**UNIT OVERVIEW:** Aromatic Chemistry

**ENQUIRY:** How the structure of Benzene ring gives the unique properties of aromatic compounds?

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| **Unit intention:**To understand the unusual structure of benzene; understand the stability of the structure with the evidence of data; know how the ring of delocalized electrons makes it perform electrophilic substitution reactions. Finally, to learn the synthetic route and the properties of benzene derivatives.  |
| **Success criteria** | 🗸 | X |
| 1. I can use thermochemical evidence from enthalpies of hydrogenation to account for this extra stability of benzene ring.2. I can explain why substitution reactions occur in preference to addition reactions in benzene rings3. I can outline the electrophilic substitution mechanisms of: nitration, including the generation of the nitronium ion; acylation using AlCl3 as a catalyst.4. I can show all the reaction mechanisms that benzene and its derivative compounds undergo for different reactions. |  |  |
| **Unit summative and formative assessment details:**Mini mocksEnd of topic test |
| Preview of your QR Code**Home Learning (What and how often):**Seneca- 1 hour a weekPast exam paper practice.  |
| **Topic Sequence**1. Introduction to Arenes.
2. Physical properties and reactivity of Arenes.
3. Nitration of Benzenes and TNT
4. Fridel-Craft cylation of Benzene
5. Introduction to aromatic amines
6. Synthesis of aromatic amines
7. End of unit test
 | **Recommended reading:**  |

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| **Success criteria** – Have you met them? Show your evidence in the boxes below. |
| **1.** |
| **2.** |
| **3.** |
| **4.** |
| **5.** |
| **6.** |
| **How will you improve your work?** |

**End of Unit EVALUATION**