



SC4 The periodic table

Personal learning checklist | 1 of 1

GCSE Edexcel Separate Sciences | Chemistry Papers 1 and 2

Name _____ Class _____ Date _____

Tick one box for each statement. Red: need help. Amber: partly confident.
Green: can do independently.

I can	Red	Amber	Green
Developing the table			
Explain Mendeleev's mass ordering, chemical groupings, gaps and property predictions.	☐	☐	☐
Explain how later discoveries supported Mendeleev and why modern tables use atomic number.	☐	☐	☐
Reading the table			
Identify periods, groups and the general positions of metals and non-metals.	☐	☐	☐
Link main-group chemical similarities and group numbers to outer-shell electrons.	☐	☐	☐
Explain full outer shells and the group 0 exception, including helium.	☐	☐	☐
Electronic arrangements			
Write and draw electronic configurations of neutral atoms among the first 20 elements.	☐	☐	☐
Explain the limits of the first-20 shell model and distinguish diagrams from real electron paths.	☐	☐	☐
Predictions from arrangements			
Determine an element, period and group from an electronic configuration.	☐	☐	☐
Explain the increase in occupied shells down a group and related chemical behaviour.	☐	☐	☐
Predict common metal and non-metal ion charges from outer-shell electrons.	☐	☐	☐

My next revision priority _____