

Mark schemes

Q1.

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| (a) 6 (V) | 1 |
| (b) sodium chloride solution | 1 |
| (c) Level 3: The method would lead to the production of a valid outcome.
The key steps are identified and logically sequenced. | 5–6 |
| Level 2: The method would not necessarily lead to a valid outcome.
Most steps are identified, but the method is not fully logically sequenced. | 3–4 |
| Level 1: The method would not lead to a valid outcome. Some relevant
steps are identified, but links are not made clear. | 1–2 |
| No relevant content | 0 |

Indicative content

- set up a cell
- **add an electrolyte**
- into a beaker
- **add two (different) metals**
- **measure the voltage**
- using a voltmeter
- **repeat using different metals**
- same volume of electrolyte
- same concentration of electrolyte
- same type of electrolyte
- one metal kept the same each time

[8]