



# A Clear Foundation

**Which Make-up Remover  
Removes Foundation the Best**

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# Problem

As young girls, we start to take interest in makeup. We need to make sure we remove all the makeup and dirt to keep our face clean and beautiful. How can we make sure our face is clean at the end of the day?

# Hypothesis

Washing our face at the end of the day with micellar water will remove the most makeup foundation and dirt from the skin and pores.

# Safety & Risks

Some foundation and makeup removers may cause irritation or allergic reactions.

# Variables

**Constant:** Oranges used as skin. How makeup is applied. Amount of time it sits on the “skin”. Amount of time used to remove makeup. Amount of foundation used.

**Independents:** Type of foundation. Types of makeup remover

**Dependent:** Does the skin have a colored tint from foundation? How much makeup is on the cotton swab/wipe? How much makeup is left on the skin?

# Materials

- Foundation
  - Liquid
  - Stick
  - Powder
  - Cream
- Makeup Sponge (for applying)
- Oranges
- Makeup Remover
  - Water
  - Cold Cream
  - Micellar Water
  - Makeup Remover Wipes
- Cotton Swabs (for removing makeup)
- Timer
- Paper and Pencil (for observation notes)

# Procedure

1. Put foundation on orange
2. Let foundation set on “skin” for 8 hours
3. Use makeup remover to clean skin
4. Compare skin after makeup remover by observation and touch
5. Record and analyze data
6. Repeat for each foundation type and makeup remover.
7. Create a chart for each type of foundation.
  - a. Include amount of time, type of makeup remover and observations on how much foundation was left on skin.
8. At the end of the day, compare how clean the skin is and how much makeup was removed on cotton swabs or makeup wipe.
9. Repeat above steps for each type of foundation and makeup remover.

# Disclaimer

The word “skin” most of the time will refer to the outer peel of an orange during this project

# Graphs & Observations

	Surface		Water	Micellar Cleansing Water	Cold Cream	Makeup Remover Wipes
<b>Foundation 1:</b> Pressed Powder Foundation <b>Applied:</b> Makeup sponge <b>Amount:</b> 1 swipe on compact <b>Time:</b> 8 hours on skin	Orange	Does the skin have a colored tint from foundation?	Foundation is a little noticeable on skin surface and in pores.	Foundation is not visible on the skin surface or in the pores.	Foundation is a little noticeable on skin surface in different spots and in pores.	Foundation was very noticeable on skin surface and in pores.
		How much makeup is on the cotton swab? (Scale 1-5)	3	2	2	3
		How much makeup is left on the skin? (Scale 1-5)	4	1	2	4
	Skin	Does the skin have a colored tint from foundation?	Foundation is a little noticeable on skin surface and in pores.	Foundation is not visible on the skin surface or in the pores.	Foundation is not visible on the skin surface or in the pores.	Foundation is only a tiny bit noticeable on skin surface and in the pores.
		How much makeup is on the cotton swab? (Scale 1-5)	4	2	2	4
		How much makeup is left on the skin? (Scale 1-5)	2	1	1	2

	Surface		Water	Micellar Cleansing Water	Cold Cream	Makeup Remover Wipes
<b>Foundation 2:</b> Liquid Foundation <b>Applied:</b> Makeup sponge <b>Amount:</b> 1 swipe on compact <b>Time:</b> 8 hours on skin	Orange	Does the skin have a colored tint from foundation?	Foundation is very noticeable on skin surface and in pores.	Foundation was not visible on the skin surface but a little noticeable in the pores.	Foundation was not visible on the skin surface but a little noticeable in the pores.	Foundation was not noticeable on skin surface but a lot was left in the pores.
		How much makeup is on the cotton swab? (Scale 1-5)	5	1	1	4
		How much makeup is left on the skin? (Scale 1-5)	1	4	4	3
	Skin	Does the skin have a colored tint from foundation?	Foundation is a tiny bit noticeable on skin surface and in pores	Foundation was not visible on the skin surface but a little noticeable in the pores.	Foundation was not visible on the skin surface but a little noticeable in the pores.	Foundation left a shimmer on the skin surface and is noticeable in the pores
		How much makeup is on the cotton swab? (Scale 1-5)	3	2	1	3
		How much makeup is left on the skin? (Scale 1-5)	3	1	1	2

