

Ionisation energy and sub-shells

Pre-lesson assignment p.56+57 + 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. Write out electron configurations of two elements of your choice (p57).
5. 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