

EXTRACTION AND USE OF METALS HW2																	
1	<p>Which metal is used for galvanising?</p> <p>A aluminium B copper C iron D zinc</p>																
2	<p>Which row gives a correct use for the metal stated?</p> <table border="1"> <thead> <tr> <th></th><th>metal</th><th>use</th></tr> </thead> <tbody> <tr> <td>A</td><td>aluminium</td><td>manufacture of aircraft</td></tr> <tr> <td>B</td><td>copper</td><td>galvanising dustbins</td></tr> <tr> <td>C</td><td>mild steel</td><td>cutlery</td></tr> <tr> <td>D</td><td>zinc</td><td>cooking utensils</td></tr> </tbody> </table>			metal	use	A	aluminium	manufacture of aircraft	B	copper	galvanising dustbins	C	mild steel	cutlery	D	zinc	cooking utensils
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3	<p>Which statement explains why aluminium is used to make aircraft parts?</p> <p>A It conducts electricity. B It conducts heat. C It has a low density. D It is reactive.</p>																
4	<p>Iron is extracted from its ore using carbon.</p> <p>Aluminium cannot be extracted from its ore using carbon.</p> <p>Which statement explains why iron is extracted using carbon?</p> <p>A Iron is less reactive than aluminium. B Iron is less reactive than carbon. C Iron is more dense than aluminium. D The melting point of iron is more than that of aluminium.</p>																
5	<p>Which statement about zinc is not correct?</p> <p>A It forms an alloy called brass with copper. B It is used in electrical wiring. C It is used to prevent the rusting of iron and steel. D It reacts with sulfuric acid to form a salt.</p>																

6 The uses of aluminium depend on its properties.

Which property does **not** explain why aluminium is used to make the stated object?

	property	object
A	good conductor of heat	saucepans
B	high density	aircraft parts
C	malleable	drinks can
D	resistant to corrosion	food containers

7 A piece of aluminium sinks without reacting when it is added to water.

Which statement explains why the aluminium does **not** react with water?

- A Aluminium forms an amphoteric oxide.
- B Aluminium has an oxide layer.
- C Aluminium is an unreactive metal.
- D Aluminium is more dense than water.

8 Which statement about obtaining metals from their ores is **not** correct?

- A Copper is obtained from its ore by heating with carbon as it is more reactive than carbon.
- B Iron is obtained from its ore by carbon reduction as it is less reactive than carbon.
- C Less reactive metals are easier to obtain from their ores.
- D More energy is required to obtain a more reactive metal from its ore.

9 Three types of steel have different properties.

steel 1 is easily shaped

steel 2 is brittle

steel 3 is resistant to corrosion

What are the names of these three types of steel?

	steel 1	steel 2	steel 3
A	high carbon	mild	stainless
B	high carbon	stainless	mild
C	mild	high carbon	stainless
D	mild	stainless	high carbon

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Which row shows why copper is used for electrical wiring?

	melting point	conductivity	reactivity
A	high	high	low
B	high	low	high
C	low	high	high
D	low	low	low