# Graphs & Observations

	Surface		Water	Micellar Cleansing Water	Cold Cream	Makeup Remover Wipes
<b>Foundation 3:</b> Stick Foundation Applied: Makeup sponge Amount: 1 swipe of stick Time: 8 hours on skin	Orange	Does the skin have a colored tint from foundation?	Foundation is a little noticeable on skin surface and in pores.	Foundation is not visible on the skin surface or in the pores.	Foundation is a little noticeable on skin surface in different spots and in pores.	Foundation was very noticeable on skin surface and in pores.
		How much makeup is on the cotton swab? (Scale 1-5)	3	2	2	3
		How much makeup is left on the skin? (Scale 1-5)	4	1	2	4
	Skin	Does the skin have a colored tint from foundation?	Foundation is very noticeable on the skin and in pores.	Foundation is not very visible on the skin surface or in the pores.	Foundation is not visible on the skin surface and pores.	Foundation is not noticeable on skin surface and in pores.
		How much makeup is on the cotton swab? (Scale 1-5)	5	2	1	2
		How much makeup is left on the skin? (Scale 1-5)	5	2	2	2

Scale for Observations					
	1	2	3	4	5
Amount of Foundation on Cotton Pad/Wipe	100-76%	75-51%	50-26%	25-1%	0%
Amount of Makeup left on Skin and in Pores	Makeup not visible on skin or in pores	Can barley see makeup left in pore but not on skin surface	Make is somewhat visible on skin and in pore	Mostly visible on skin and in pore	Makeup visible on skin and on pores

	Surface		Water	Micellar Cleansing Water	Cold Cream	Makeup Remover Wipes
<b>Foundation 4:</b> Cream Foundation Applied: Makeup sponge Amount: 1 pump Time: 8 hours on skin	Orange	Does the skin have a colored tint from foundation?	Foundation is very noticeable on skin surface and in pores.	Foundation is a little visible on the skin surface and in the pores.	Foundation is a little noticeable on skin surface in different spots and in a few pores.	Foundation was a little noticeable on skin surface and really noticeable in the pores.
		How much makeup is on the cotton swab? (Scale 1-5)	4	1	1	1
		How much makeup is left on the skin? (Scale 1-5)	5	2	3	3
	Skin	Does the skin have a colored tint from foundation?	Foundation is barely noticeable on skin surface and in the pores	Foundation is barely visible on the skin surface and pores.	Foundation is not noticeable on the skin surface or in pores	Foundation is barely noticeable on the skin and in pores.
		How much makeup is on the cotton swab? (Scale 1-5)	4	1	1	2
		How much makeup is left on the skin? (Scale 1-5)	4	1	1	5

# Results

In my hypothesis, I said, "Washing our face at the end of the day with micellar water will remove the most makeup foundation and dirt from the skin and pores." After completing this experiment, I found that my hypothesis was partially correct. The makeup remover that removed foundation the best was Micellar Water and Cold Cream.

# Conclusions

**Foundation 1- Pressed Powder:** Cold Cream removed the most pressed powder foundation and left the least amount of foundation on the skin surface

**Foundation 2- Liquid Foundation:** Micellar Water and Cold Cream tied with how much foundation was removed and how much was left of the skin surface.

**Foundation 3- Stick Foundation:** Micellar Water removed the most makeup foundation from the skin surface.

**Foundation 4- Cream Foundation:** Micellar Water removed the most makeup foundation from the skin surface.

**Overall:** Using Cold Cream or Micellar Water will remove the most makeup and dirt from your face to help keep your face and skin clean and healthy.

# Changes I would Make to My Project

If I were to repeat this experiment, I would test other types of makeup such as blush, lipstick and mascara as well as testing across more people and different skin types.

I would also like to test the difference between using your fingers, a makeup sponge and makeup brushes to apply makeup.

## Expanding My Project

**If I were to expand on my project, would test the following items.**

1. I would use a banana or other food items to represent skin.
2. I would test other make-up such as blush, lipstick and mascara.
3. I would test across more people with different skin types.
4. I would test different ways to apply makeup.

