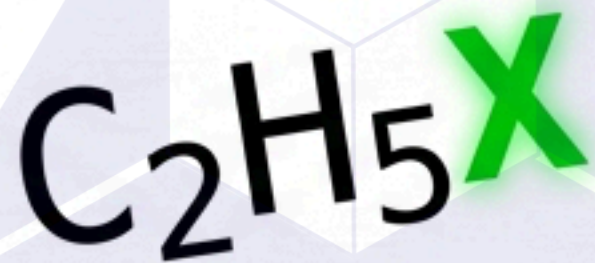


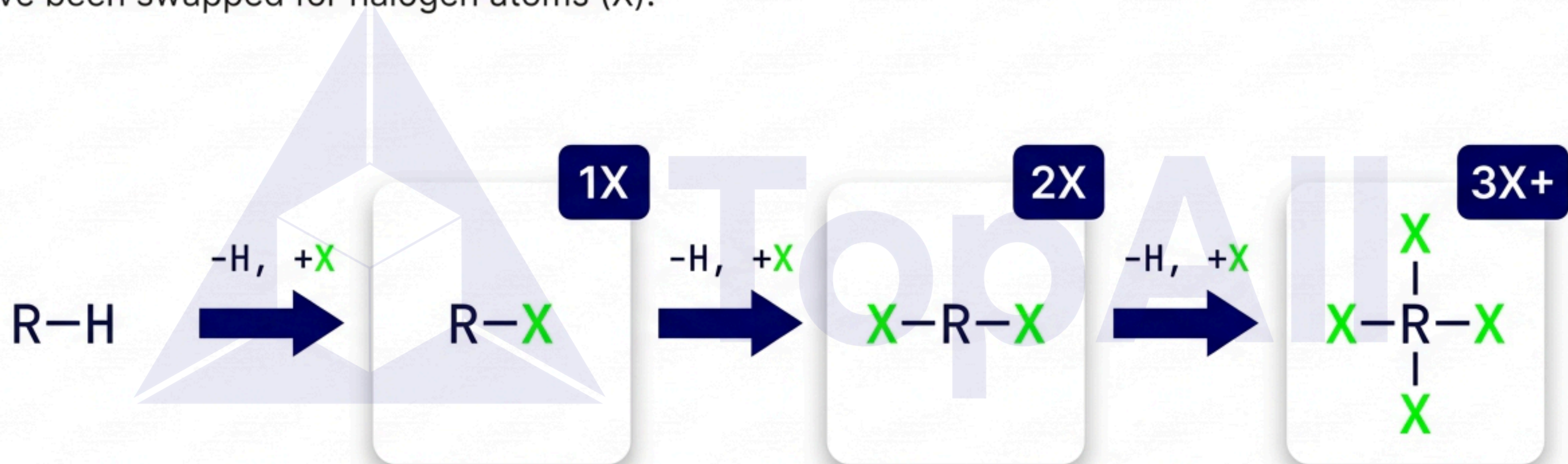
Mono, Di and Polyhalogen Compounds

Classification by Number of Halogen Atoms



The Governing Rule: Count the Halogens

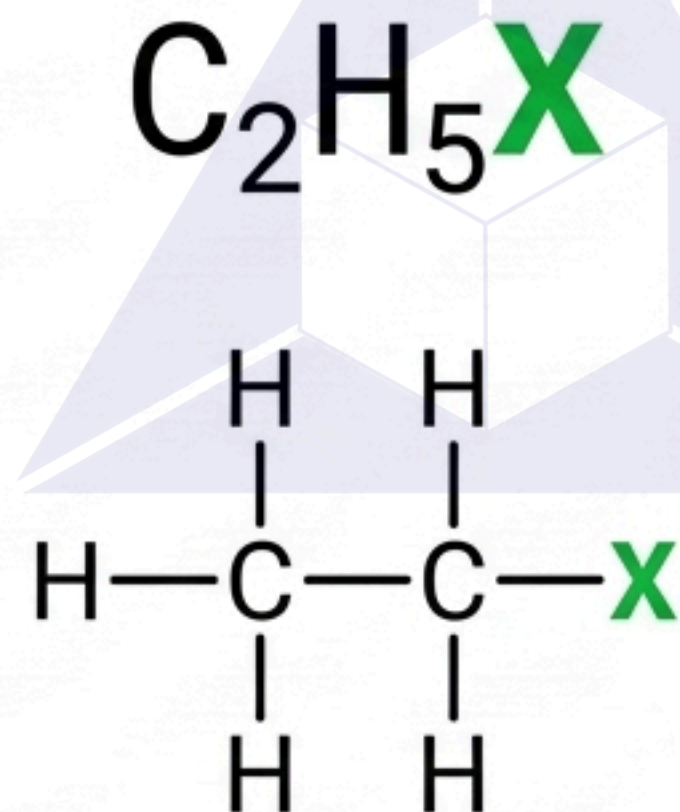
Halogenated compounds are classified entirely by how many hydrogen atoms have been swapped for halogen atoms (X).



