

Name _____

Class _____

14: Metallic elements and alloys

1 What type of bonding exists in metals?

2 Describe and explain the high melting point of most metals.

3 Explain why metals are good conductors of heat and electricity but insulators are not.

4 Figure 14.2 shows the sword of Goujian, which is dated around 771–403 BC. The sword is made from bronze.

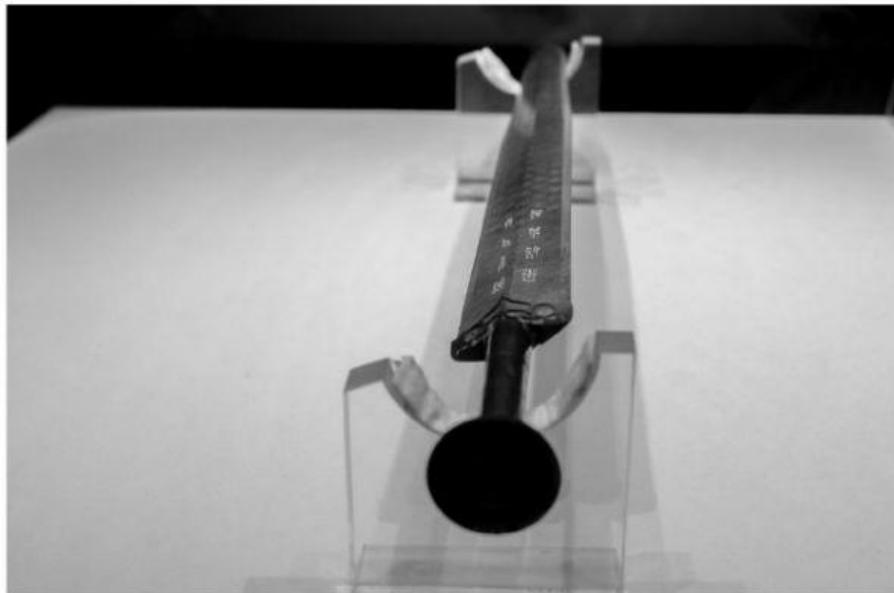


Figure 14.2

a Define what an alloy is.

b What metals are used to make bronze?

c Explain why bronze is a better choice to make a sword than pure copper. Include in your answer:

- A difference between a pure metal and an alloy.
- An explanation of why an alloy and a pure metal have different properties.
