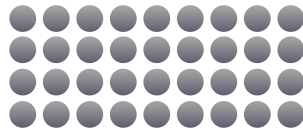


1 Copper is a metal that can easily be shaped. It is a good conductor of heat and electricity. Its properties as a conductor of heat and electricity make it ideal for making electrical circuits and for utensils like saucepans.

The diagram below is a representation of the particles in copper metal.



1 (a) (i) Explain why copper can be easily shaped.

.....
.....
.....

(2 marks)

1 (a) (ii) Pure metals such as copper are often soft. Mixing two metals together can make an alloy. An alloy is often harder than a pure metal.

Explain why alloys are often harder than pure metals. You may use a diagram if you wish.

.....
.....
.....
.....

(2 marks)

1 (b) Explain why copper is a good conductor of electricity.

.....
.....
.....
.....
.....

(3 marks)

Total (7 marks)

Login or subscribe to my-GCSEscience.com to see the answers and commentary.