
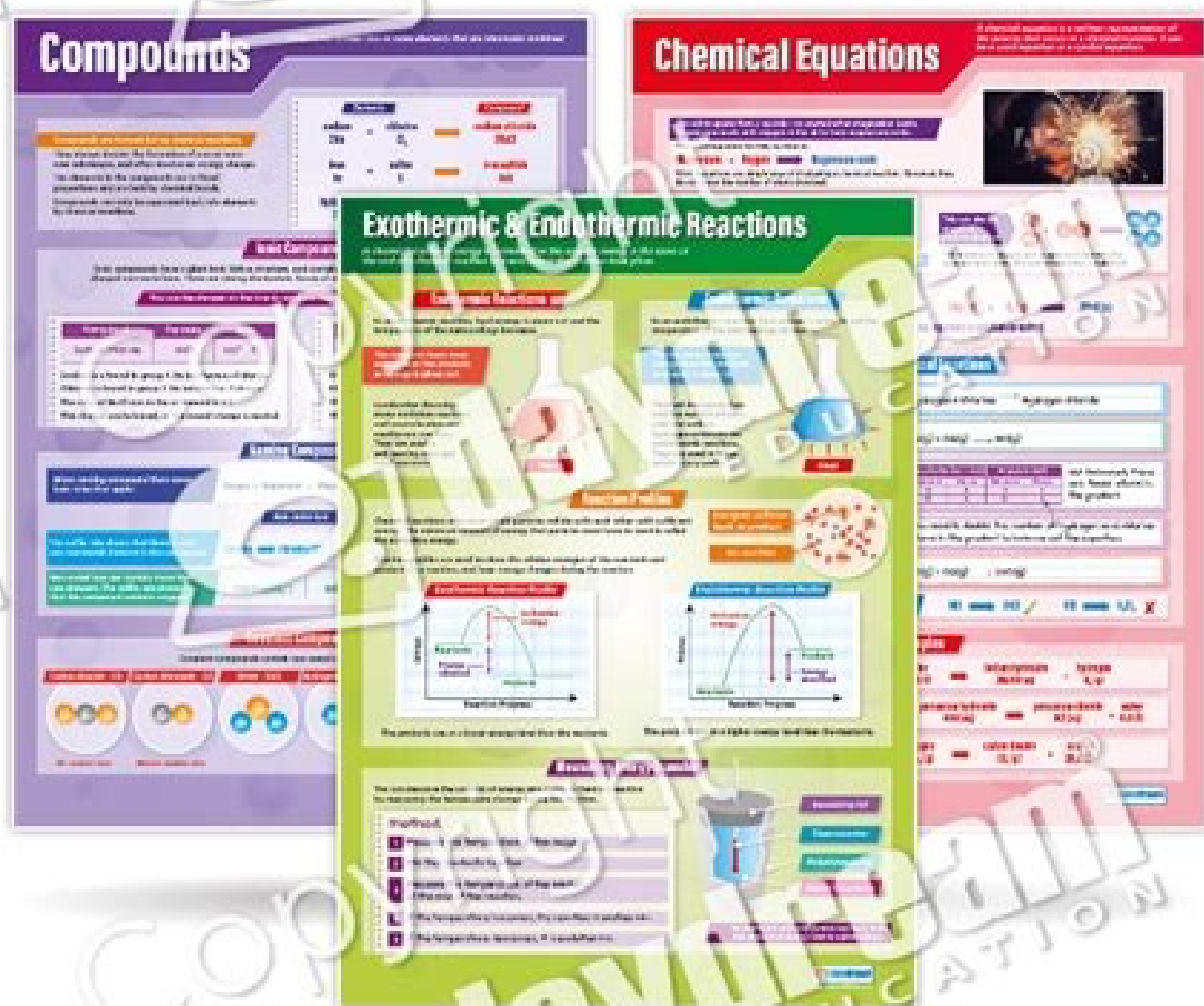


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Organic Chemistry

All organic molecules contain carbon. Carbon atoms can:

- bond with each other to make vast chains and rings
- form single, double or even triple bonds with other carbon atoms
- bond with atoms of other elements, such as hydrogen, oxygen, nitrogen and the halogens

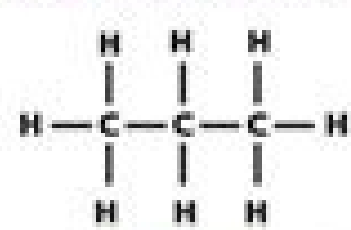
Naming Organic Molecules

To name organic molecules, you need to know three things:

1. Length of Carbon Chain

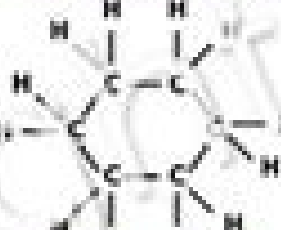
Carbon compounds are named after their longest, unbranched carbon chain, the parent chain. The longer the chain, the stronger the van der Waals forces between molecules, which increases the melting point, boiling point and viscosity.

