Quiz 10.1 – Molecular Shapes and Symmetry Groups

Name:	
Symmetry Operations	
List and briefly describe all symmetry operations	
	ombinations of other operators. For example, three consecutive ransformation as i . There is also one single operator which is
Symmetry Groups	
Assign each molecule or ion to a symmety point §	group
o CO ₂	∘ CH ₄
∘ NO ₃ [−]	∘ NH ₃
o PCl ₅	o SF ₄
\circ SF $_6$	o ClF ₅
\circ XeF $_4$	$\circ C_2H_6$ (staggered conformation)
o CH ₂ CCH ₂	∘ C ₁₀ H ₈ (naphthalene)

When You See Water

By Alice Walker

When you see water in a stream you say: oh, this is stream water; When you see water in the river you say: oh, this is water of the river; When you see ocean water you say: This is the ocean's water! But actually water is always only itself and does not belong to any of these containers though it creates them. And so it is with you.