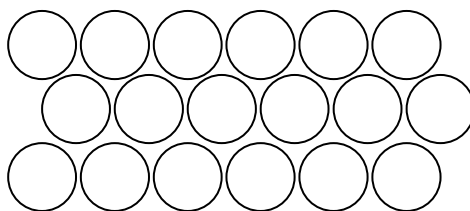


METAL ALLOYS

The diagram below shows how the metal atoms are arranged in a metallic element.



a) Describe the arrangement of the atoms in this metallic element.

b) Pure metals are usually described as being malleable and ductile.

i) Explain the meaning of the word *malleable*.

ii) Explain the meaning of the word *ductile*.

c) Draw a diagram, similar to the one shown above, to represent the structure of an alloy.

d) Explain how the structure of the alloy is different to that of the metallic element.

e) List the names of three different metal alloys and state which metals and other elements are contained in each alloy.
