Name	Partner Name	l emplate - copy	for lab notebook prep
TA Name	Section Letter _	Day	Time
Experiment 1 – Re Use as reference for notebook preparation –	crystallization of Acetar - every student submits or		dually after lab

- 1. **Dress for lab** see safety rules arrive a few minutes early
- 2. Lab Notebook: copy templates below into designated notebook
 - Purpose, scheme, and reagent table
 - Procedure Diagrams must be complete before you can start the lab

A. Purpose and recrystallization scheme, see lab PDF

B. Reagent Table

Chemical Name	Amount Fill in during lab	Molecular Mass	mmoles Fill in during lab	Boiling or melting point	Density	Hazards
Acetanilide						
Water						

C. Procedure – hand-written instructions & diagrams based on lab PDF, Slugs@home, and class notes

- Include all labeled equipment, chemical names with amounts, and clean-up / safety notes
- Indicate every **transfer** of chemicals from one container to another
- Use as many pages as needed at least 3 pages is typical

Part 1. Dissolve Ac in hot solvent and add charcoal

- Weigh Ac, flask contents, heat, flask after charcoal addition

Part 2. Hot Filtration Apparatus

- Flask & filter contents before, during, and after filtration

Part 3. Cooling and Cold Filtration

- Flask & filter contents before, during, and after filtration

Part 4. Melting Point Analysis

- Sample identities & preparation, observations through viewing window

D is for Data

Record additi	ional notes and	l observations v	within the p	procedure diagrams	, including all	potential s	sources of	f Ac
loss as vou c	arry out the pro	cedure (ex. so	lid left behi	ind in flask during h	ot filtration).			

Mass of crude Ac g
Initial volume of watermL
Additional Water Added mL
Approx. total volume of water = (initial) + (additional) = mL
Re-calculate theoretical mass recovery and th. % recovery using your crude mass and total volume of water (same process as the pre-lab).
Theoretical Mass Recovery g Theoretical Percent Recovery%
Mass of filter paper: g
Mass of filter paper + recrystallized, air-dried acetanilide: g
Actual mass recovery of recrystallized Acetanilide: g
MelTemp Analysis
Melting Range, record with one decimal place
Sweat (beginning) °C Melt (end) °C