Straight chain (aliphatic)



Propane

Cyclic (alicyclic)



Cyclohexane

Number of Carbon Atoms	Prefix
1	Meth-
2	Eth-
3	Prop-
4	But-
5	Pent-
6	Hex-
7	Sept-
8	Oct-
9	Nona-
10	Dec-

2. Branches – Some molecules have additional carbon atoms attached to the parent chain. These additional atoms form branches.

3. Functional Groups

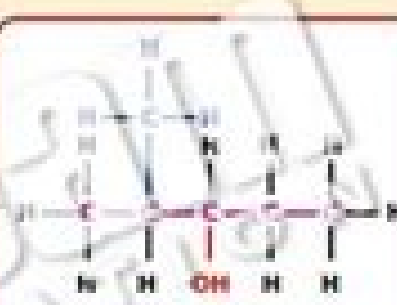
Every organic compound has a dominant functional group that dictates its properties.

Functional Group	Alkane	Alkene	Alcohol	Halo	Aldehyde	Ketone	Carboxylic Acid
Formula	C-C	C=C	-OH	-F, -Br, -Cl, -I	$\begin{array}{c} \text{O} \\ \\ \text{C}-\text{H} \end{array}$	$\begin{array}{c} \text{O} \\ \\ \text{C}-\text{C}-\text{C} \end{array}$	$\begin{array}{c} \text{O} \\ \\ \text{C}-\text{OH} \end{array}$
Prefix or Suffix	-ane	-ene	-ol	Fluoro-, Bromo-, Chloro-, Iodo-	-al	-one	-oic acid

For Example: 2-Methylpentan-3-ol

1. Length of Carbon Chain – Provide the main body of the name. This molecule has five carbons in its longest straight chain, so we use **pent**.

2. Branches – Provide a prefix based on the number of carbon atoms the branch contains. A branch's position is indicated using a number to show which carbon atom it is attached to, this is always the lowest possible number. This molecule has a branch (CH₃, methyl) on the second carbon atom, so we use the prefix **2-methyl**.



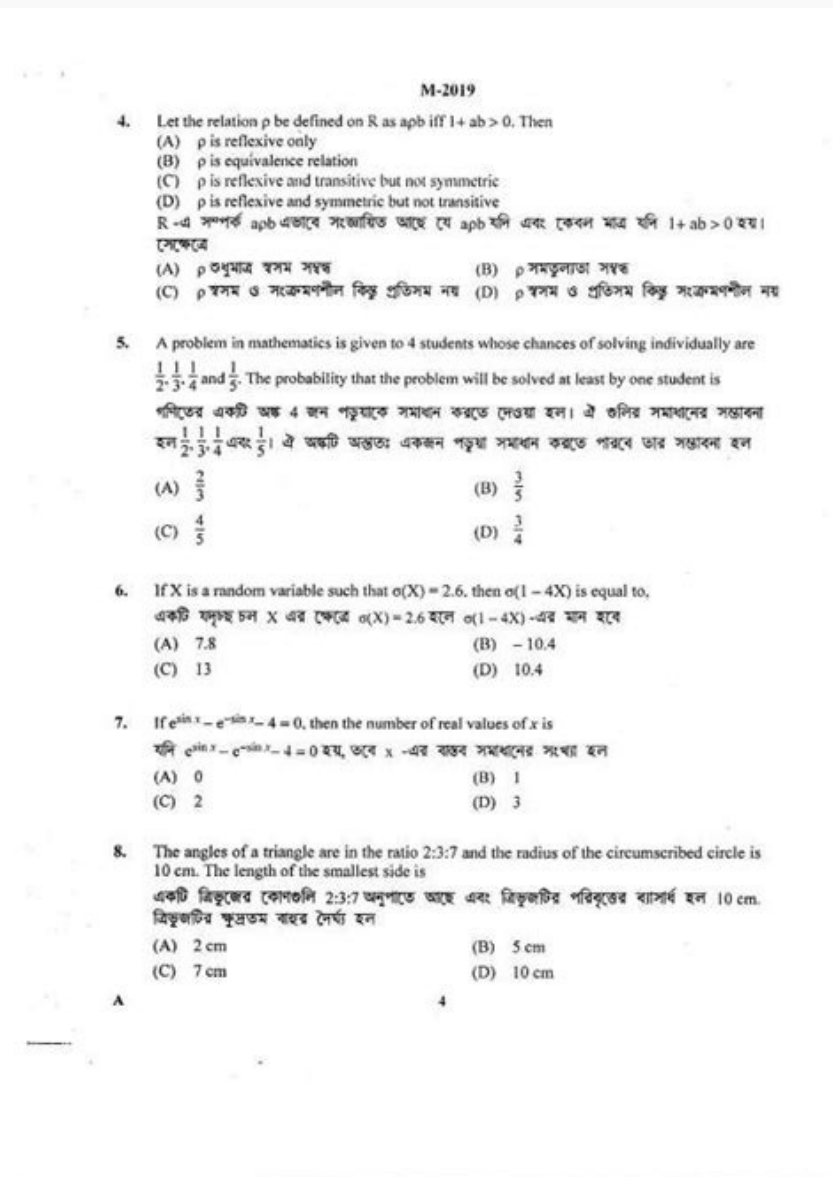
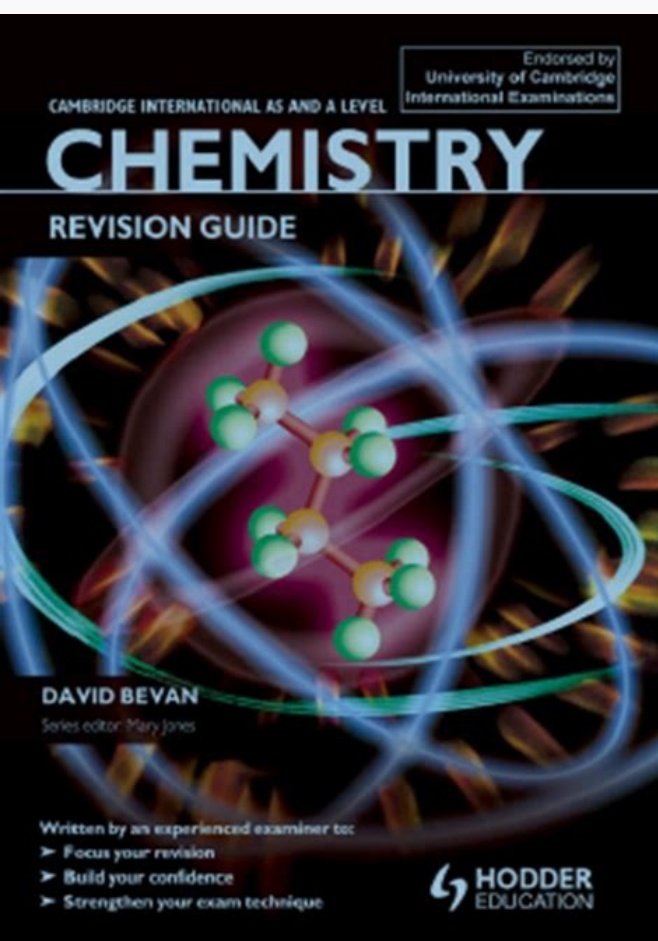
2-Methylpentan-3-ol

