









SC4 The Periodic Table






SC4a Elements and the periodic table

| Step | Learning outcome | Had a look | Nearly there | Nailed it! |
|---|--|--------------------------|--------------------------|--------------------------|
|  6 th | Recall the chemical symbols of some common elements. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  6 th | Describe how Mendeleev arranged elements into a periodic table. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  7 th | Describe how Mendeleev predicted the existence and properties of some elements yet to be discovered. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  8 th | Explain how Mendeleev's early ideas were supported by later evidence. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

SC4b Atomic number and the periodic table

| Step | Learning outcome | Had a look | Nearly there | Nailed it! |
|---|--|--------------------------|--------------------------|--------------------------|
|  7 th | Explain some problems Mendeleev had when ordering the elements. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  6 th | Explain the meaning of the term 'atomic number'. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  6 th | Describe how the elements are arranged in the modern periodic table. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  6 th | Recall the positions of metals and non-metals in the periodic table. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

SC4c Electronic configurations and the periodic table

| Step | Learning outcome | Had a look | Nearly there | Nailed it! |
|---|---|--------------------------|--------------------------|--------------------------|
|  7 th | State what the term 'electronic configuration' means. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  8 th | Show electronic configurations in the form 2.8.1 and as diagrams. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  9 th | Predict the electronic configurations of the elements hydrogen to calcium. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  9 th | Explain the links between an element's position in the periodic table and its electronic configuration. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  6 th | Recall the positions of metals and non-metals in the periodic table. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |