

1. The picture shows a piece of aluminium metal. Aluminium is an element.



- 1 (a) Explain how the particles in a piece of aluminium metal are held together and how the shape of the metal can be changed without it breaking.

You may use a diagram in your answer.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(5 marks)

- 1 (b) Explain why metals are good conductors of electricity and suggest why this conductivity increases across the periodic table from sodium to magnesium to aluminium.

.....

.....

.....

.....

.....

.....

(4 marks)

**(Total 9 marks)**