## Chemguide - questions

## WORKING OUT THE TYPE OF STRUCTURE

For each of the labelled substances in the table, use the information to work out which type of structure it has – ionic, giant covalent, metallic or molecular. See what else you can deduce as well.

	M. Pt (°C)	B. Pt (°C)	effect of water	effect of electricity	other
A	98	890	Violent reaction giving a colourless solution and a gas	conducts electricity	soft shiny solid, tarnishing rapidly in air
В	3730 (sublimes)		insoluble; no reaction	conducts electricity	dark grey, flaky solid
С	-117	78	soluble	non-conductor	
D	5.5	80	insoluble; no reaction	non-conductor	soluble in organic solvents like hexane
E	747	1390	soluble	solid is non- conductor; molten E undergoes electrolysis	brittle crystals
F	44	280	insoluble; no reaction	non-conductor	soft yellowish solid
G	1610	2230	insoluble; no reaction	non-conductor under any conditions	
Н	186	-	soluble	non-conductor	white solid; chars on heating above M. Pt
Ι	373	916	insoluble; no reaction	solid is non- conductor; molten I undergoes electrolysis	white powder
J	-39	357	insoluble; no reaction	conducts electricity	