Question	Scheme	Marks	AOs	
7(a)	2^7 or 128 as the constant term	B1	1.1b	
	$\left(2 - \frac{3x}{4}\right)^7 = \dots + {^7C_1}(2)^6 \left(-\frac{3x}{4}\right) + {^7C_2}(2)^5 \left(-\frac{3x}{4}\right)^2 + {^7C_3}(2)^4 \left(-\frac{3x}{4}\right)^3 + \dots$ $= \dots + 7 \times (2)^6 \left(-\frac{3x}{4}\right) + 21 \times (2)^5 \left(-\frac{3x}{4}\right)^2 + 35 \times (2)^4 \left(-\frac{3x}{4}\right)^3 + \dots$	M1 A1	1.1b 1.1b	
	$= 128 - 336x + 378x^2 - \frac{945}{4}x^3 + \dots$	A1	1.1b	
		(4)		
(b)	Coefficient of x^2 is "-336"+5×"378"	M1	3.1a	
	=1554	A1	1.1b	
		(2)		
(6 marks)				
(a) B1: Sight of 2^7 or 128 as the constant term M1: An attempt at the binomial expansion. This can be awarded for the correct structure of the 2^{nd} , 3^{rd} or 4^{th} term. The correct binomial coefficient must be associated with the correct power of 2 and the correct power of $\pm \frac{3x}{4}$				
A1: Fo	1: For a correct simplified or unsimplified second or fourth term (with binomial coefficients evaluated)			
A1: 12 (b)	1: $128 - 336x + 378x^2 - \frac{943}{4}x^3$ which may be written as a list)			
M1: A	A correct strategy for the required coefficient.			
AI: 13	14 Cau			