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| **Activity** | **Compare the Pair** | | | **Duration** | 15 mins |
| **Learning Intention** | To understand and compare the properties of a variety of different elements. | | | | |
| **Year / Level** | Australian Curriculum  Years 7-8 | **Curricular Link(s)** | **AC9S7U05: use particle theory to describe the arrangement of particles in a substance, including the motion of and attraction between particles, and relate this to the properties of the substance**   * investigating properties of materials such as density, melting point and compressibility and explaining these in terms of particle arrangement | | |
| **Resources Required** | Element set  ‘Compare the Pair’ student worksheet - Venn Diagram  Internet access for element research | | | | |
| **Risk Assessment** | Careful handling of the samples in the Elements Kit - **Do not open containers** | | | | |
| **Outline** | Students can work individually, in pairs or small groups.  Students are provided with two elements from the element set and the worksheet.  They are to complete the ‘Compare the Pair’ Venn Diagram worksheet based on their research into the two elements.  They should consider:   * Physical characteristics * Properties of the elements * Historical information such as discovery and purification * Common uses   Students could then present their findings to the class.  This task could also be completed in 3 minute rotations, where each group works on the task for 3 minutes and then passes it (and the elements) to the next group to continue. The worksheet could be printed A3 size to facilitate this. | | | | |
| **Worksheet** | *‘Compare the Pair’ Student Worksheet* | | | | |