

Combined Science - Chemistry - Key Stage 4

Humphry Davy and Laban Roomes

Applications of Electrolysis

Mr Campbell



Answer the questions below

- Why, before the development of electrolysis, had the metals Davy discovered been difficult to discover
- What electrode do the metals form at during electrolysis?
- Why do the metals move to this electrode during electrolysis?



- The metals are reactive metals, they are more reactive than carbon so could not be extracted by heating with carbon.
- Metals form at the cathode.
- Metal ions are positive, the cathode is negative and opposite charges attract.

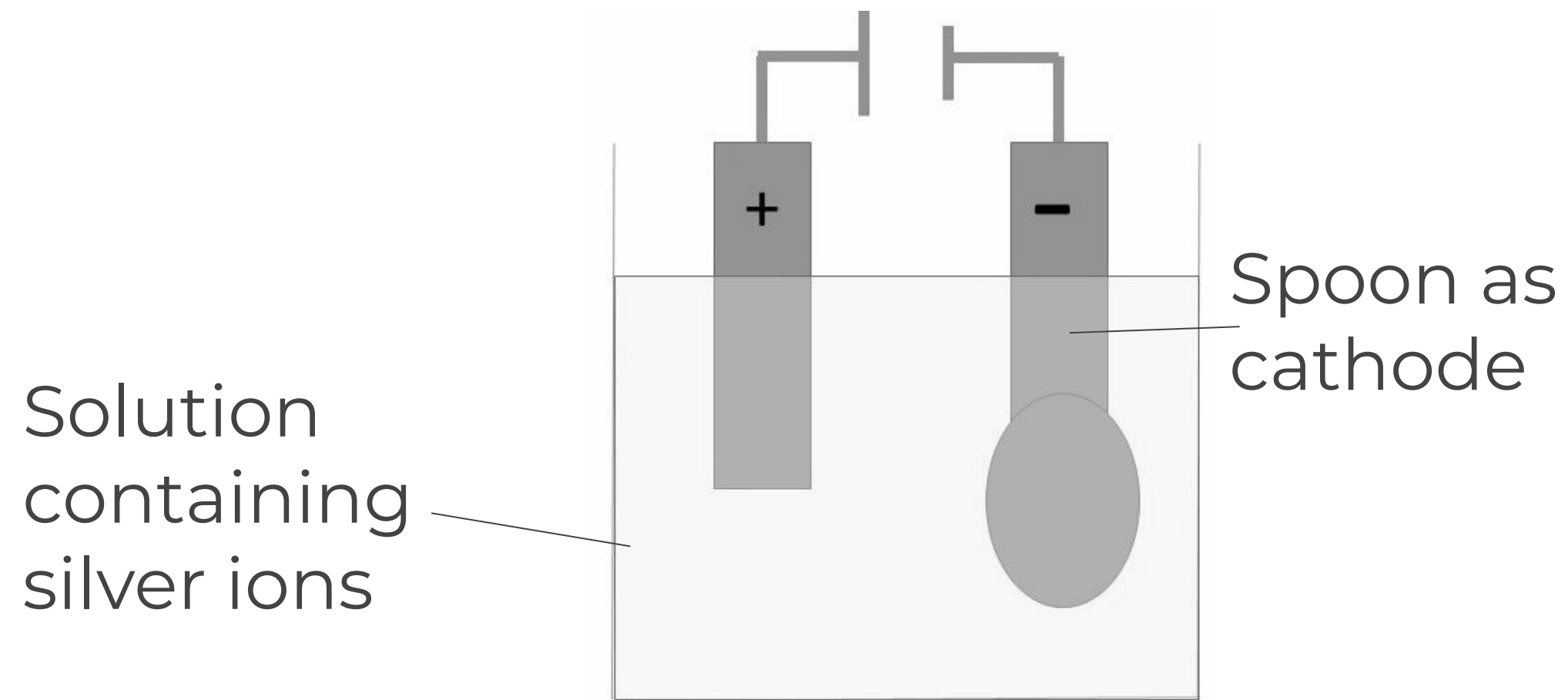


Describe how a spoon could be plated with silver:

- What ions would need to be in the solution?
- What charge would the spoon need to be?
- Draw a simple diagram of the electrolysis setup need.



- Solution would need to contain silver ions/ Ag^+
- The spoon would need to be negatively charged



Source Mr Campbell

