

# CAIE IGCSE Chemistry

## 8.4 Transition elements

### Notes

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*Describe the transition elements as...*

- Transition elements are found in the middle of the periodic table between group 2 and 3, e.g. Manganese, Iron and copper are transition elements.
- Transition elements are metals that have the general properties of:
  - High densities
  - High melting points
  - Form coloured compounds
  - Often act as catalysts as elements and in compounds

*(Extended only) Describe transition elements as having ions with variable oxidation numbers*

- Transition elements can form ions with different oxidation numbers (states)
  - E.g. Iron can form  $\text{Fe}^{2+}$  and  $\text{Fe}^{3+}$  ions so the type of iron ion will be indicated by a Roman numeral in its name, e.g. Iron (II) sulfate

