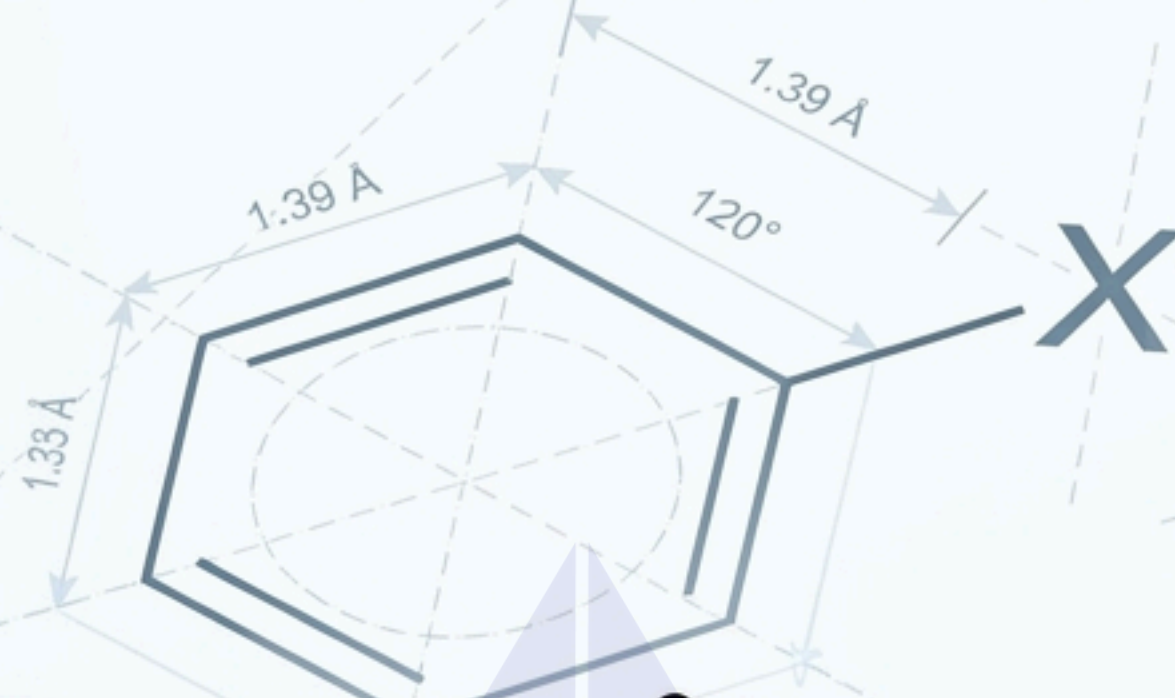




Reaction of Haloarenes with Metals

High-Yield Pattern Recognition for NEET/JEE

**Sodium welds two halide pieces together
— but which two decides the name**





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The Sodium-Coupling Diagnostic Matrix



