

## Compare the Pair Lesson Guide

<b>Activity</b>	<b>Compare the Pair</b>		<b>Duration</b>	15 mins
<b>Learning Intention</b>	To understand and compare the properties of a variety of different elements.			
<b>Year / Level</b>	Australian Curriculum Years 7-8	<b>Curricular Link(s)</b>	<b>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</b> <ul style="list-style-type: none"> <li>● investigating properties of materials such as density, melting point and compressibility and explaining these in terms of particle arrangement</li> </ul>	
<b>Resources Required</b>	Element set 'Compare the Pair' student worksheet - Venn Diagram Internet access for element research			
<b>Risk Assessment</b>	Careful handling of the samples in the Elements Kit - <b>Do not open containers</b>			
<b>Outline</b>	<p>Students can work individually, in pairs or small groups.</p> <p>Students are provided with two elements from the element set and the worksheet.</p> <p>They are to complete the 'Compare the Pair' Venn Diagram worksheet based on their research into the two elements.</p> <p>They should consider:</p> <ul style="list-style-type: none"> <li>● Physical characteristics</li> <li>● Properties of the elements</li> <li>● Historical information such as discovery and purification</li> <li>● Common uses</li> </ul> <p>Students could then present their findings to the class.</p> <p>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.</p>			
<b>Worksheet</b>	<i>'Compare the Pair' Student Worksheet</i>			