

CHEM1001 Answers to Problem Sheet 1

1.

liquid mercury	<b>element</b>	ice	<b>molecular compound</b>
neon gas	<b>element</b>	liquid nitrogen	<b>element</b>
milk	<b>mixture</b>	copper pipe	<b>element</b>
blood	<b>mixture</b>	air	<b>mixture</b>
gaseous CO <sub>2</sub>	<b>molecular compound</b>	gaseous oxygen	<b>element</b>
solid sodium	<b>element</b>	brass	<b>mixture</b>

2.

<b>Cl</b>	<b>Na</b>	<b>Si</b>	<b>C</b>	<b>S</b>	<b>P</b>	<b>Pb</b>	<b>He</b>	<b>As</b>
<b>Pb</b>	<b>P</b>	<b>S</b>	<b>He</b>	<b>As</b>	<b>Si</b>	<b>Cl</b>	<b>Na</b>	<b>C</b>
<b>C</b>	<b>As</b>	<b>He</b>	<b>Cl</b>	<b>Pb</b>	<b>Na</b>	<b>P</b>	<b>S</b>	<b>Si</b>
<b>As</b>	<b>S</b>	<b>C</b>	<b>Pb</b>	<b>Na</b>	<b>He</b>	<b>Si</b>	<b>Cl</b>	<b>P</b>
<b>Na</b>	<b>Pb</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Cl</b>	<b>As</b>	<b>C</b>	<b>He</b>
<b>Si</b>	<b>He</b>	<b>Cl</b>	<b>P</b>	<b>C</b>	<b>As</b>	<b>S</b>	<b>Pb</b>	<b>Na</b>
<b>P</b>	<b>C</b>	<b>Na</b>	<b>Si</b>	<b>Cl</b>	<b>Pb</b>	<b>He</b>	<b>As</b>	<b>S</b>
<b>S</b>	<b>Si</b>	<b>Pb</b>	<b>As</b>	<b>He</b>	<b>C</b>	<b>Na</b>	<b>P</b>	<b>Cl</b>
<b>He</b>	<b>Cl</b>	<b>As</b>	<b>Na</b>	<b>P</b>	<b>S</b>	<b>C</b>	<b>Si</b>	<b>Pb</b>

More puzzles are available at:

[http://firstyear.chem.usyd.edu.au/games/su\\_doku.shtml](http://firstyear.chem.usyd.edu.au/games/su_doku.shtml) and  
<http://firstyear.chem.usyd.edu.au/games/crossword.shtml>