

**Marks**  
**2**

- Explain why hydrogen bonding is significant in  $\text{H}_2\text{O}$  (bp  $100^\circ\text{C}$ ), but not in  $\text{H}_2\text{Se}$  (bp  $-41^\circ\text{C}$ ) despite both oxygen and selenium being in Group 16 of the Periodic Table.