11-14 years

Organising elements







https://rsc.li/3LsJZkd

- 1. Explore the properties of common elements, commenting on similarities and differences.
- 2. Consider how common elements might be grouped, based on their properties.
- 3. Use given information to construct a simple table of elements.
- 4. Reflect on the arrangement of the periodic table and how this supports chemists to make predictions about elements.

Type: non-metal Colour: reddish-brown State (at room temperature): liquid Information: can be used as a flame retardant	Type: metal Colour: silvery-white State (at room temperature): solid Information: sinks in water and burns with a bright white light	Type: non-metal Colour: yellowish-green State (at room temperature): gas Information: kills bacteria – used to treat drinking water
Type: metal Colour: silvery-white State (at room temperature): soft solid Information: tarnishes rapidly in air, more dense than water, reacts with water	Type: metal Colour: silvery State (at room temperature): soft solid Information: tarnishes rapidly in air, floats on water, reacts vigorously with water	Type: metal Colour: silvery State (at room temperature): soft solid Information: burns in air, sinks in water, reacts with water
Type: metal Colour: silvery State (at room temperature): soft solid Information: tarnishes rapidly in air, floats on water, reacts vigorously with water - igniting with a lilac flame	Type: non-metal Colour: silvery-grey State (at room temperature): solid Information: used in dyes and photographic chemicals	Type: metal Colour: silvery State (at room temperature): soft solid Information: ignites in air, floats on water, reacts violently with water

