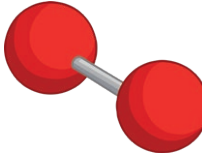
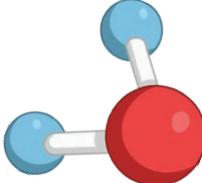
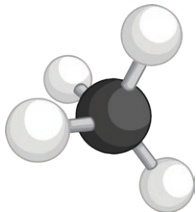
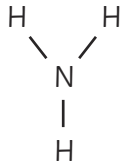


Building and Drawing

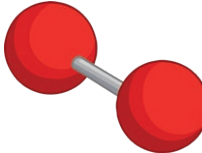
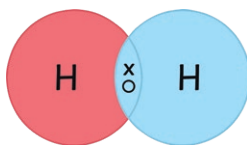

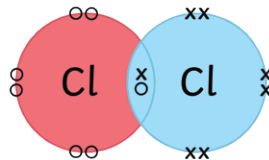

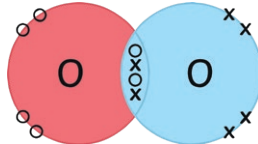
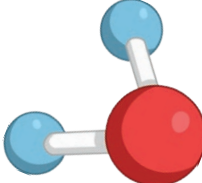
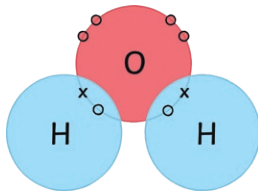
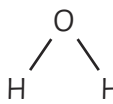
For each simple molecule, follow the headings in the table to firstly identify the elements present, then locate them on the periodic table to know the electronic configuration, build it using the molecular model kit, and finally draw the covalent bond in different ways.

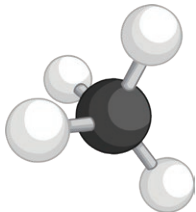
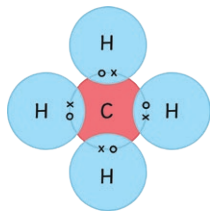
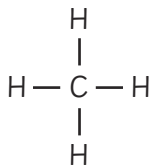
Name and Formula of Simple Molecule	Location(s) of Element(s) on the Periodic Table	Build it Using the Molecular Model Kit and Draw the 3D Model	Draw a Dot and Cross Diagram	Draw the Displayed Formula (With straight lines!)
hydrogen (H ₂)				H - H
chlorine (Cl ₂)				
oxygen (O ₂)				O = O
water (H ₂ O)	Hydrogen is in group ____. Oxygen is in group ____.			

methane (CH ₄)	Carbon is in group ____. Hydrogen is in group ____.			
ammonia (NH ₃)	Nitrogen is in group ____. Hydrogen is in group ____.			

Building and Drawing Answers

For each simple molecule, follow the headings in the table to firstly identify the elements present, then locate them on the periodic table to know the electronic configuration, build it using the molecular model kit, and finally draw the covalent bond in different ways.

Name and Formula of Simple Molecule	Location(s) of Element(s) on the Periodic Table	Build it Using the Molecular Model Kit and Draw the 3D Model	Draw a Dot and Cross Diagram	Draw the Displayed Formula (With straight lines!)
hydrogen (H ₂)	Hydrogen is in group 1 (but does not share the characteristics of group 1 alkali metals).			H - H
chlorine (Cl ₂)	group 7			Cl - Cl
oxygen (O ₂)	group 6			O = O
water (H ₂ O)	Hydrogen is in group 1. Oxygen is in group 6.			

methane (CH ₄)	Carbon is in group 4. Hydrogen is in group 1.			
ammonia (NH ₃)	Nitrogen is in group 5. Hydrogen is in group 1.	