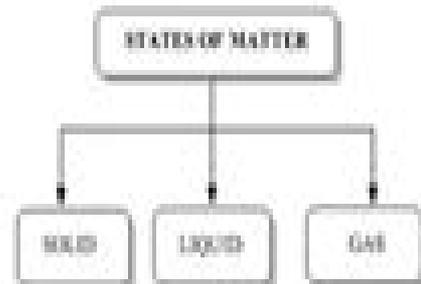


# SOLID STATE

**Matter** - Everything in our surroundings is known as matter that can be in three states. In our day to day life solids play a crucial role to pursue different



## Types of Solids

**(a) Crystalline solids:** In a single crystal the regularity of arrangement of the pattern extends throughout the solid and all points are completely equivalent, as NaCl.

## Close Packing in Three Dimensions

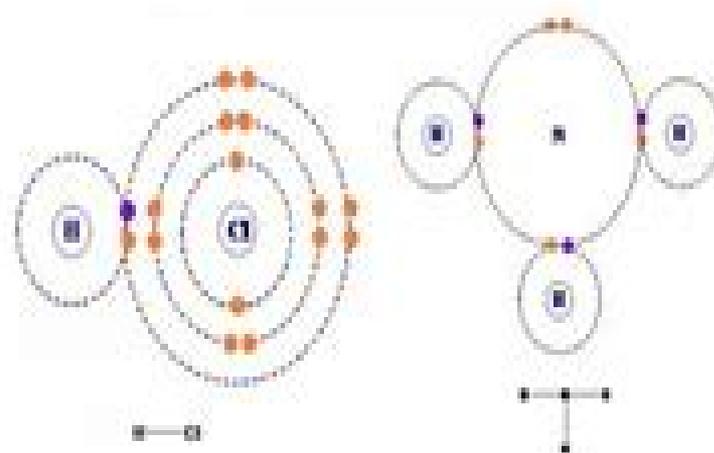
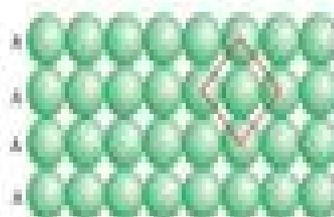
All real structures are three dimensional structures that are obtained by stacking two dimensional layers one above the other in a square close-packed and hexagonal close-packed manner. It can be categorized into two types:

## Three dimensional close packing from two dimensional square close-packed layers

The second layer is placed over the first layer in such a way that the spheres of the upper layer are exactly above those of the first layer in this arrangement of spheres, both the

Stacking can be done in two ways....

- AAA Pattern:** The second row can be placed in contact with the first row in such a way that the spheres of second row are exactly above the first row. The spheres of the two rows are aligned horizontally as well as vertically. Let the first row be 'A' type row and the second row is also of 'A' type due to its similarity with the first one. This type of arrangement is called AAA pattern also known as square close packing (SCP). Each sphere is in contact with four of its surrounding ones. Thus, coordination number is 4.



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**Yan Bai**



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