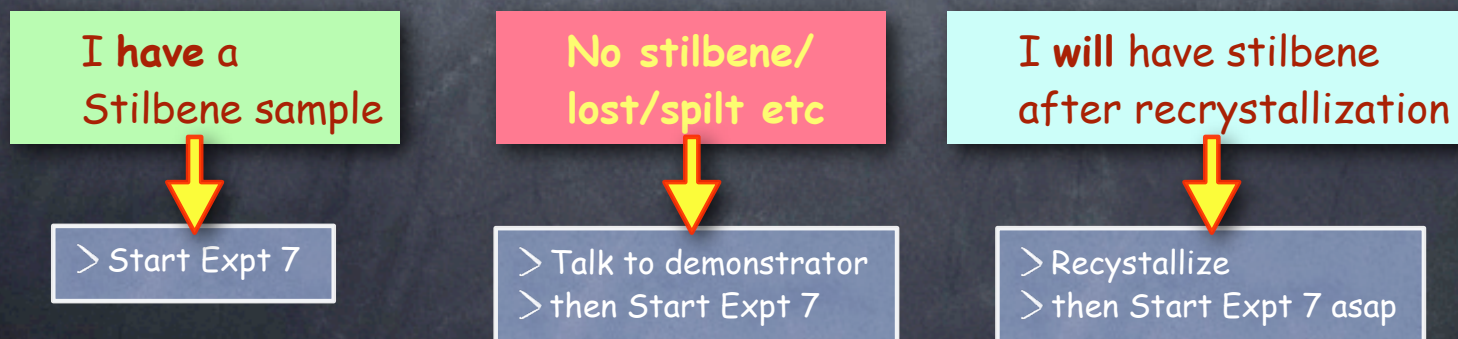


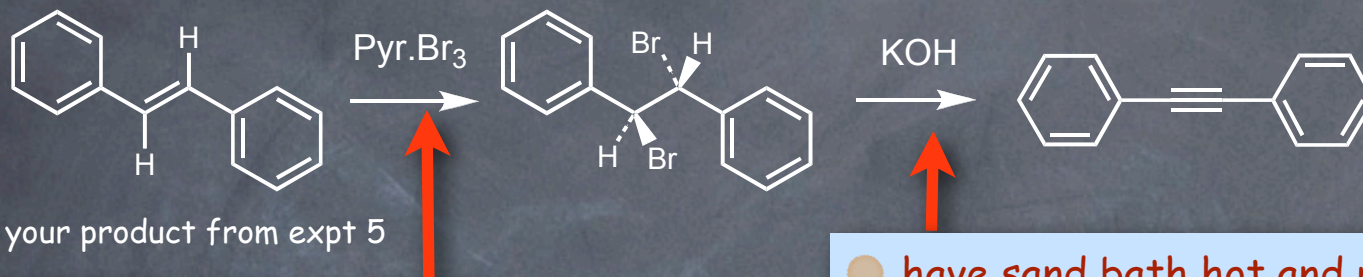
PreLab 3 Experiments 7 - 9

Aims for the week: time planning

- Complete the synthetic sequence to hexaphenylbenzene
- Carry out synthesis of fluorinated heterocycle in expt 9
- ALL GROUPS A-F **aim** to complete the sequence FIRST then do expt 9 (this is a change from the lab manual timeplan)
- We will evaluate where you are early afternoon
- Expt 9 is short, so choice of expt 8 or 9 start depends on exactly when you have completed 7 and have product from 6 ready
- Staff and demons will help you plan your selection during the afternoon
- Where IRs, UVs requested, do not queue if there are a lot of users - plan your time and collect these later



PreLab 3 Experiment 7



- heating on a steam bath for a few mins

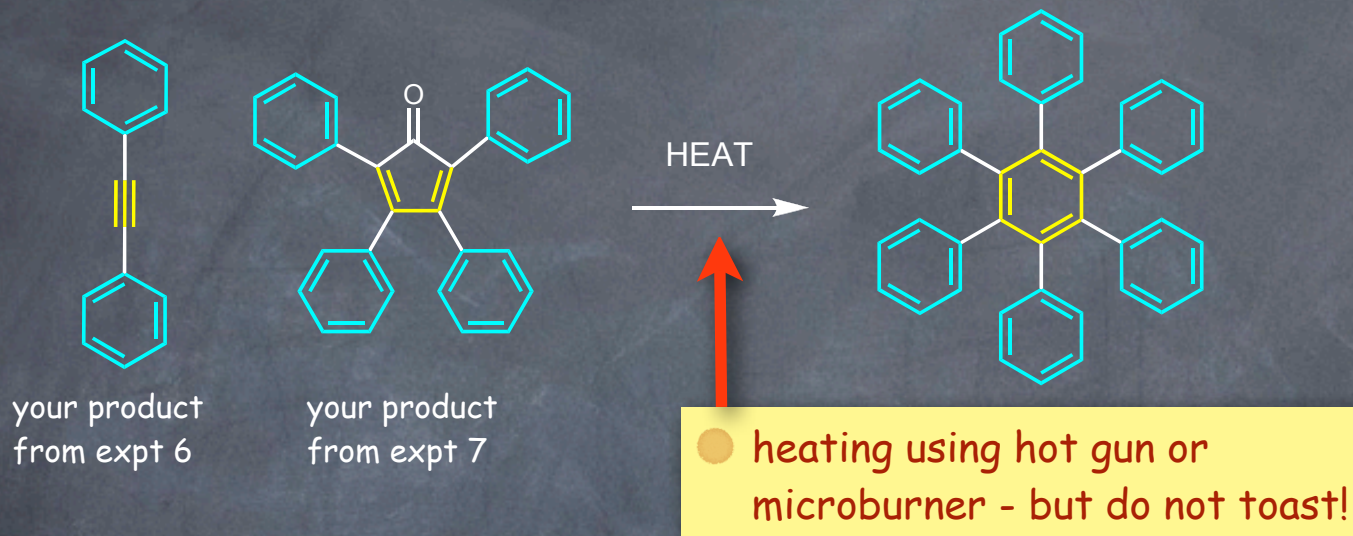
- have sand bath hot and ready first
- take care with KOH pellets and solution

