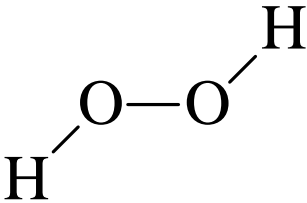
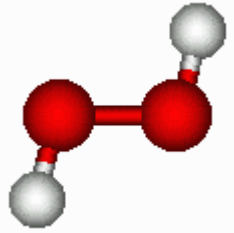
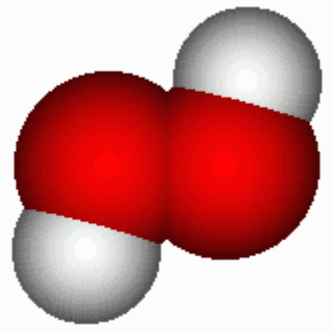


Representations for Elements & Compounds

empirical formula	HO	<ul style="list-style-type: none"> • simplest type of formula • indicates <i>relative</i> number of atoms of each element present using atomic symbols and subscripts
molecular formula	H ₂ O ₂	<ul style="list-style-type: none"> • indicates actual number of atoms of each element present using atomic symbols and subscripts
structural formula		<ul style="list-style-type: none"> • indicates actual number of atoms of each element present using atomic symbols • indicates how the atoms are connected (bonded) using sticks • may or may not indicate actual shape of molecule
ball & stick model		<ul style="list-style-type: none"> • indicates actual number of atoms of each element present using (colored) spheres • indicates how the atoms are connected (bonded) using cylinders • usually indicates actual shape of molecule • usually indicates relative sizes of the atoms but distances between atoms exaggerated
space-filling model		<ul style="list-style-type: none"> • indicates actual number of atoms of each element present using (colored) overlapping spheres • does not show chemical bonds explicitly • usually indicates actual shape of molecule • indicates relative sizes of the atoms and accurately represents distances between atoms