

Name:

### **Bonding basics – Covalent bonds**

Complete the chart for each element

Element	No. of protons	No. of electrons	No. of outer electrons	No. of electrons to fill outer shell
Carbon				
Chlorine				
Hydrogen				
Phosphorus				
Oxygen				
Sulphur				
Nitrogen				

Draw dot and cross diagrams to complete each covalent bond

(1) Hydrogen + Hydrogen

(2) Hydrogen + Oxygen

Name:

(3) Chlorine + Chlorine

(4) Nitrogen + Hydrogen

(5) Phosphorus + Chlorine