

# Nobel - OCR: Chemistry Unit 2 – Chains, Energy and Resources

(a) Interpret and use the terms:

(i) Empirical formula = simplest whole number ratio of atoms of each element present in a compound

(ii) Molecular formula = actual number of atoms of each element in a molecule,

(iii) General formula = simplest algebraic formula of a member of a homologous series

|             |                 |
|-------------|-----------------|
| Alkane      | $C_nH_{2n+2}$   |
| Alkene      | $C_nH_{2n}$     |
| Alcohol     | $C_nH_{2n+2}OH$ |
| Cycloalkane | $C_nH_{2n}$     |
| Cycloalkene | $C_nH_{2n-2}$   |
| Haloalkane  | $C_nH_{2n+2}X$  |

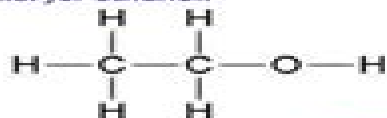
(iv) Structural formula = minimal detail that shows the arrangement of atoms in a molecule

E.g. Butane:

$CH_3CH_2CH_2CH_3$  or  $CH_3(CH_2)_2CH_3$ .

(v) Displayed formula = relative positioning of atoms and the bonds between them,

i.e. for ethanol:



(vi) Skeletal formula = simplified organic formula, shown by removing hydrogen atoms from alkyl chains, leaving just a carbon skeleton and associated functional group

ie for butan-1-ol:



(b) Interpret, and use, the terms:

(i) homologous series = a series of organic compounds having the same functional group but with each successive member differing by  $CH_2$ .

(ii) functional group = a group of atoms responsible for the characteristic reactions of a compound;

(c) Use the general formula of a homologous series to predict the formula of any member of the series;

E.g – Alkane =  $C_nH_{2n+2}$

If  $C = 9$ ,  $H = (9 \times 2) + 2$

Therefore =  $C_9H_{20}$  = Nonane

(d) State the names of the first ten members of the alkane homologous series;

| No of Carbons | Alkyl Group |
|---------------|-------------|
| 1             | Methyl      |
| 2             | Ethyl       |
| 3             | Propyl      |
| 4             | Butyl       |
| 5             | Pentyl      |
| 6             | Hexyl       |
| 7             | Heptyl      |
| 8             | Octyl       |
| 9             | Nonyl       |
| 10            | Decyl       |

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**Emilie Sanchez**



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