

## **CARRYING OUT A CHEMICAL REACTION**

**(1) WRITE OUT THE BALANCED EQUATION, USING STRUCTURAL FORMULAS.**

**(2) CALCULATE CORRECT MOLAR RATIOS OF REACTANTS. CONVERT MOLES TO GRAMS, MILLILITERS.**

**(3) MIX CORRECT AMOUNT OF REACTANTS, SOLVENT(S), CATALYSTS TO GIVE SPECIFIC CONCENTRATIONS, POSSIBLY HEAT OR COOL OR IRRADIATE WITH U.V. LIGHT, ALLOW TO REACT FOR NECESSARY AMOUNT OF TIME, POSSIBLY FOLLOW THE REACTION PROGRESS USING CHROMATOGRAPHY (e.g., TLC, GC) OR SPECTROSCOPY (IR, NMR, ETC)**

**(4) WHEN REACTION IS COMPLETE**

**➔ RESULT IS USUALLY A MESS!**