

Question			Answer	Mark	Guidance
24	(a)	(i)	deoxyribose ✓	1	
		(ii)	phosphodiester ✓	1	
	(b)		<p><i>both have:</i>            a pentose (sugar) ✓            adenine (base) ✓            phosphodiester bond (between sugar and phosphate) ✓            an OH group on carbon 3 of the sugar ✓            phosphate (group) ✓</p> <p><i>ATP has:</i>            two additional phosphates ✓</p> <p>deoxyribose replaced by ribose ✓</p> <p>an OH group on carbon 2 of the, sugar / ribose</p>	4 max	<p>Mark first two similarities and first two differences</p> <p><b>IGNORE</b> both have N, C, H, O, NO<sub>3</sub><sup>-</sup></p> <p><b>DO NOT ALLOW</b> phosphate ion / molecule (but penalise only once)</p> <p><b>ALLOW ORA</b> for DNA nucleotide</p> <p><b>DO NOT ALLOW</b> 'ATP has ribose' without comparison</p>