Paper 4

Questions are applicable for both core and extended candidates unless indicated in the question

1	(c) H	ydrogen–oxygen fuel cells can be used to produce electricity in vehicles.
	(i)	Write the symbol equation for the overall reaction in a hydrogen-oxygen fuel cell.
		[2]
	(ii	State one advantage of using hydrogen–oxygen fuel cells instead of petrol in vehicle engines. (extended only)
		[1]
2	Hyd	rogen is a fuel which can be obtained from water by electrolysis.
	(b)	Some cars use hydrogen–oxygen fuel cells as a source of energy.
		Explain one advantage to the environment of using a hydrogen–oxygen fuel cell instead of a petrol engine. (extended only)
		[2]