# Cover Sheet |Playing Mendeleev (VCE Unit 1 AoS 1)

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| **Related Key Knowledge or Key Science Skills** | • the periodic table as an organisational tool to identify patterns and trends in, and relationships between, the structures (including shell and subshell electronic configurations and atomic radii) and properties (including electronegativity, first ionisation energy, metallic and non-metallic character and reactivity) of elements |
| **Recommended timing of activity** | Initially I was planning on doing an activity or game to gather what they remember from the Year 10 Periodic Table unit.  **I ended up scrapping it**, as I assumed students would sort based on how they were cut rather than other physical properties. |

Place yourself in Mendeleev’s shoes. Ignore the labels; based on what you observe about the samples, how would you sort them? That is, arrange your own ‘periodic table’ with the samples. What principles and trends are you using to arrange them?