Year 12 Chemistry - Worksheet 3 Designing Syntheses: Flowchart Conventions

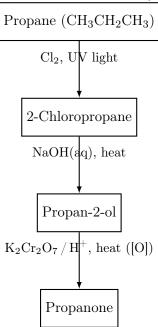
Student Name: _	ID:	
_	Module 7 - Lesson 3	

Part 1: Flowchart Conventions (Node: CHM M7 SYNTH N1)

Flowcharts are used to communicate multi-step synthesis pathways clearly and conventionally. Key conventions include:

- Compounds: Represented inside boxes. Use either the correct IUPAC name or the structural formula. Be consistent.
- **Reactions:** Represented by arrows pointing from reactant(s) to product(s).
- Reagents & Conditions: Written clearly above or below the reaction arrow corresponding to that specific step. Include necessary catalysts, solvents, heat (Δ) , UV light, etc.
- Sequence: Steps are arranged logically, usually top-to-bottom or left-to-right, showing the progression from starting material to final product via intermediates.

Example Flowchart (Propane \rightarrow Propanone):



Part 2: Planning Space for Synthesis Challenge

Instructions: Use the space below (or separate paper) to plan and draft the flowchart for the synthesis problem assigned to your group (see Activity Sheet 3). Use the Chord Diagram tool for initial planning. Remember to include all intermediates, reagents, and conditions.

Planning Notes (Routes explored, key steps):	
Draft Flowchart:	
Justification Notes (Why was this route/these steps chosen?):	