

EXTRACTION AND USE OF METALS HW2																	
1	Which metal is used for galvanising? A aluminium B copper C iron D zinc																
2	Which row gives a correct use for the metal stated? <table><tr><td></td><td>metal</td><td>use</td></tr><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></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	Which statement explains why aluminium is used to make aircraft parts? A It conducts electricity. B It conducts heat. C It has a low density. D It is reactive.																
4	Iron is extracted from its ore using carbon. Aluminium cannot be extracted from its ore using carbon. Which statement explains why iron is extracted using carbon? 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.																
5	Which statement about zinc is not correct? 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.																

- 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