answer \_\_\_\_\_ [2]

9. 

A cuboid has dimensions 12 cm by 9 cm by 7 cm as shown in the diagram above.

(a) Calculate the length of the space diagonal AB.  
Answer \_\_\_\_\_ cm [4]

(b) Find the angle that AB makes with the base of the cuboid.  
Answer \_\_\_\_\_ $^\circ$  [2]



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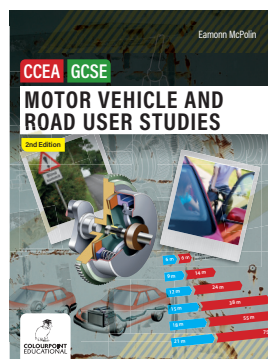


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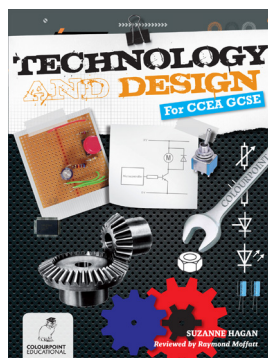


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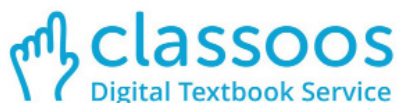


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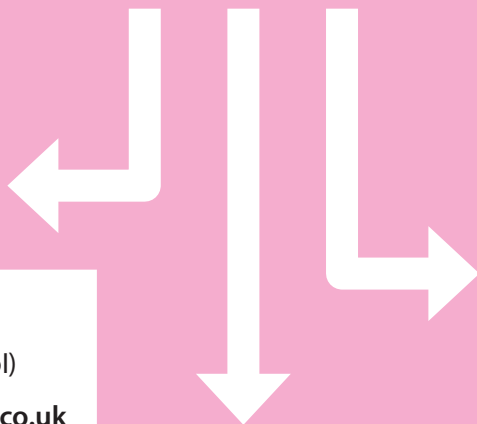
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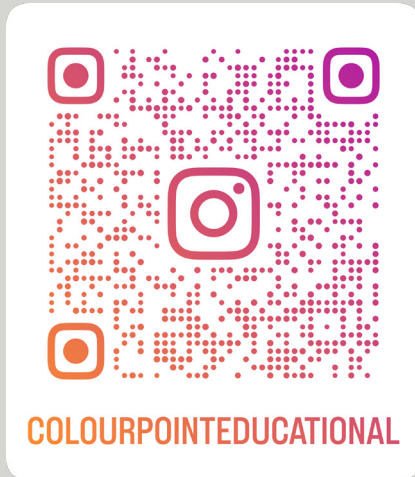


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