

**Paper 1**

**Questions are applicable for both core and extended candidates**

- 1** A company needs a metal with a low density which resists corrosion and is a good electrical conductor.

Which metal should it use?

- A** aluminium
- B** iron
- C** magnesium
- D** sodium

- 2** What is the symbol of the metal used in the manufacture of aircraft because of its low density?

- A** Al
- B** Cu
- C** Fe
- D** Zn

- 3** Which metal is used in aircraft manufacture because it has a low density?

- A** aluminium
- B** copper
- C** iron
- D** potassium

4 Which statement explains why aluminium is used in the manufacture of aircraft?

- A It conducts heat well.
- B It has a low density.
- C It is a good insulator.
- D It is easy to recycle.

5 Which row links the property of a metal to its use?

	property	use
A	high density	aircraft bodies
B	high reactivity	food containers
C	good electrical conductor	cooking pans
D	ductile	electrical wiring

6 Overhead power cables made from (steel-cored) aluminium are used to carry electricity over long distances.

Which property of (steel-cored) aluminium makes it suitable for use in power cables?

- A Aluminium has a low density.
- B Aluminium has low strength.
- C Steel is a good conductor of heat.
- D Steel is resistant to corrosion.

7 Which uses of the metals shown are correct?

	aluminium	stainless steel
A	aircraft bodies	car bodies
B	car bodies	aircraft bodies
C	chemical plant	food containers
D	food containers	cutlery

8 Which row links a property of aluminium to its stated use?

	property	use
A	high strength	food containers
B	resistance to corrosion	food containers
C	high density	manufacture of aircraft
D	good electrical conductivity	manufacture of aircraft