## Y13 – Arenes and Phenol Revision Checklist

Looked on the open drive for additional work

Asked my teacher for guidance

Confidence rating

Stick this checklist into your yellow book at the beginning of the to	pic. Tick off the topics as you cover	tnem.	
In this module you are expected to be able to		In Notes Revised	
Draw a bonding diagram to compare the structures of <b>Kekule's</b> and Benzene in terms of p-orbitals overlapping to form $\pi$ bonds	d the <b>delocalised</b> models of		
Describe three pieces of evidence to support the delocalised model of benzene in terms of the $intermediate$ bond lengths, the $\Delta H$ hydrogenation and resistance to electophilic addition			
Write a balanced equation for the <b>nitration</b> of benzene including t	he correct reagents and conditions		
Outline the mechanism for the nitration of benzene ( <b>electrophilic substitution</b> ) including equations for the formation of the $NO_2^+$ electrophile and the regeneration of the acid catalyst			
Write a balanced equation for the halogenation or alkylation of be halogen carrier as a catalyst	nzene describing the role of the		
Outline the mechanism for halogenation of benzene including equations to show the role of the halogen carrier in generating a positive electrophile			
Write balanced equations for the acylation of benzene to produce	a phenylketone		
Explain the resistance to bromination of benzene, compared to alkenes, in terms of the delocalised electron density of the $\pi$ bonds in benzene compared with the localised electron density of the C=C bond in alkenes			
Explain the relative <b>acidity</b> of phenol and hence describe reactions metals to form salts	of phenol with alkalis and group 1		
Write a balanced equation for the reaction of phenol with bromine describing the appearance of the organic product 2,4,6-tribromophenol			
Explain the relative ease of bromination of phenol compared with donation to the benzene ring from an oxygen p-orbital in phenol	benzene, in terms of electron-pair		
Recall the directing effect of $-OH$ , $NH_2$ and $NO_2$ groups, and use ap the effect of other groups.	propriate information to deduce		
Pre-test Evaluation			
I have			
Updated my yellow book notes			
Ensured I understand all of my notes			

I'm doomed!

I am the BOSS!

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