

Symmetry in Nature, Applications of Symmetry

Homework Assignment Week 8

1. Define the following terms.
 - crystalline solid
 - amorphous solid
 - crystal lattice
 - unit cell
 - closest packing
2. Select the best response.
 - The size of an anion is greater than/ less than its atom.
 - The size of a cation is greater than/ less than its atom.
3. Fill in the required information

crystalline solid	component at the lattice point	type of bonding	example
metal			
ionic compound			
atomic solid			
molecular solid			

4. Draw the structure of ice to show how bonds are arranged to provide a hexagonal structure.