# To Rust or To Not To Rust

M3-8 CHEMISTRY



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

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#### 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

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#### 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**

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### Results

	Day 1-2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Coffee	No rust	No rust	Colored nails	Colored nails					
Vinegar	No rust	Colored liquid	Colored liquid	Colored liquid					
Coke	No rust	Little rust	Little rust	Little rust	Little rust				
Water	Rust	Rust	Rust	Rust	Rust	Rust	Rust	Rust	Rust
Orange juice	No rust	No rust	No rust	No rust					
Apple juice	No rust	No rust	No rust	No rust					

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 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 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**

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• Suzy's Rust: <u>https://www.google.com/</u>

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• 8 facts about rust <a href="https://www.google.com/">https://www.google.com/</a>