16-18 years

The structure of benzene





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August Kekulé

- German chemist
- First to declare that carbon forms four bonds
- Proposed his structure of benzene after dreaming of a snake swallowing its own tail





Kathleen Lonsdale

- British crystallographer
- Professor at University College London
- Used x-ray crystallography to determine the bond lengths in benzene





The delocalised π -bond in benzene extends round the ring



 $6 p_z$ orbitals

Delocalised pi system





Answer Q8 – part b





