

BY GLENDA ARENDSE FOR LABCON 2025



PURPOSE

- SHARE ideas
- Improve EFFICIENCY
- Reduce stress
- INCREASE HAPPINESS





EVERYDAY ISSUES FOR LAB TECHS

What we have:

- Old things
- Cheap stuff
- Outdated equipment
- Limited experience
- Lots of demands
- Waste accumulation

What we need:

- New things
- Expensive stuff
- Modern devices
- Savoir faire
- Time & resources
- Help!!!



SURELY, THERE MUST BE A BETTER WAY!?!?

- Making solutions
- Storing things
- Finding things
- Setting up pracs
- Minimising waste
- Getting rid of waste
- Reducing stress
- Increasing happiness





NOW THAT'S A THOUGHT!

Why didn't I think of that?

MUST HAVES FOR QUICK PREPS





HANDY STOCK SOLUTIONS



- MAKE 2M STOCK SOLUTIONS
- o CALCULATE THE DILUTION FACTOR
- MAKE DILUTIONS WITH STOPPERED CYLINDERS
- BE CONSISTENT WITH MENISCUS READS
- o STOPPER, INVERT, SHAKE & SWIRL



FLAMING ACID

- THE STANDARD PROCEDURE



- FLAMING IS A TECHNIQUE USED TO SAFELY ADD ACID TO WATER
- o CAREFULLY POUR DOWN THE STIRRING ROD
- OR, CAREFULLY POUR DOWN THE SIDES OF THE BEAKER
- WORK IN A FUMEHOOD





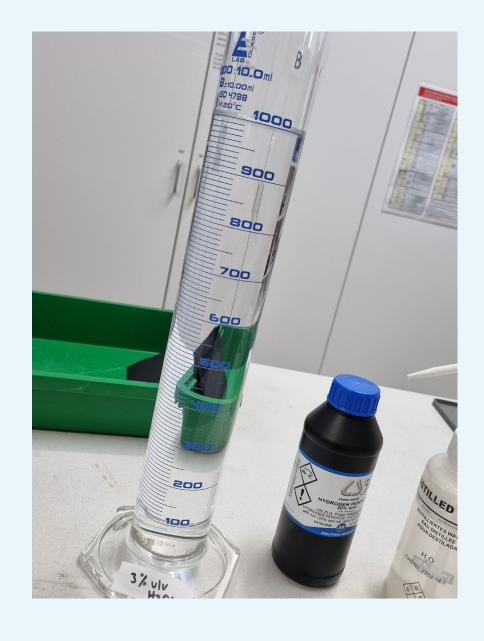
FLAMING WITH ACCURACY







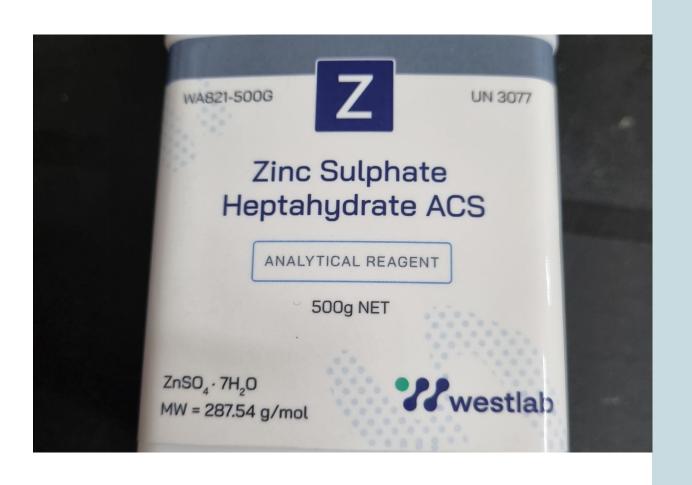
WORKING QUICKLY V/V W/V W/W?





