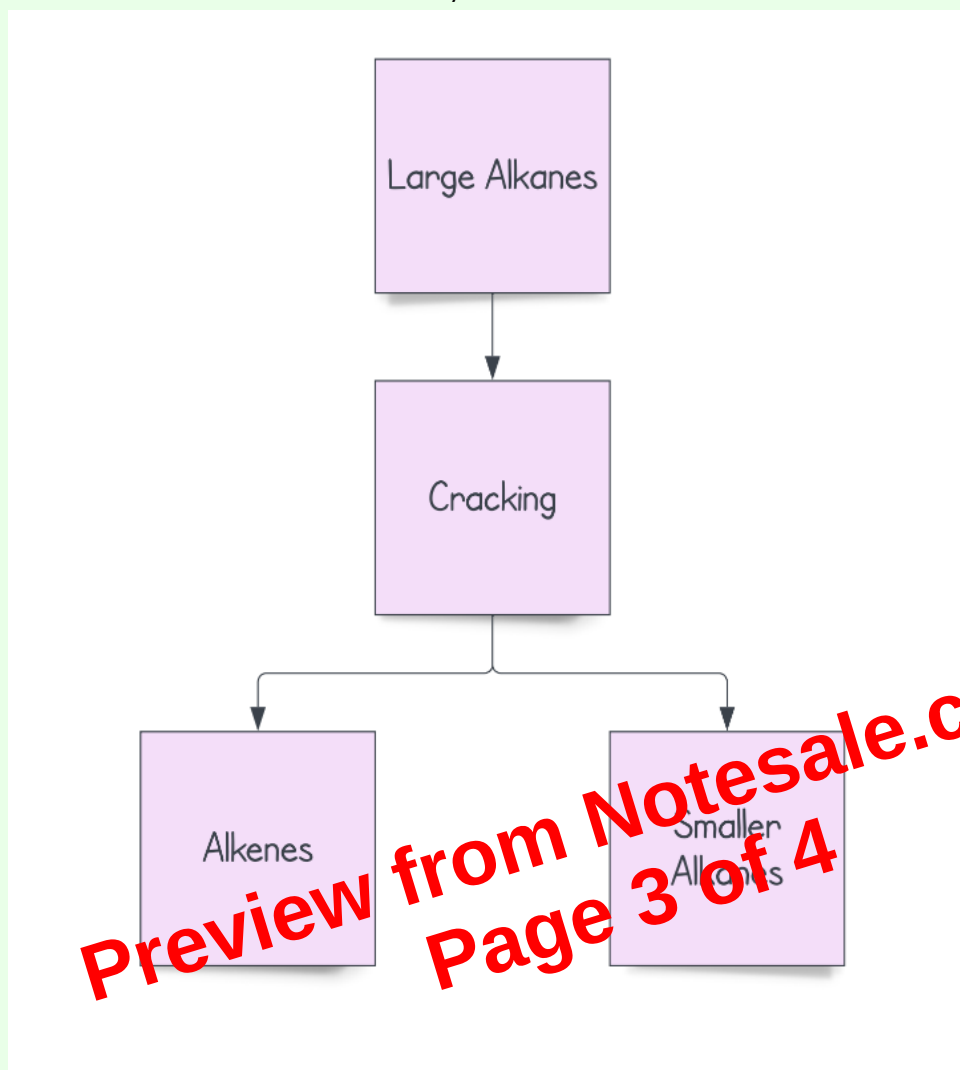


Breaking down Hydrocarbons

Cracking - using heat and a catalyst to break down large, saturated hydrocarbons into smaller more useful unsaturated hydrocarbons.



Homologous series - A family of compounds that have the same general formula and similar properties but have different numbers of carbon atoms.

Questions

Q7. There are some very large alkanes. Give the formula of the alkane with 100 carbons in it.

Q8. Would you expect the alkane with 100 carbons in room temperature to be solid liquid or gas?

Q9. Describe two differences between the structural formulae of butane and pentane.

Q10. Explain why alkanes can be described as hydrocarbons.

Q11. Give the molecular formula for octane.

Q12. Why can burning fuels in a lack of oxygen cause problems?