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February
8th grade Science
Science Fair Logbook

Logbook

Title:

- The Vanishing of the Stain

Objective:

- In this experiment I will be testing what type of stain remover will best remove stains on clothes

Statement of the Problem:

The problem in this experiment is that stains are kind of hard to clean if you don't get the right cleaning solution for it. I want to do this because I myself am a clumsy person, and my mom has trouble getting stains out so I wanted to help her clean it. This is important because many people are messy and can get their clothes dirty, so this experiment will help with exactly that, and what cleans it best.

Dependent and Independent Variable:

- Independent- stain remover
- Dependent- how much stain is removed
- Control- Same person, cloth, stain

Hypothesis:

- My hypothesis is that Tide stain remover will remove the stain best because I saw that Tide was best at removing stains

Materials:

- 12 White pieces of cloth
- Ketchup
- Pomegranate
- Grease
- Tide
- Oxi Clean
- Great Value
- Dawn Dishsoap
- Chromebook
- Logbook

Procedures:

1. Make sure you have space on a counter or table that is clean
2. Then set out the 12 pieces of white cloth evenly out in 3 and 4 going down.
3. Have Ketchup off to the side
4. Same with some Pomegranate or other fruit
5. Lastly have something greasy near by
6. Then for cleaning supplies, have Tide, Oxi clean, Up&Up.
7. For four pieces of the cloth put ketchup
8. For another four, put the pomegranate or any other fruit you got, on to the four pieces
9. Lastly, for the last four, put the grease on them.
10. Then let them soak for at least a minute
11. Then start scrubbing with Tide and see how much came off
12. Then do this with the Oxi Clean, Up&Up, and Dawn Dish soap on the cloth with Ketchup
13. Then repeat with the pomegranate/fruit, and grease.

Results: My results showed a correct answer and the answer I was looking for. My hypothesis that Tide would be the best to clean was supported. I used a scale from 1-10 ten being the best, one being the worst, to rate the cleanliness of each cloth. For Up&Up, on the ketchup I put 7 because it did good but you can still see it, on pomegranate juice it did a 4 which was pretty bad but still kind of okay. Tide did amazing, it got a 10 on ketchup, 9 on pomegranate juice, it cleaned a lot of it, but not it all, and a 10 on grease. Oxi Clean also did a good job, but you can still see some pomegranate stains but not a lot, the grease was gone. Dawn dish soap cleaned the ketchup okay, not all though, it did poorly on the pomegranate and only turned it blue, but did clean the grease.

Conclusion:

1. My hypothesis was supported because Tide was the cleanest.
2. I accomplished my objective of seeing what was the best cleaner. It was successful because I completed it in the way I wanted it to.
3. The results proved that Tide was the winner and Dawn dish soap did the worst.
4. I learned that there are good cleaners but the ones I used, Tide is the best, or you can wear a napkin over you.
5. What I would do differently is harder stains and different varieties of cleaners.
    - A way I could take it to the next level is trying different types of stains, harder stains to get out. Why I should do that is because there are a bunch of harder stains that could be harder to get out.
    - I can scrub it for a better certain amount of time
    - I could have more trials to see if there is an even better cleaner, or a harder stain to scrub out.

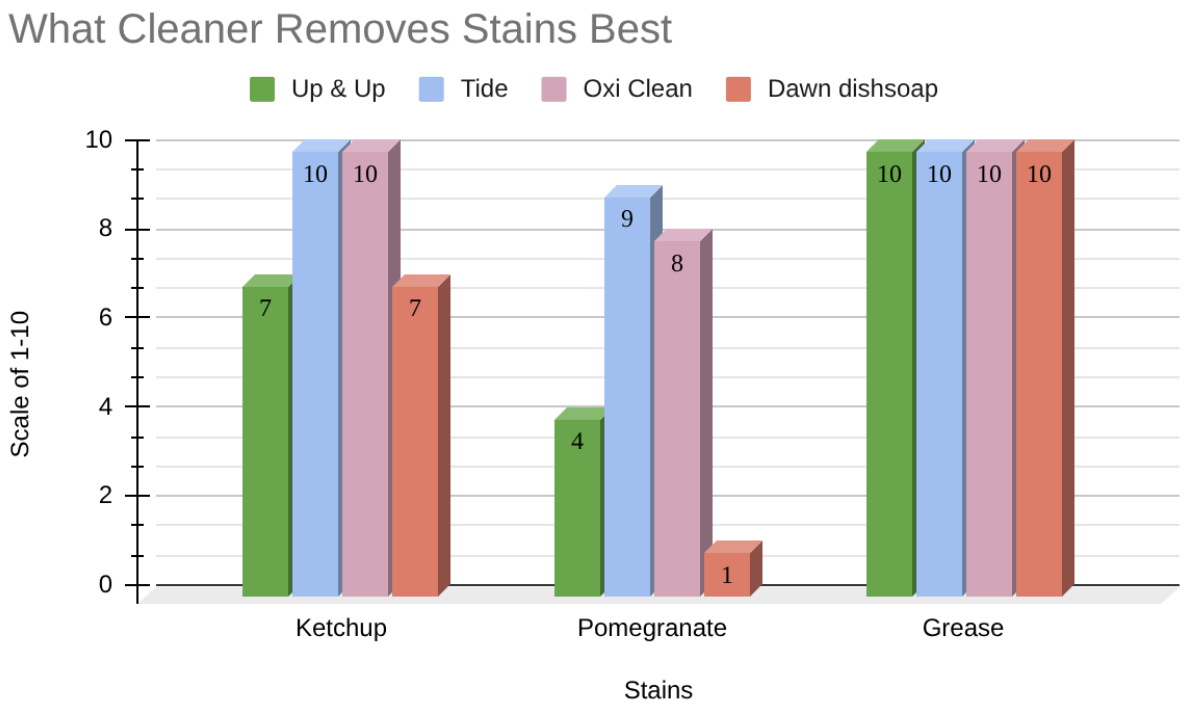
Pictures:
NEW!
ALL-IN-ONE STAIN SOLUTION
Tide
+ ULTRA OXI
ALL-FABRIC Stain Remover

SPRAY
WIPE
RINSE
DAWN
PLATINUM
POWERWASH

ATTACKS
STAINS!
OXI CLEAN
21.5oz

Triple Action
Laundry Stain Remover

HEINZ
TOMATO KETCHUP
20 OZ



	Up & Up	Tide	Oxi Clean	Dawn dish soap
Ketchup	7	10	10	7
Pomegranate	4	9	8	1
Grease	10	10	10	10

References:

Gunning Bedford Middle School. (2021). Stain Removal Chemistry. *youtube.com*. https://www.youtube.com/watch?v=g_BgqDJJ4e8

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