*Mark Scheme Evaluating fuel cells- sort the statements into pros and cons (1 mark for each statement sorted into correct column, max 5)*

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| PROS | CONS |
| *The only exhaust from fuel-cell-powered vehicles would be water vapor.* | *There are no natural reservoirs of pure hydrogen; it*  *must be extracted from compounds such as natural*  *gas or water.* |
| *They are very light.* | *Hydrogen is very difficult to store and transport in a vehicle unless it is compressed to thousands of pounds per square inch (psi).* |
| *A hydrogen-oxygen fuel cell is an electrochemical cell – that is, it converts chemical energy in fuels directly to electrical energy.* | *When natural gas (basically methane, a lightweight*  *molecule made of carbon and hydrogen) is exposed*  *to steam under high temperatures in the presence of*  *a catalyst, it frees the hydrogen. However, the process*  *itself also produces substantial amounts of CO2.* |