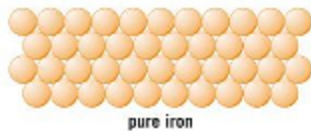
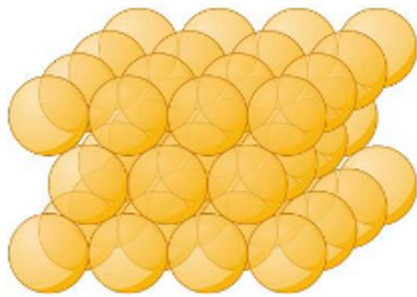


Metallic Bonds

25 November 2019 16:03

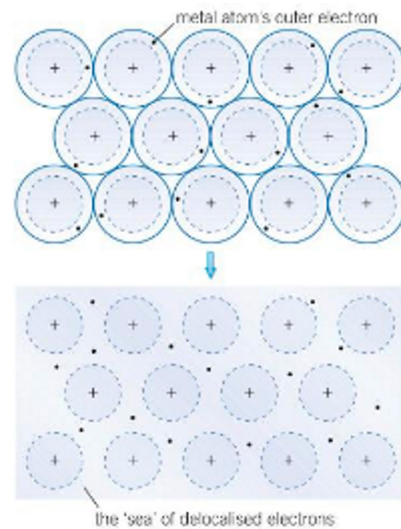


pure iron



iron alloy

Figure 1 The atoms in pure iron are arranged in layers, which can easily slide over each other. In alloys, the layers cannot slide so easily, because atoms of other elements distort the layers



Making models of metals

We can make a model of the structure of a metal by blowing small bubbles onto the surface of a soap solution to represent atoms.

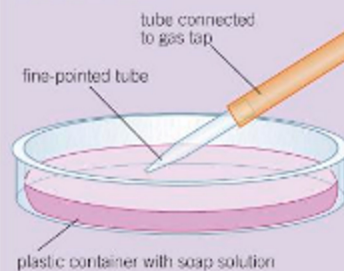
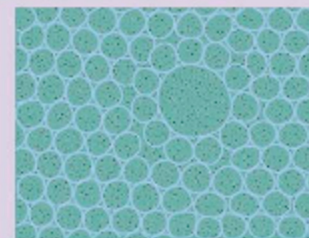


Figure 2 Making a bubble raft to model the structure of a metal



A regular arrangement of bubble 'atoms'



A larger bubble 'atom' disrupts the regular arrangement around it

- Why are models useful in science?