



Store-Bought vs. Natural: Which Moisturizer
Works better

By: Kailee And Charlotte

What moisturizers work better natural or
store bought

Other Wonders I Have About this Experiment

Charlotte:

I wonder if they will all
way the same because they
all have similar
ingredients.

Kailee:

I wonder if the store bought
moisturizer will work better
than just one natural products
by itself.

* don't print ts out
we will memorize it
or write it on a sticky
note

Background Knowledge and Research

Moisturizers are really important for taking care of your skin. Using them every day is extra important for people who have eczema, like atopic dermatitis, because it helps keep their skin from getting too dry. Including the fact that your skin is the largest organ in your body so keeping it protected. Which is why testing these products is good to not just help with dry skin but to help and see which product works better for your skin.

Hypothesis

We believe natural products will work better because they contain no artificial ingredients and are likely healthier than store-bought alternatives.

Materials

- ★ Gelatin
- ★ Bubble moisturizer
- ★ St ives moisturizer
- ★ Cerave moisturizer
- ★ Aloe gel
- ★ Vitamin E oil
- ★ Coconut oil

Procedure

- ★ Make gelatin
- ★ Put gelatin in refrigerator
- ★ Weigh the gelatin cubes
- ★ Apply moisturizers to jello cubes
- ★ Wait 12, 24, 48 minutes
- ★ Weigh the cubes and see what they weigh

Controlled Variables

- ★ The weight is 15g
- ★ The size is 3.5cm
- ★ Room temperature is 18.5 degrees
- ★ Used $\frac{1}{8}$ teaspoon of moisturizers

Manipulated Variable

- ★ The moisturizers because we changed them
- ★

Conclusions

The purpose of our experiment was to find out which moisturizer works better, natural or store bought. We tested different products and measured how well they kept skin moisturized for 48 hours.

Our results showed that both types can work well. The best store bought product was CeraVe with SPF, and the best natural product was coconut oil. We think the SPF helped protect the skin and lock in moisture.

We also learned that natural products are not always better for everyone because thick oils like coconut oil can block pores and cause breakouts for some skin types. In the future, we would test more brands and different types of moisturizers or sunscreens.

Overall, this project helped us use science to make smarter choices about skincare.

Applications

In the real world we can use cerave or coconut oil. Now we know that we should check the ingredients of the products we are using to make sure they are right for us.

Observations

We observed that after 24 hours, the gelatin pieces started getting all shriveled up and started drying out after we put on the moisturizer. And after 48 hours they got worse and became very small. For the natural products the aloe vera gel, for the store bought products the st ives shriveled up the most. The least shriveled up for the natural was coconut oil and for the store bought cerave was not as shriveled up



