



# Can you reuse disposable masks and if so how?

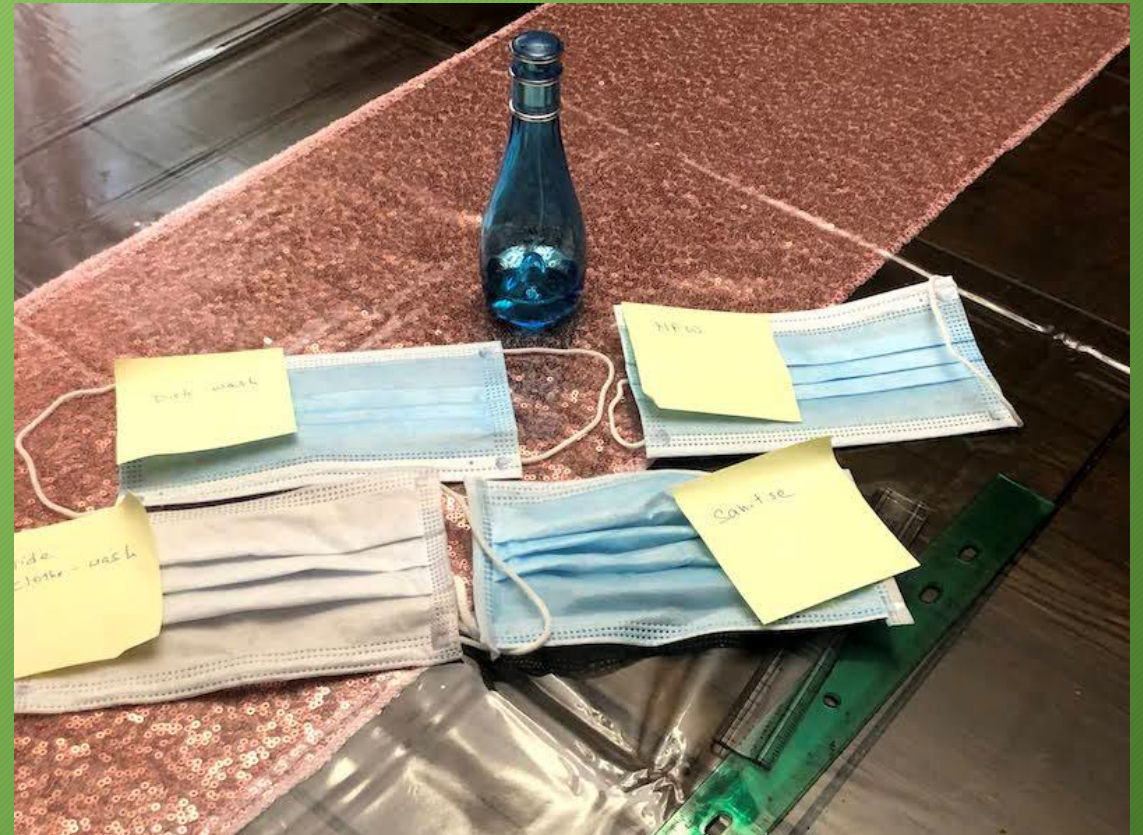
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# Project Description

Guiding Question : Can you reuse disposable masks and if so how?

## Prediction

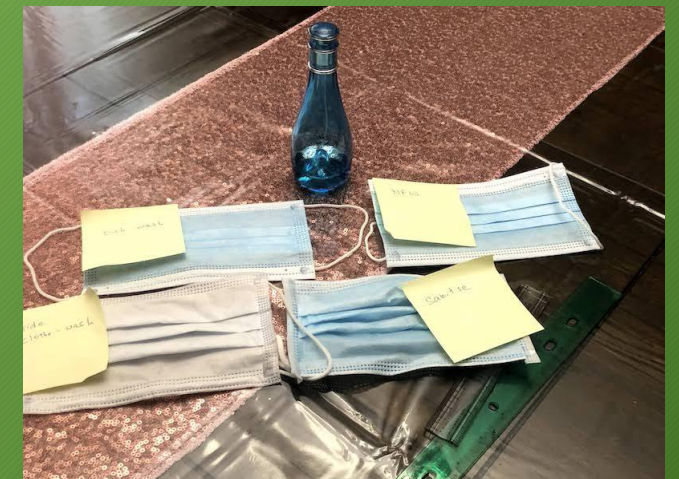
- I think you can re-use a disposable mask by washing it with tide.
- Repeated re-use should deteriorate the power of mask and I think we can increase the protection power of mask by putting a face tissue underneath it.





# Materials

- 4 Disposable masks
- Tide Washing soap
- Dish Washing Soap
- Sanitizer
- Scale to measure distance
- Face tissues
- Perfume



# Procedure

## Repeat following Steps for 3 re-uses

- Sanitizer : Sanitized and let it dry for a day.
- Tide : Washed it with tide and made sure its rinsed thoroughly and let it dry for a day.
- Dish Wash: Washed it with dish washing liquid and rinsed thoroughly and let it dry for a day.