Wurtz Reaction

Alkyl (R) + Alkyl (R) → Alkane



Alkane

Wurtz-Fittig Reaction

Alkyl (R) + Aryl (Ar) → Alkylarene



Alkylarene

Fittig Reaction

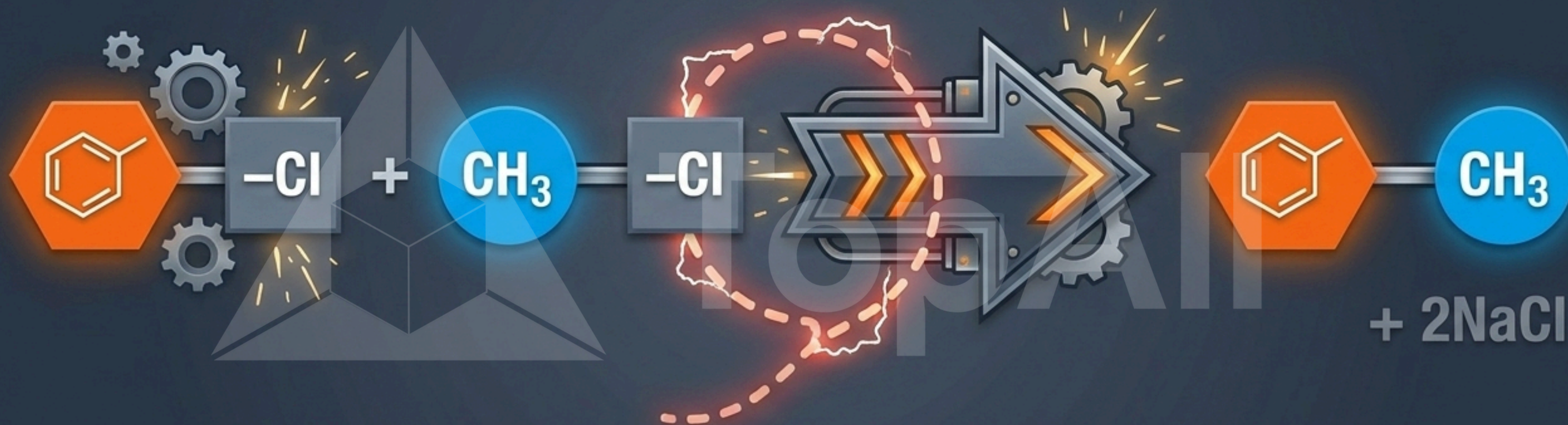
Aryl (Ar) + Aryl (Ar) → Biaryl



Biaryl

Molecular Assembly: Wurtz-Fittig in Action

2Na / Dry Ether



The Inputs

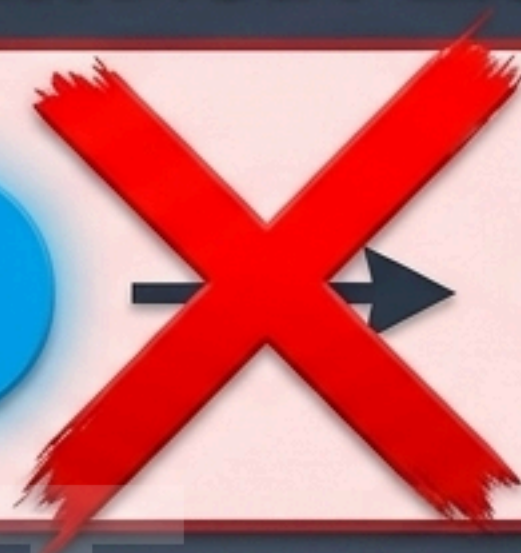
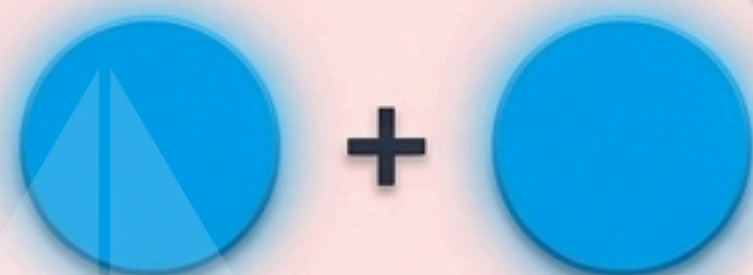
The Catalyst

The Outputs

Match the Reactants to the Name

WARNING: Examiners intentionally scramble these three reactions.
Do not memorize the names without the visual shapes.

The Trap



Fittig Reaction

The Truth



+



Wurtz



+



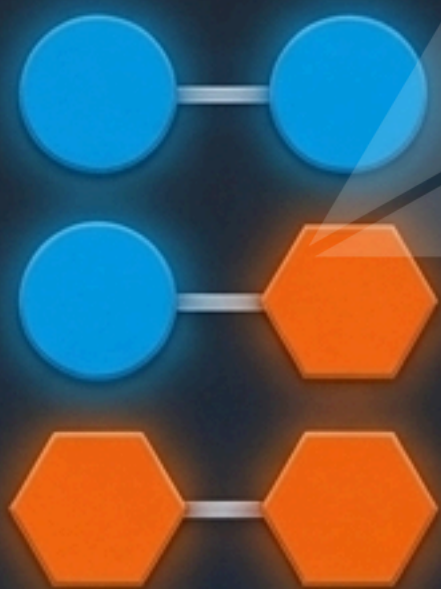
Fittig

Mnemonic: Fittig = Flat Rings

Key Takeaways



The Mechanism is Constant: 2Na in dry ether universally acts as a halogen-stripper, welding the remaining carbon radicals together.



The Reactants Dictate the Name: Wurtz (Alkyl/Alkyl), Wurtz-Fittig (Alkyl/Aryl), and Fittig (Aryl/Aryl) are just three nomenclature variations of the exact same chemical operation.



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