

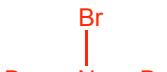
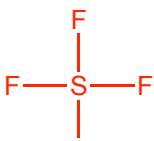
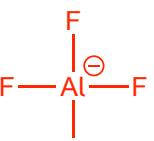


# **STRUCTURE & BONDING (A)**

- 1** Give the formula and structure type of the following substances. (8)

Name	Formula	Structure type				
		Monatomic	Molecular	Giant covalent	Ionic	metallic
potassium oxide	$K_2O$				✓	
diamond	C			✓		
oxygen	$O_2$		✓			
sodium	Na					✓
argon	Ar	✓				
ammonia	$NH_3$		✓			
magnesium hydroxide	$Mg(OH)_2$				✓	
chromium(III) nitrate	$Cr(NO_3)_3$				✓	

- 2** Draw stick and dot-cross diagrams for each of these molecules and ions. (6)

Molecule / ion	$\text{NBr}_3$	$\text{SF}_4$	$\text{AlF}_4^-$
Stick diagram			
Stick diagram	