**Changed Variable : What I wash the disposable masks with**

**Measured Variable : Distance to smell perfume from Disposable Mask**

**Reuse and measure every day for 5 days**



# Data

- Distance to smell (in centimeters) perfume after wearing mask.
- Increasing distance further, you can't smell the perfume

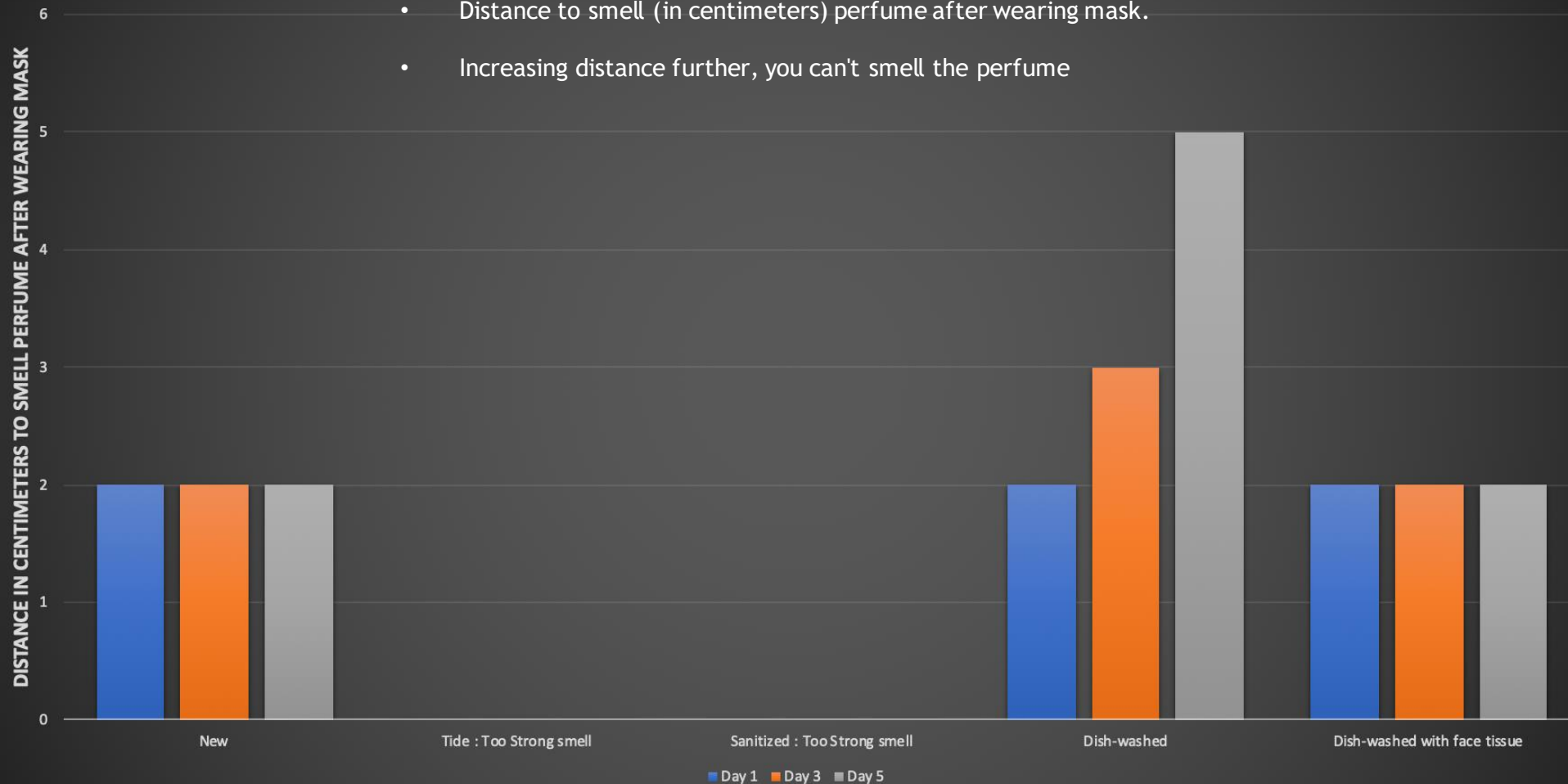
	A	B	C	D	E	F
1	Days	New	Tide : Too Strong smell	Sanitized : Too Strong smell	Dish-washed	Dish-washed with face tissue
2	1	2	0	0	2	2
3	3	2	0	0	3	2
4	5	2	0	0	5	2



# Distance to smell perfume from masks

Data for 5 days experiment

- Distance to smell (in centimeters) perfume after wearing mask.
- Increasing distance further, you can't smell the perfume



# Research : Difference between Laundry Detergent and Dish washing liquid

- Hand Dish-washing detergent is infused with tons of foaming agents and very mild not anywhere near as harsh as laundry detergent.
- Dish wash soap touches your food while laundry touches your skin.

# Conclusion



Sanitizer leaves very strong smell, no one can wear it even after 2 days of drying.



Tide has a strong smell of tide and you feel suffocated.



We could re-use the disposable masks by washing it with dish soap and adding a face tissue behind it for extra power after repeated re-use.



Since dish washing liquid is closer to your food, it is more safer to wear the masks washed with it.



# Thanks You

<https://www.quora.com/How-is-laundry-detergent-different-from-dish-washing-detergent>

<https://news.wisc.edu/curiosities-whats-the-difference-between-dishwasher-detergent-laundry-detergent-and-dish-soap-why-arent-they-interchangeable/>

