

# Ionisation energy and sub-shells

Pre-lesson assignment p.56 + 99-100

**First watch the video on Electron Configuration**

Make notes on ionisation energy and sub-shells

Use the following questions as guidance:

1. State the trend of ionisation energy across a group
2. Explain why this general trend is observed
3. State the rules for the filling of atomic orbitals (p56)
4. Sketch figure 4, and explain
  - a. the fall in first ionisation energy from Be to B
  - b. the fall in first ionisation energy from N to O