3D shapes of molecules

1 Why do only molecules have shapes?

- Only covalent substances have directional electrostatic forces
- bond 只能在特定的方向存在 (bond 定了一个方向,就只会是那个方向)
- 七河泛方何? → Vallence Shell Electron Pair Repulsion Theory (VSEPR, out of syllabus)
 - > e pairs (in outermost shell of atom, le b.p. & l.p.)相介→尽可能腐得最远
 - > ↑ 「.P. 1.P.: > 90°

 Repulsion 「.P. b.P.: 越り90°越好
 force b.P. b.P.: ≥ 90°

 Reason

 [.p. R被 Central atom 吸引; b.p.被 bond 双方的 atom 吸引
 ⇒ (.p. 為 central atom 較近→4肥分→epulsion于

2 Determining the shape of molecules



