Seven unique Bravais lattice classes based on point symmetry (subset of 14 total unique Bravais lattices)











a =*b*=*c* α=β=γ<90°

Cubic Crystal Class



Two Possible Sets of Primitive Lattice Vectors for bcc Lattice (there are many others too)



Lattice with a Basis (1)

CsCl Structure: Two interpenetrating bcc lattices, each with different atom



Lattice with a Basis (2)

Diamond Structure: Two interpenetrating fcc lattices, each with same atom



Lattice with a Basis (3)

Zincblende: Two interpenetrating fcc lattices with different atoms on each

