

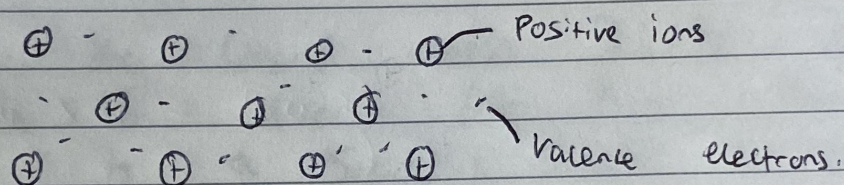
Ichen Morgan Muck Exam
(2014/2018)

2)

(Bear Sent by email)

3)

a) Metallic bonding is seen as a cloud of positively charged ions within a cloud of valence electrons.



The valency determines the number of atoms that are reacting twice each other in compounds. Metals with a valency of two are generally stronger than those that have one. This is due to having more 'free electrons' and are capable of adding more to the metallic bond, therefore strengthening the metal.

b) Left Crystal Structure = Body Centred Cubic (BCC)
~~Left~~ Right Crystal Structure = Simple Cubic Crystal.

c) FCC = 0.74
HCP = 1.633
BCC = 0.68.