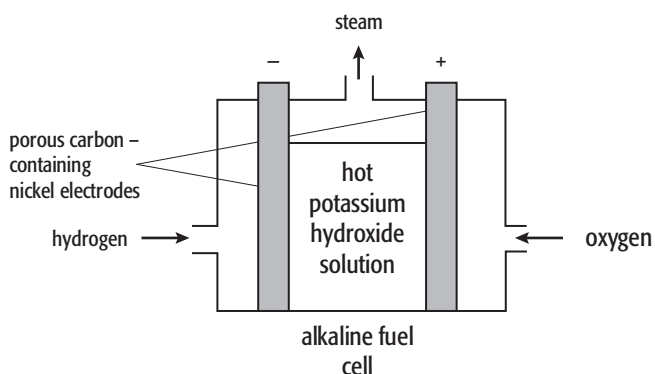


# Worksheet 1.8

## Fuel cells

Fuel cells are often taken into space to supply energy. They turn the energy of a fuel directly into electricity.



**1 a** Why are fuel cells of this type often referred to as 'alkaline fuel cells (AFC)'?

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**b** Why are porous electrodes needed in a fuel cell?

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**c** Why is nickel included in the electrodes?

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**2** What is the main way in which fuel cells differ from other electrochemical cells?

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**3** Write an equation for the overall reaction taking place in a fuel cell.

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**4** Give two reasons why fuel cells are more suitable than dry cells for use in spacecrafts.

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**5** What other type of cell could be used in a spacecraft?

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