Crystal	Solid in which the particles of which it is composed (atoms, ions, molecules) are arranged in a regular 3D structure
Sodium chloride or any alkali halide such as potassium fluoride	Example of ionic crystal
Iodine, ice or solid carbon dioxide	Example of molecular crystal
Quartz	Example of covalent macromolecular crystal

Sodium or copper or iron	Example of metallic crystal
Buckminsterfullerine	Allotrope of carbon containing 60 atoms covalently bonded together
William and Lawrence Bragg	Used diffraction patterns to determine crystal structure
Dorothy Hodgkin	This scientist worked out the structure of pencillin using X-ray crystallography

Polymer

Made up of many monomers

Low density polythene

Used in plastic shopping bags

High density polythene Used in plastic buckets and lunch boxes

PVC

Used in gutters and garden hoses

Polystyrene	Used in packaging and insulation
Teflon	Used in non-stick frying pans and plumber's tape
Polypropene	Used in stacking chairs
Fawcett and Gibson	They discovered polythene

Karl Ziegler	Discovered High density polythene
Roy Plunkett	Discovered PTFE
Properties of metals	Malleable, ductile, have lustre and are good conductors of heat and electricity
Alloy	A mixture of at least two elements, at least one of which must be a metal.

Brass

Made from copper and zinc

Bronze

Made from copper and tin

Stainless steel

Made from iron, nickel, chromium and carbon