Research and Sources

<https://www.myskindermatology.com/post/all-about-moisturize>

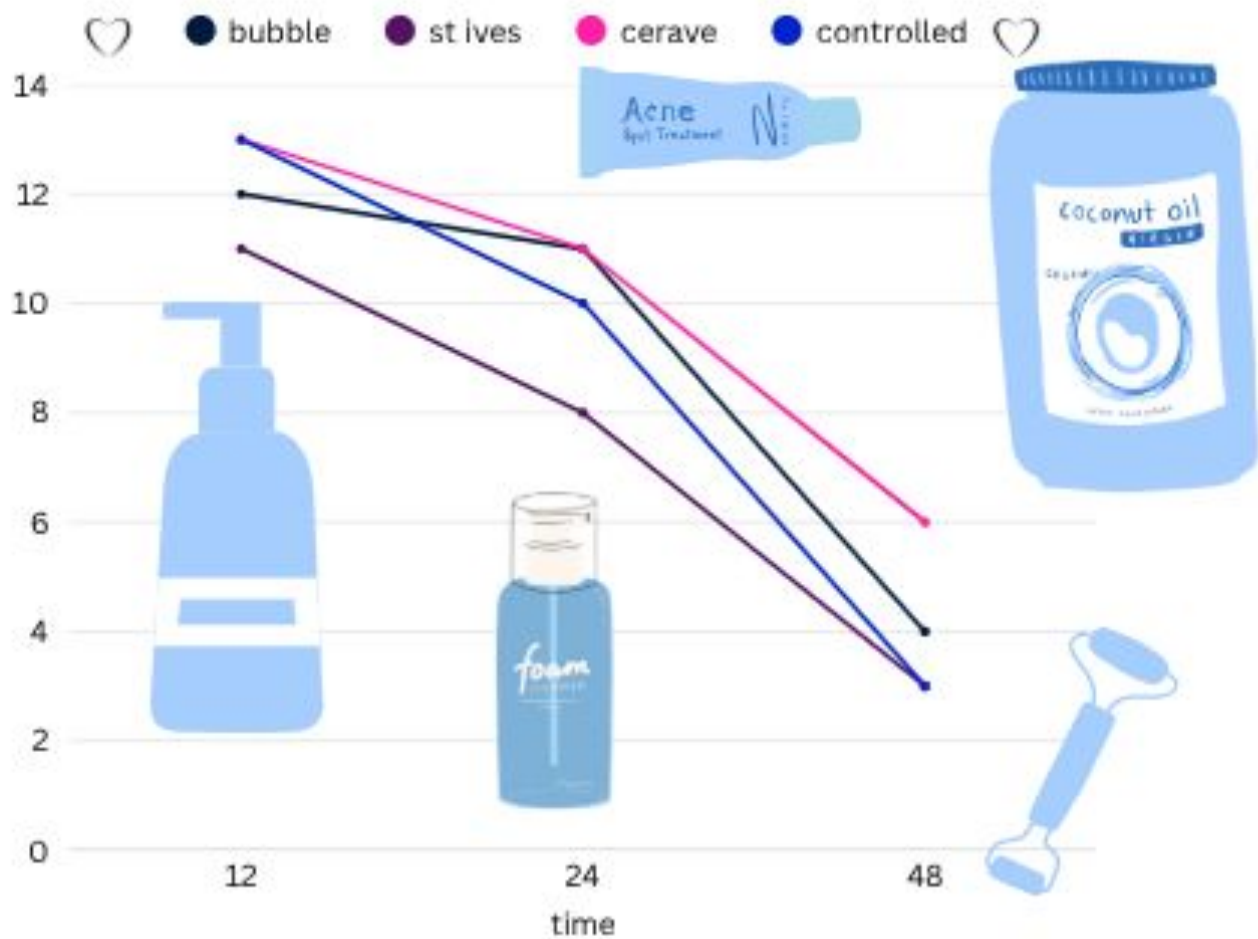
[Bubble Skincare | Slam Dunk Hydrating Moisturizer for Normal & Dry Skin T](#)