3. Functional Groups – Provide a suffix, or a prefix for halo groups. The position of the functional group is also given where possible. This molecule has an -OH (alcohol) group on its **third** carbon atom, so we use the suffix **3-ol**. (Note that a halogen functional group provides a prefix. As such, any other groups the molecule contains will give it its suffix.)

20. Light of wavelength 5000 \AA in air has wavelength in glass ...
 Ans : 3333 \AA
21. A charge Q is placed at the centre of the line joining two equal charges q
 Ans : $-\frac{q}{4}$
22. A capacitor is kept connected to a battery and a dielectric slab is inserted between
 Ans : Work is done at the cost of the battery
23. When two identical capacitors are in series, they have $4 \mu\text{F}$ capacitance ...
 Ans : $8 \mu\text{F}$
24. A coil of emf 4 V and internal resistance 0.2Ω is connected with the resistance of
 Ans : 3.6 V
25. At certain place, horizontal component is $\frac{1}{\sqrt{3}}$ times the vertical component
 Ans : 60°
26. In a tangent galvanometer, a current of 0.2 A produces a deflection of 30° .
 Ans : 0.6 A
27. If we consider electrons and protons of the same wavelength, they will have the same ...
 Ans : Momentum
28. The momentum of a proton is $2.5 \times 10^{-23} \text{ kg ms}^{-1}$.
 Ans : $1.14 \times 10^{13} \text{ Hz}$
- Note : Must be photons and not protons
29. On the bombardment of neutron with boron, an α particle is emitted....
 Ans : ${}_{6}^{12}\text{C}$
30. When cathode rays enter into a uniform magnetic field perpendicular to the direction of
 Ans : Circular
31. The pulleys and strings shown in figure are smooth and of negligible mass....
 Ans : 45°
32. In the Boolean expression, which gate be expressed as $Y = \bar{A} \cdot \bar{B}$?
 Ans : NAND gate
33. The current gain of the transistor in the common base mode is 0.9
 Ans : 9
34. If the base and the collector of a transistor are in forward bias, then
 Ans : All of these
35. The refractive index of the material of a prism is 2 . What is the maximum possible ...
 Ans : 60°

Part 2 - Chemistry

36. Which one is diamagnetic molecule / ion ?
 Ans : O_2^{2-}
37. Which of the following is called a polyamide ?
 Ans : nylon
38. How many moles of magnesium phosphate $\text{Mg}_3(\text{PO}_4)_2$ will contain 0.25 mole of
 Ans : 3.125×10^3
39. A pressure cooker reduces cooking time for food because ...
 Ans : boiling point of water involved in cooking is increased
40. Consider the reaction $\text{CaCO}_3 \rightleftharpoons \text{CaO} + \text{CO}_2$ in closed container at
 Ans : remains unaffected



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