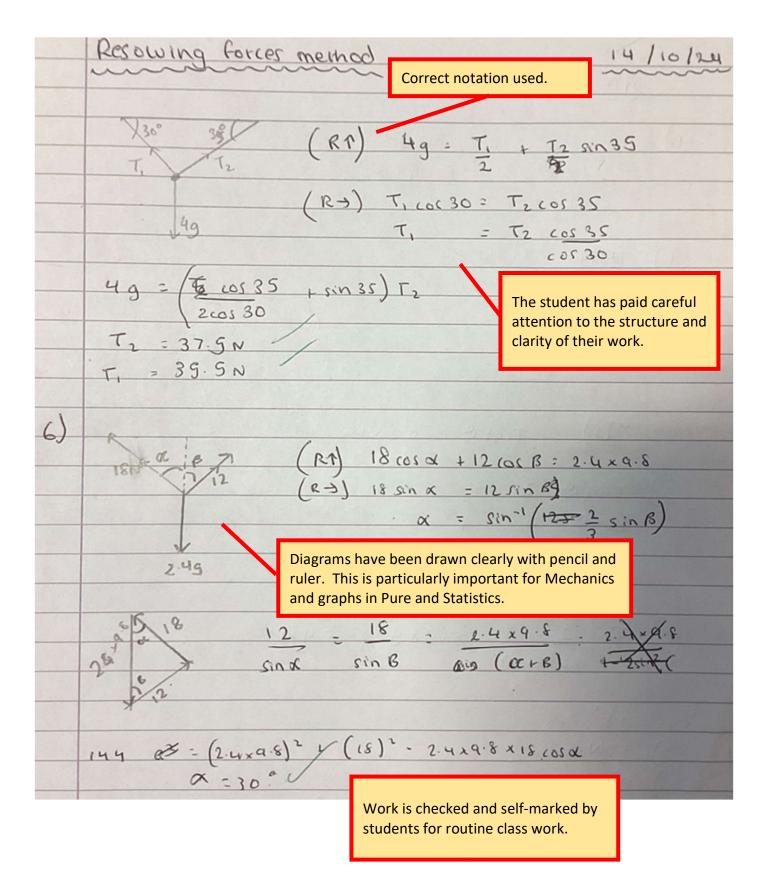
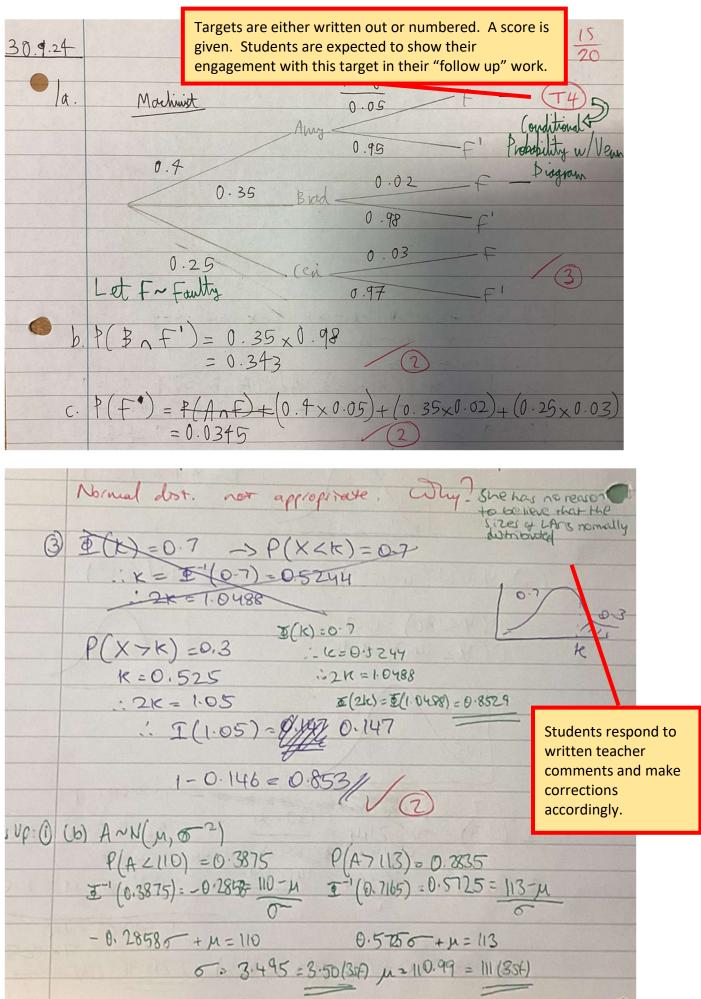
## **Example Key Stage 5 Student Work - Mathematics**

The following gives some examples of the level of work covered in Mathematics in Key Stage 5 including details of how we expect students to set out their work and engage with feedback received.

## **Classwork and homework**



## Teacher assessed work



Extension follow-up  
(a) 
$$f(x) = x^{2} + 4x^{2}$$
  
 $f(x) = (x + 2x)^{2} - 3x^{2}$   
 $f(x) = -3x^{2}$   
(b)  $f(g(3)) = G_{1}$   
 $f(g(x)) = f(4x - 2x)$   
 $f(g(x)) = f(4x - 2x) + 4x^{2}$   
 $f(g(x)) = f(4x - 2x) + 4x^{2} + 46xx - 8x^{2} + x^{2}$   
 $f(g(x)) = 16x^{2} - 36x^{2} + 4x^{2} + 46xx - 8x^{2} + x^{2}$   
 $f(g(x)) = 16x^{2} - 36x^{2} + 64x^{2} + 46xx - 8x^{2} + x^{2}$   
 $f(g(x)) = 16x^{2} - 36x^{2} = 64$   
 $16x^{2} - 3x^{2} = 64$   
 $3x^{2} = 144x - 69$   
 $x^{2} = 25$   
 $a = \pm 5 f(x) = x^{2}$   
 $f(x) = x$   
 $x = 4y - 2x$   
 $y = x + 2x + 2x$   
 $y = x + 2x$