

Component 3- Chemistry: Elements, mixtures and compounds

Question	Answers	Additional Guidance	Mark
1 (a)	about 100		1
(b)	F and Br		1
(c)	magnesium (+) oxygen	allow reverse order	1
(d)	a compound		1
2 (a)	economic		1
(b)	iron		1
(c)	To save resources and reduce damage to the environment.		1
3 (a)	three		1
(b)	bonds		1
4	The atoms are in layers that can slide over each other.		1
5 (a)	an alloy		1
(b)	The atoms are able to move about and stay close together.		1
(c)	0.8		1

<p><b>6</b></p>	<p>We use this metal for electrical wires and water pipes</p> <p>This metal has a low density and we use it to make drinks cans</p> <p>This metal is unreactive and is used to make jewellery</p> <p>iron</p> <p>aluminium</p> <p>gold</p> <p>copper</p>	<p>one mark for each correct line</p> <p>apply list principle for additional lines</p>	<p>2</p>
<p><b>7</b></p>	<p>waterproof</p> <p>biodegradable</p>		<p>1</p> <p>1</p>
<p><b>8 (a)</b></p> <p>(b)</p> <p>(c)</p>	<p>Filtration</p> <p>solvent</p> <p>there are three colours</p> <p><b>or</b></p> <p>it has red, blue and green colours</p> <p><b>or</b></p> <p>there is more red than blue or green</p>	<p>allow water or other named solvent</p> <p>allow other valid conclusions</p>	<p>1</p> <p>1</p> <p>1</p>
<p><b>Total</b></p>			<p><b>20</b></p>