

# To Rust or To Not To Rust

M3-8 CHEMISTRY

# Question

Which liquid rusts nails faster? Orange juice, Apple juice, coffee, coke, water or vinegar.



# Abstract

# Hypothesis

In this experiment I think that the nails sitting in the water will rust the fastest because I know from personal experiences that water can rust metal pretty fast.

# Materials

- ❖ 6 mason jars with lids.
- ❖ Coke
- ❖ Apple juice
- ❖ Orange juice
- ❖ Water
- ❖ Vinegar
- ❖ Coffee
- ❖ Nails



# Procedure

- 1) Get 7 mason jars
- 2) 140 nails
- 3) Put the same amount of liquid into each jar
- 4) Put 20 nails into each jar
- 5) Record observations every 2 days
- 6) Repeat step 5 for 10 days
- 7) Take pics
- 8) When 10 days are over drain liquid and see what the nails look like

# Experimental Pictures





# Conclusion

- In conclusion my hypothesis was correct !! The nails in the water rusted the fastest. I just didn't learn which liquid rusts a nail the fastest but what other liquids do to nails or what nails do to liquids. But I also thought that the vinegar would be the next after water but I was wrong about that.

# Works Cited

- Suzy's Rust: <https://www.google.com/>
- 8 facts about rust <https://www.google.com/>