ECONOMIZING WITH REAGENT GUZZLERS









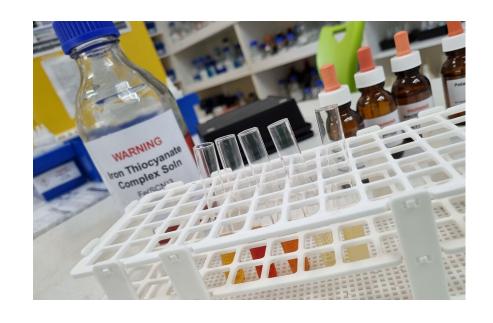
STRETCHING SOLUTIONS CONTROL THE USAGE

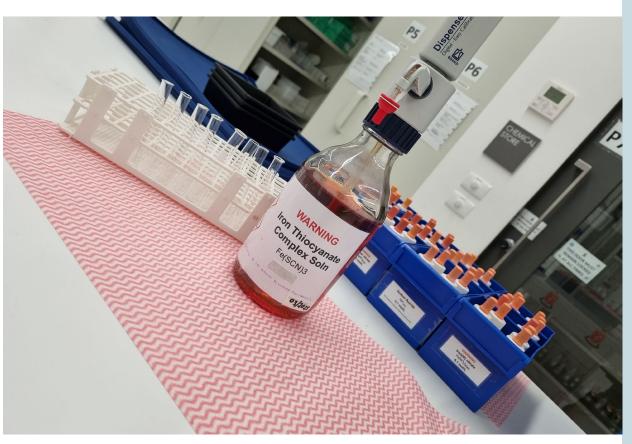




SCALE DOWN

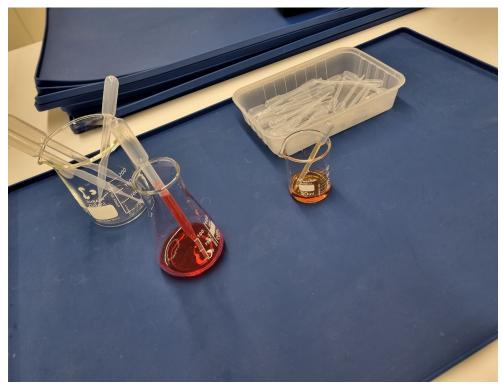
REDUCE EVERYTHING!





RATIOS - COMPLEMENT SCALING DOWN!!!







EPPENDORF-EN FABULOUS!!!

WHEN ACCURACY IS CRUCIAL





SCALING DOWN - CREATES SPACE,...THE FINAL FRONTIER!





RE-ITERATING SCALE-DOWN PERKS

- Reduce waste
- Reduce hazards
- o Reduce glassware
- o Reduce washing-up
- Reduce stress
- o Increase happiness





WORKING SMARTER - INCREASING EFFICIENCY

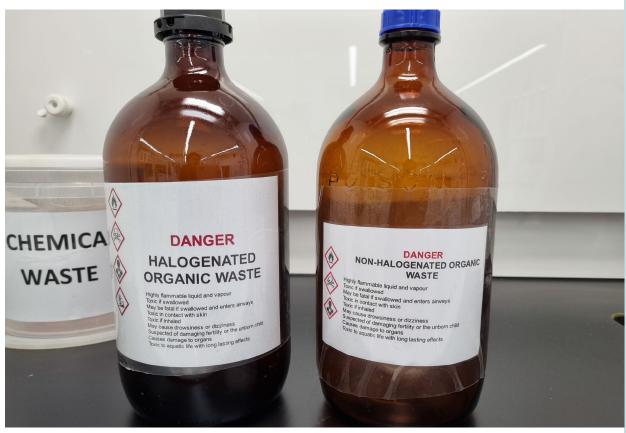






ORGANIC SOLVENT ISSUES





DON'T PANIC,.... IT'S ORGANIC!!! - RELAX WITH A STEAM-BATH!











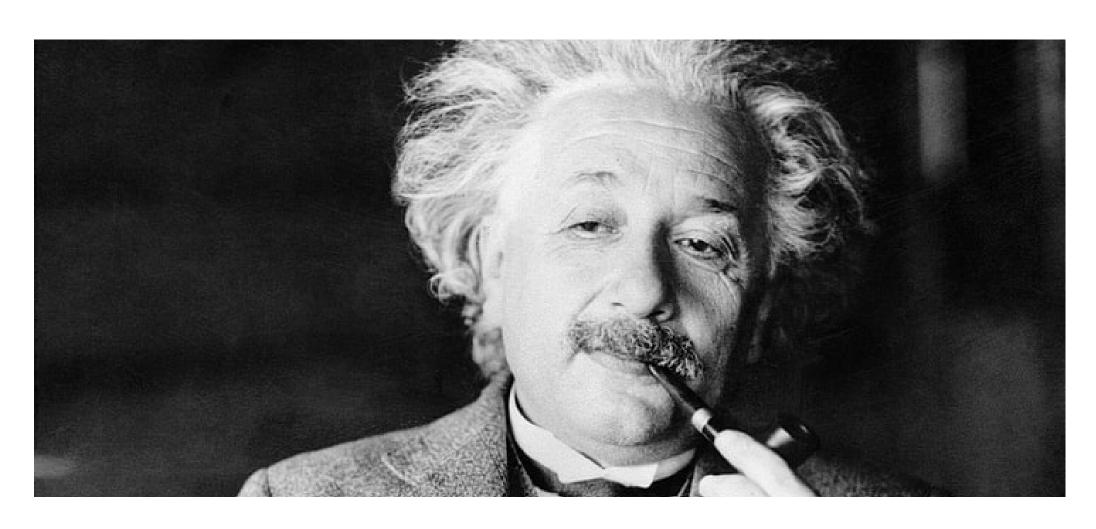
COMPLEX MADE SIMPLEX

SUMMARY- LOGIC & IMAGINATION WORK WELL TOGETHER

- Strategize
- Scale down
- Substitute
- o Re-think
- Re-purpose

- o DON'T PANIC!
- o BE PROACTIVE
- BE RESOURCEFUL
- o BE FLEXIBLE
- o BE HAPPY

LOGIC WILL GET YOU FROM A - Z BUT IMAGINATION WILL GET YOU EVERYWHERE





THANK YOU