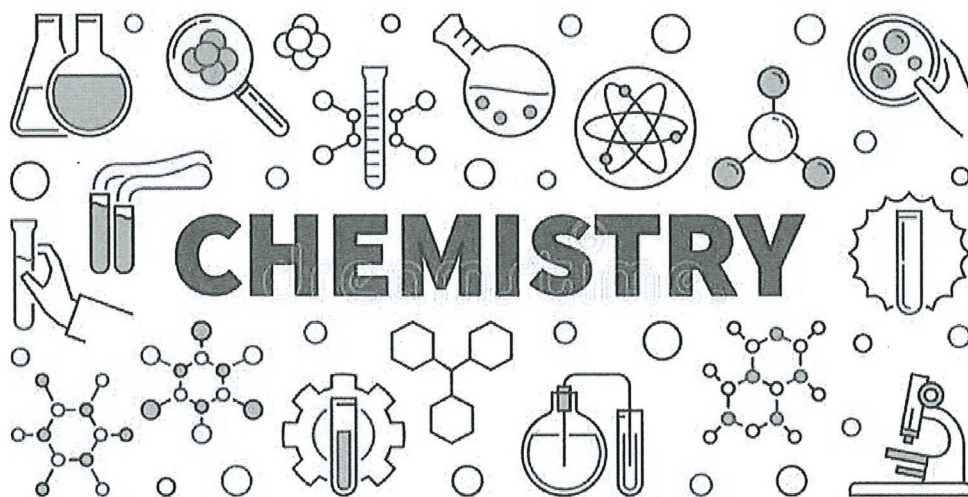
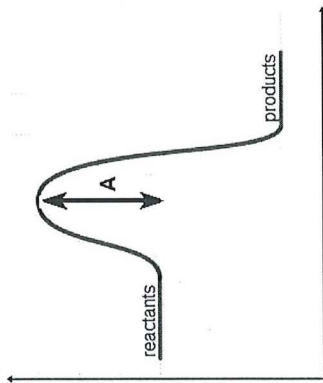
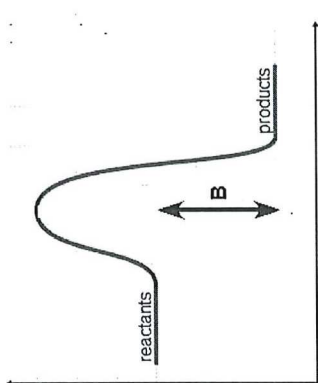




WJEC Chemistry 2
Dual Award – Higher Tier
2.4 Mark Scheme

Question			Marking details	Marks available					
				AO1	AO2	AO3	Total	Maths	Prac
8/2	(a)		3466 (2) if incorrect award (1) for indication of correct bonds formed e.g. (4 × O—H) and (2 × C=O) / (4 × 464) and (2 × 805)		2		2	2	
	(b)		818 / -818 (1) ecf possible from part (a) award (1) for any of following explanations • more energy is released than taken in • more energy out than energy in • energy out is bigger than energy in • overall change is negative (if -818 calculated)		2		2	1	
			Question 8/2 total	0	4	0	4	3	0

Question			Marking details	Marks available					
				AO1	AO2	AO3	Total	Maths	Prac
3	(a)	(i)	498 (3) if answer incorrect award credit for each correct step $(2 \times C-C) + (8 \times C-H) / 4000 / 696 + 3304$ (1) $(5 \times O=O) = 6490 - 4000 / 2490$ (1) $O=O = \frac{2490}{5} = 498$ (1) ecf possible		3		3	3	
		(ii)	2052 kJ taken in ☐ 15 032 kJ taken in ☐ 15 032 kJ given out ☐ 2052 kJ given out ☒			1	1	1	
	(b)		70 / 69.8 / 69.84 do not accept 69.9	1			1	1	

Question		Marking details	Marks available					
			AO1	AO2	AO3	Total	Maths	Prac
	(c)	 must be unambiguously labelled	1			1		
	(ii)	 must be unambiguously labelled	1			1		
		Question 3 total	3	3	1	7	5	0