

Aromatic compounds are also known as arenes

Compounds containing a benzene ring

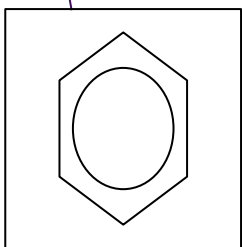
**Aromatic Compounds**

### 3.10 AROMATIC CHEMISTRY

**Bonding**

**Benzene**

Benzene has a planar ring of carbon atoms



The carbon-carbon bonds are all of the same length

The length of the bond lies between the length of a single C-C bond and a double C=C bond

One unpaired electron per carbon atom

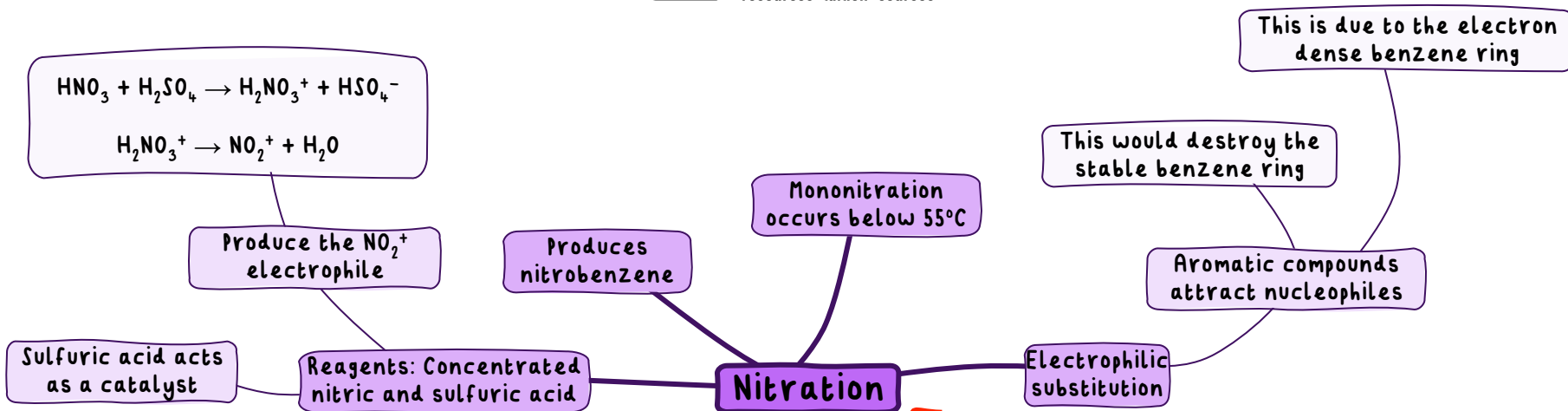
Forms a ring of delocalised electrons

The delocalised ring of electrons means benzene is very stable

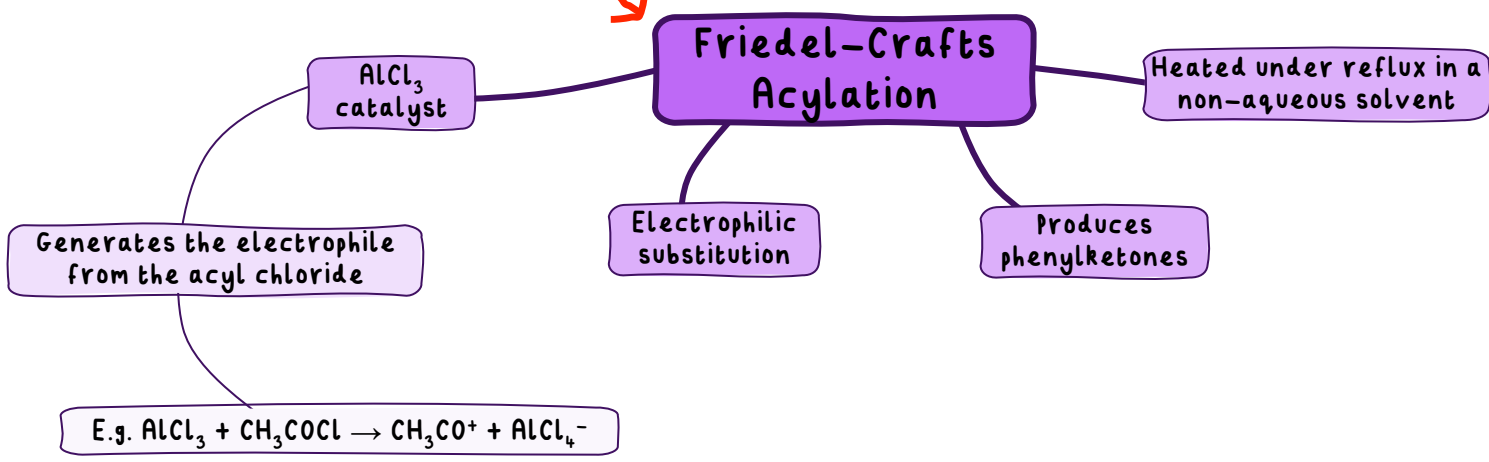
Benzene is more stable than the theoretical molecule cyclohexa-1,3,5-triene

**AQA**





**3.10 AROMATIC CHEMISTRY**



AQA

