Design & Technology

Alloying

Materials required for questions

- Pencil
- Rubber
- Calculator

Instructions

- Use black ink or ball-point pen
- Try answer all questions
- Use the space provided to answer questions
- Calculators can be used if necessary
- For the multiple choice questions, circle your answer

Advice

- Marks for each question are in brackets
- Read each question fully
- Try to answer every question
- Don't spend too much time on one question

Good luck!

Α	Copper	
В	Zinc	
С	Brass	
Q2. How are particles bonded together in metals?		
Α	Covalent bonds	
В	Attractive forces between positive and Negative ions	
С	Attractive forces between atoms and delocalised electrons	
Q3. What is an alloy?		
A	A mixture of 2 or more elements, where at least 1 is a metal	
В	A mixture of 3 or more elements, where at least 1 is a metal	
С	A compound of 2 or more elements Where at least 1 element is a metal	

Q1. Which one of the following materials is an alloy?

Q4. Which of these statements about alloys is correct?		
Α	Most alloys are less useful than the Individual elements that they are made from	
В	Most alloys are harder than the individual Elements that they are made from	
С	Most alloys are softer than the individual Elements that they are made from	
Q5. Which of these materials is an alloy?		
Α	Steel	
В	Iron	
С	Aluminium	
Q6. Carbon steel is made from carbon and which other material?		
Α	Copper	
В	Iron	
С	Brass	
Q7. Which one of the following is iron alloyed with to make mild steel?		
Α	Zinc	
В	Carbon	
С	Aluminium	

Q8. Which one of the following not an alloy?

A Solder

B Bronze

C Nickel

Answers

- Q1. C
- Q2. C
- Q3. A
- Q4. B
- Q5. A
- Q6. B
- Q7. B
- Q8. C