Question	Scheme	Marks
1	$1024+\ldots$	B1
	$\ldots+{}^{10}C_1\times\ldots x+{}^{10}C_2\times\ldots x^2+{}^{10}C_3\times\ldots x^3+\ldots$	M1
	$\ldots+10\times2^9\times\frac{3}{8}x+45\times2^8\times\left(\frac{3}{8}x\right)^2+120\times2^7\times\left(\frac{3}{8}x\right)^3$ Or two of $\ldots+1920x+1620x^2+810x^3$	A1
	$\ldots+1920x+1620x^2+810x^3$	A1
		(4)
		(4 marks)

Notes:

B1: Correct constant term of 1024 as an integer.

M1: Correct binomial coefficient multiplied by the correct powers of x for **at least 2 terms** in x, x^2 or x^3.

Allow e.g. ${}^{10}C_1$, ${}^{10}C_2$, ${}^{10}C_3$ or $\binom{10}{1}, \binom{10}{2}, \binom{10}{3}$ or evaluated coefficients and condone missing brackets e.g. $\frac{3}{8}x^2$ for $\left(\frac{3}{8}x\right)^2$ or $\frac{3}{8}x^3$ for $\left(\frac{3}{8}x\right)^3$

May take out a common factor of 2^{10} first, but again look for correct binomial coefficients multiplied by the correct powers of x for **at least 2 terms** in x, x^2 or x^3.

E.g. $\left(2+\frac{3}{8}x\right)^{10}=2^{10}\left(1+\frac{3}{16}x\right)^{10}=2^{10}\left(1+{}^{10}C_1\ldots x+{}^{10}C_2\ldots x^2+{}^{10}C_3\ldots x^3+\ldots\right)$

A1: Allow for a fully correct unsimplified expression (ignoring the constant term) with **evaluated binomial coefficients**, must be expanded if a common factor of 2^{10} is taken out first
OR two of the three terms in x, x^2 and x^3 correct and simplified.

E.g. $\ldots+10\times2^9\times\frac{3}{8}x+45\times2^8\times\left(\frac{3}{8}x\right)^2+120\times2^7\times\left(\frac{3}{8}x\right)^3$

Or $\ldots+10\times2^{10}\times\frac{3}{16}x+45\times2^{10}\times\left(\frac{3}{16}x\right)^2+120\times2^{10}\times\left(\frac{3}{16}x\right)^3$

The brackets must be present unless they are implied by subsequent work.

OR two of $\ldots+1920x+1620x^2+810x^3$. Allow terms to be "listed".

A1: Final three terms fully correct and simplified. Allow terms to be "listed".
Once a correct expansion (or list of terms) is seen then isw. E.g. some candidates think they have to list the coefficients separately but apply isw.
Ignore any extra terms if found.