

HELLO MELVIN

WHAT HAPPENS IF YOU PUT
STYROFOAM CUPS IN ACETONE?



APPARATUS

YOU WILL NEED:

1. STYROFOAM CUPS
2. ACETONE
3. A CONTAINER
4. GLOVES (JUST TO BE SAFE)



WHAT WE ARE DOING TODAY:

- 1. FIRST, POUR THE ACETONE INTO THE CONTAINER.**
- 2. THEN, PLACE THE STYROFOAM CUPS IN THE MIDDLE OF THE CONTAINER.**



PREDICTION

WHAT IS A PREDICTION?



**WHAT DO YOU
PREDICT WILL
HAPPEN?**

I PREDICT THAT...

PHOTOS OF THE EXPERIMENT

LINK OF VIDEO:

[HTTPS://WWW.YOUTUBE.COM/WATCH?V=6LV3JDR5AZW](https://www.youtube.com/watch?v=6LV3JDR5AZW)

(FROM 0:30 SECONDS)



RESULTS

WHEN WE PUT THE STYROFOAM CUPS IN THE ACETONE...

THE CUPS DISAPPEARED.

**THE STYROFOAM DOESN'T ACTUALLY DISAPPEAR,
EVEN IF IT LOOKS LIKE THAT.**



CONCLUSION

ACETONE IS A VOLATILE LIQUID.
THIS MEANS IT IS LIKELY TO CHANGE UNPREDICTABLY FOR THE WORSE.
IT IS USED AS AN ORGANIC SOLVENT.
THESE ARE WIDELY USED EVERYDAY IN CLEANING PRODUCTS
E.G. TO REMOVE A STAIN OR IN DISINFECTANT.

THE ACETONE EASILY BREAKS DOWN THE STYROFOAM CUP,
RELEASING THE LITTLE POCKETS OF AIR TRAPPED INSIDE
AND LEAVING VERY LITTLE LEFT BEHIND.
THE STYROFOAM CUP HAS DISSOLVED.

THIS IS SIMILAR TO HOW SUGAR DISSOLVES IN WATER.

THE MOLECULES ARE PRESENT IN THE ACETONE SOLVENT,
THEY HAVE JUST BEEN DISCONNECTED.

A serene sunset over a beach. The sun is a bright yellow circle in the dark sky, casting a shimmering path of light across the turquoise water. The waves gently lap onto a sandy beach. The text 'KEEP CALM AND STAY MELVIN!' is overlaid in a white, stylized, serif font with a slight shadow effect.

**KEEP CALM AND
STAY
MELVIN!**

SCHOOL WEBSITE

**NOW IT'S TIME TO LOOK AT
THE SCHOOL WEBSITE
AND SOME OF THE
GAMES AND EXPERIMENTS THAT YOU TRY.**

**I WILL ALSO SHOW YOU HOW TO WATCH
THE DUCK CAM.**

<https://www.gardensuburbjunior.co.uk/page/?title=Science&pid=330>