- Only need steam bath for a few mins - share use of 2-3 per group
- Use time to get sand baths for stage 2!

Think during lab:

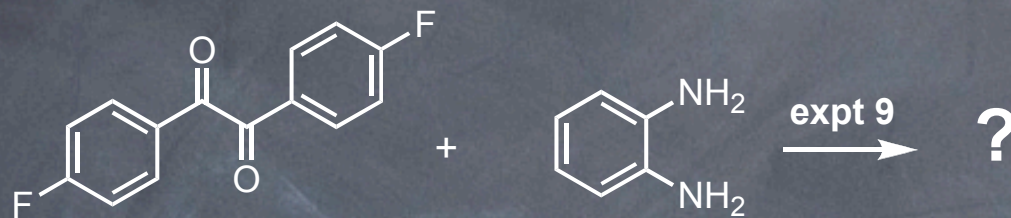
- > What are you using Pyr.Br₃?
- > What would you normally expect to use?

PreLab 3 Experiment 8



- If you are short of either material discuss with staff/demonstrator
- As long as you have a 0.3g+ of each you should be able to use your own material as per the experimental script

PreLab 3 Experiment 9

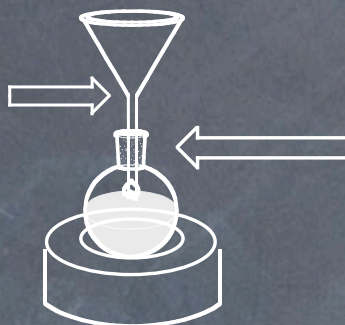


- The only experiment we ask you to work out what is formed!
- Discuss with your demonstrator when to start this
- It is a short sequence
- All NMR data for analysis available from front desk

More apparatus reminders

Filtration into an r.b.

Ideally support here
with a clamped O-ring



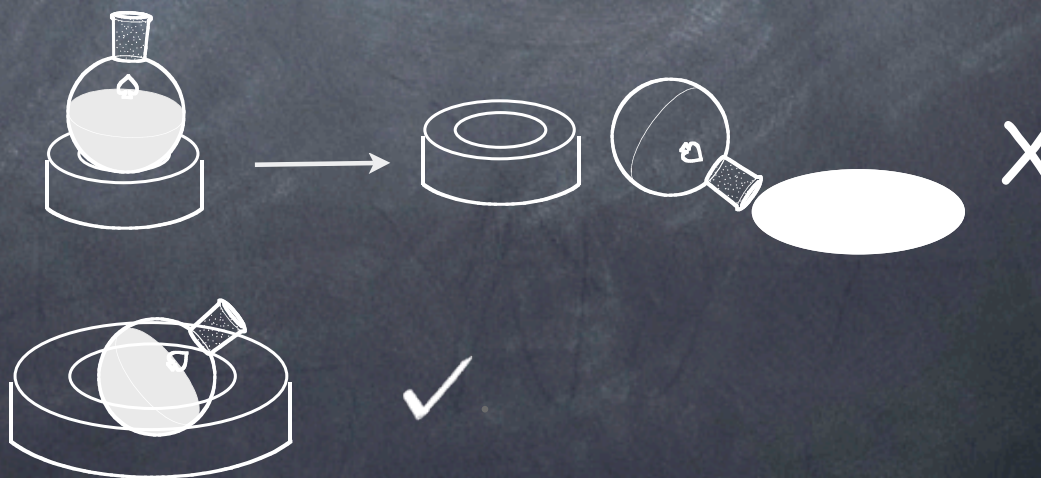
Support here with a clamp
clamped to a clampstand!

Why? It may roll off the cork
ring and spill everywhere..

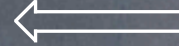
Not wise to support using a 'balancing' strategy!
"Entropy always wins!"

**Storing solutions in rbs
on cork rings:**

Best to do so in a larger
size cork ring in which it
rests on the inner edge
rather than perches atop



thermometers



check it goes
high enough!

Why? It may explode if you use a
100 ° thermometer in a 190 ° bath!



Place IN sand sand carefully!
Do not use as spear!

Why?

1. It might rip the bottom of the
high grade aluminium pie tin and
then sand will pour out when you
lift it off later
2. You may break the thermometer
bulb