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| **What will we be learning?**C7- Organic Chemistry | **Why this? Why now?****Previous learning** Rate and extent of chemical change, chemical changes**What other GCSE Science units does this unit relate to?**Chemistry- Energy Changes, Structure and BondingBiology- BioenergeticsPhysics-Energy | **Key Words:**FiniteFossil fuelMixtureHydrocarbonHomologous SeriesAlkaneAlkeneFractionFractional DistillationViscosityFlammabilityVolatileComplete combustionOxidationCatalytic CrackingSteam CrackingPolymers |
| **What will we learn?*** Carbon compounds as fuels and feedstock

**Useful equations/formulae/maths skills for this unit:**General Formula for an alkane = CnH2n+2Methane = CH4 Ethane= C2H6 Propane=C3H8 Butane= C4H10Complete combustion: CxHy + O2→ CO2 + H2OBalancing Equations**Misconceptions in this topic**Remember that carbon can form 4 bonds. Take care when drawing the displayed formula that you have only drawn 4 lines from each carbon!Intermolecular molecules forces are the forces **between** molecules.Covalent bonds **are NOT broken** during fractional distillation.Covalent bonds **are broken** during cracking. |
| **What opportunities are there for wider study?****If you are interested in this unit, what careers does it relate to?**Pharmacist, Organic chemist, Food manufacturing, Plastics and paints, Petroleum industry, Biochemist, Biotechnologist, Analytical chemist, Forensic scientist, Industrial research chemist, Environmental consultant, Polymer chemist, Cosmetic scientist, Agricultural scientist**Collins Revision guide relevant pages for this unit:**Higher – P136-139, P154, P174Foundation – P132- 135, P150-151, P168 |
| **How will I be assessed?****EOTT** |