Monohalogen Compounds

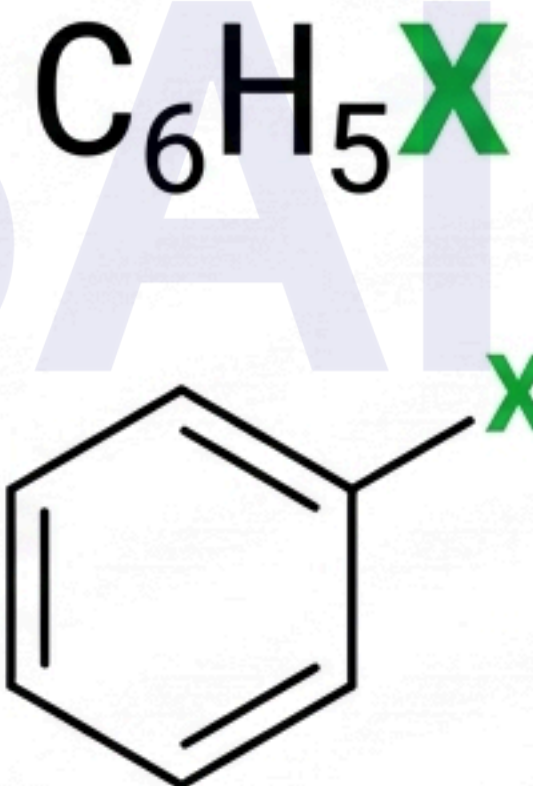
1X

Haloalkane (Alkyl Halide)



Exactly one halogen atom per molecule.

Haloarene (Aryl Halide)





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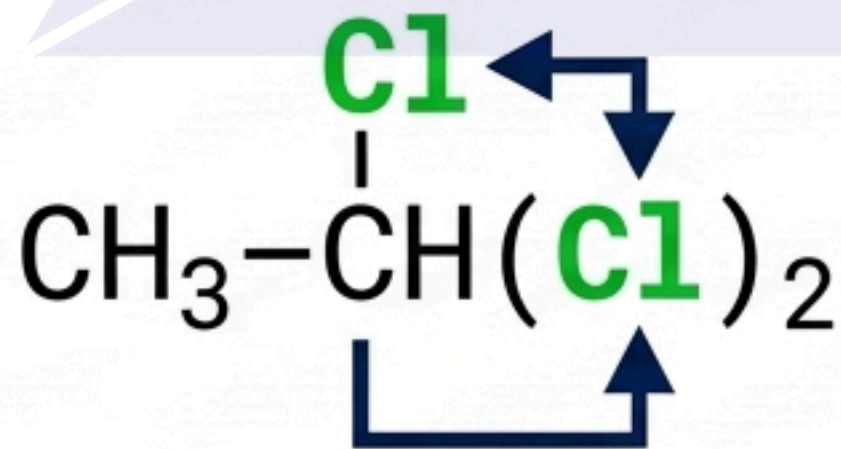


Dihalogen Compounds: Placement Matters

2X

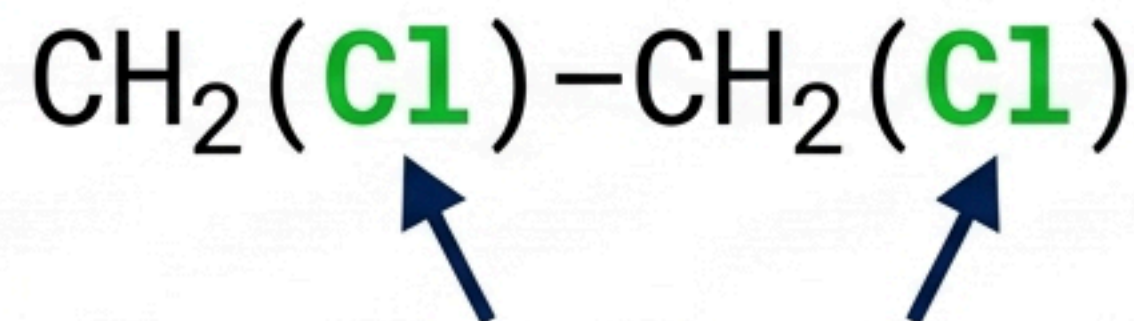
Geminal Halides (gem-dihalides)

Both halogens on the same carbon atom (Alkylidene halides).



Vicinal Halides (vic-dihalides)

Halogens on adjacent carbon atoms (Alkylene dihalides).



Polyhalogen Compounds

3X+

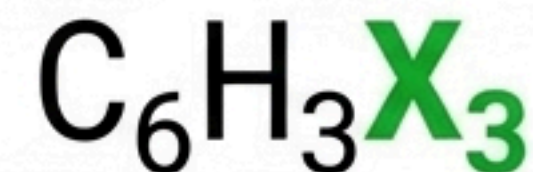
Chloroform
(Trichloromethane)



Carbon tetrachloride
(Tetrachloromethane)



Trihalobenzene



Environmental Alert: Many polyhalogen compounds (like freons and DDT) persist in the environment due to their resistance to breakdown by soil bacteria.



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Quick Exam Sorting Board

Mono (1X)	Di (2X)	Poly (3X+)
$\text{CH}_3\text{CH}_2\text{Br}$	CH_2Cl_2 (Methylene chloride)	CHCl_3
$\text{C}_6\text{H}_5\text{Cl}$	$\text{CH}_3\text{CH}(\text{Cl})_2$	CCl_4
CH_3I		$\text{C}_6\text{H}_3\text{Cl}_3$

✓ Categorization is strictly based on the green atom count.



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