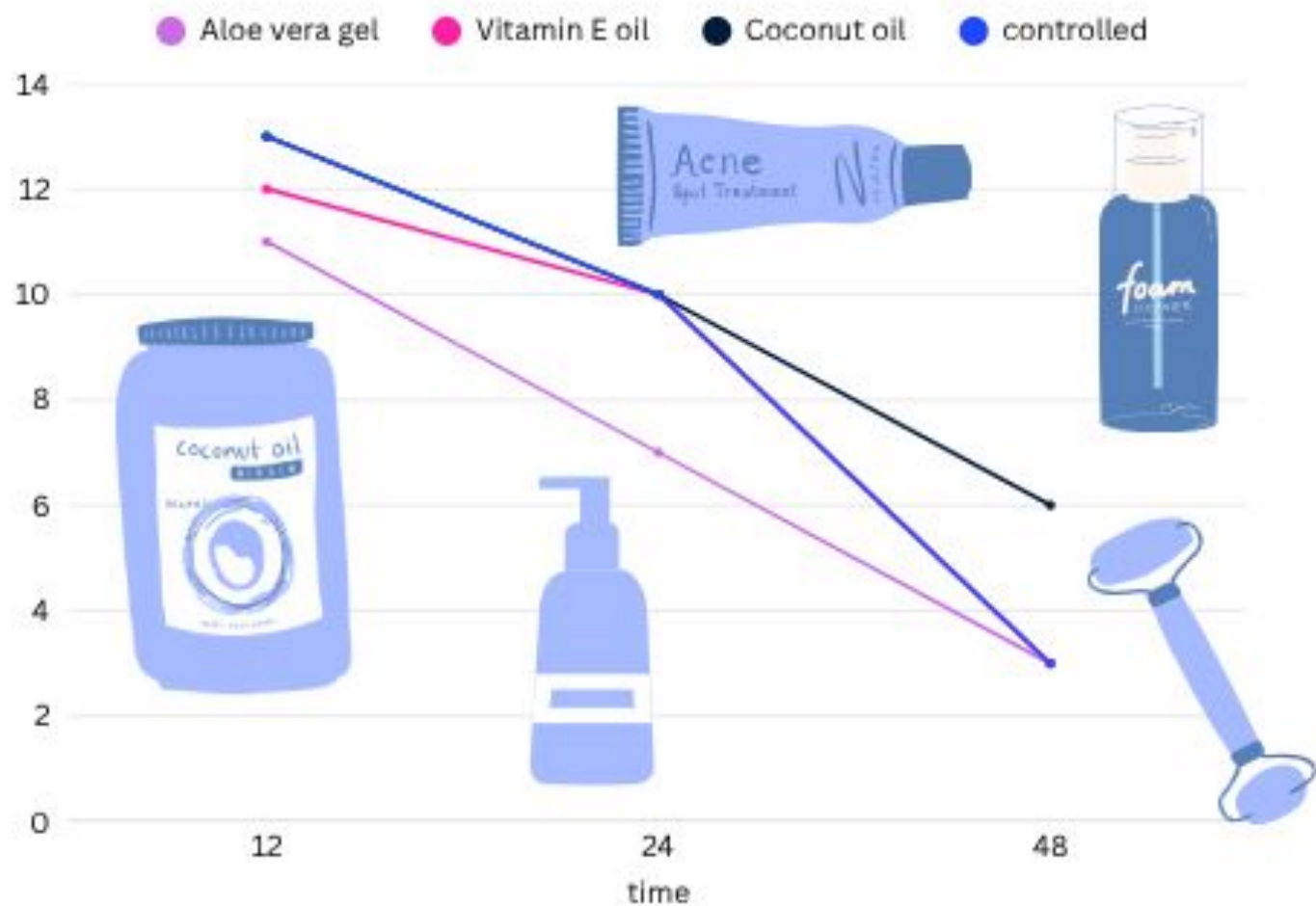
<https://www.medicalnewstoday.com/articles/282857>

<https://www.cerave.com/about-cerave>

A little more to know!

The skin protects the body from germs, injury, and the sun, helps control body temperature, prevents dehydration, supports the immune system, and lets us feel touch, pain, and temperature. Keeping skin healthy helps it stay strong and do its job well. And we believe testing these products will be a good thing. Skin is so important and taking care of it is an amazing thing to add to your daily routine. Taking care of your skin can stop wrinkles.





The weights after 12 hours.

Store bought

Bubble: 12g

St ives: 11g

CeraVe: 13g

Natural

Aloe vera gel: 11g

Vitamin E oil: 12g

Coconut oil: 13g

Controlled: 13g

The weights after 24 hours

Store bought

Bubble: 11g

St ives: 8g

CeraVe: 11g

Controlled:
10g

Natural

Aloe vera gel: 7g

Vitamin E oil: 10g

Coconut oil: 10g

The weights after 48 hours

Store bought

Bubble: 4g

St ives: 3g

CeraVe: 6

Controlled: 3g

Natural

Aloe vera gel: 3 (one of them weighed 0)

Vitamin E oil: 3g

Coconut oil: 6g