## Products Used

- e.l.f. Halo Glow Liquid Filter
- it Cosmetics Your Skin But Better CC+
- Wet n Wild Megaglo Makeup Stick
- Covergirl Clean Invisible
- Garnier Micellar Cleansing Water
- Neutrogena Makeup Remover Towelettes
- Pond's Cold Cream Make-up Remover

## **What is Foundation Makeup?**

Foundation is makeup, which you can put all over your face and not just little spots like eyeshadow or lipstick.

## **Why we use makeup foundation?**

Foundation is used for 3 basic purposes:

- 1.Foundation creates a base for the rest of the makeup and makes your skinn look even.
- 2.Foundation helps give other products something to grip and stay in place longer.
- 3.It smooths over fine lines and blemishes creating a more even skin texture.

## **What is foundation made from?**

- Pigments- provide color and coverage; usually made from iron oxides for natural skin tones
- Emollients- add smoothness and hydration; usually includes oils, waxes and silicones
- Binders and Stabilizers- helps maintain consistency and make the foundation not separate
- SPF Ingredients- protect skin form UV damage; usually include titanium dioxidde or zinc oxide
- Preservatives- prevents bacteria growth and extends shelf life
- Absorbents- Talc or kaolin that is used to control oil and give a matte finish



## Types of Makeup Foundation

- **Liquid Foundation**

- The original foundation. It is pourable foundation that can be applied with fingertips, a sponge or a brush. Liquid foundation can be buildable meaning you can layer it on itself to have a more pigmented or covered look.
- Can be used with all skin types.

- **Powder Foundation**

- Loose or pressed powders, they are usually lighter coverage than liquid foundation but aren't buildable because it is harder to keep the powder in place.
- Better for Oily skin because it soaks up excess oil.

- **Cream Foundation**

- Thicker than liquid foundation, this foundation is medium to full coverage
- Bb cream and cc cream stand for blemish balm cream and color-correcting cream
- Good for all skin types

- **Stick Foundation**

- Shaped like a large lip balm, twist a top to expose the makeup and apply directly to the skin. Use fingers or sponge to blend

- **Tinted Foundation**

- Light coverage, hydrates and covers skin
- Great for almost all skin types

- **Mineral Foundation**

- Usually, loose powder made of natural minerals. Some of these include mica, iron oxides, and zinc oxides.



## **Different types of Foundation Coverage**

- **Sheer Coverage**- light and natural looking
- **Light Coverage**- conceal minor blemishes and discoloration and allowing the skin to breath
- **Medium Coverage**- provides moderate coverage, hides blemishes, redness and uneven skin tone
- **Full Coverage**- highest level of coverage, conceals major imperfections, scars and discoloration
- **Matte Coverage**- smooth, shine-free finish, ideal for oily or combination skin, helps

## **Where does foundation go on your face?**

- Foundation can be applied all over the face. Through the years, the amount of foundation used has changed. Foundation has been used to enhance or cover the face.

## **How to choose the right foundation?**

### **1. Know your skin type**

- Oily, sensitive, and dry skin all need different products.

### **2. Find the Right Shade**

- Understand your skin's undertone
- Skin tone and undertone are two separate pigments. Skin tone refers to the color of your skin when you look in the mirror. Your ethnic background and heritage influence your skin tone Skin tone might change if exposed to sunlight.
- Undertones are pigments that are visible through your skin.

### **3. Determine the coverage you need**

- Full coverage or a natural look



## **Types of Make-up Remover**

### **1. Makeup remover wipes**

- Easiest and quickest way to clean your face
- One-size-fits-all
- Convenient, quick, handy to travel with

### **2. Micellar Water**

- A solution that contains tiny particles of cleansing oil (micelles) and water. Micellar waters latch on to your makeup due to mild surfactants they are made of and break down makeup and skincare easily.

### **3. Cleansing Foams**

- Melt your makeup upon contact with it and wash away all traces of makeup and skincare

## **Makeup Tips**

1. Less is more. Start by applying a thin layer and build the foundation as needed.
2. Use a damp sponge to wake up your foundation and blend it if it has settled into a line or wrinkle.
3. Press small amounts of powder into your skin if it is oily
4. Use the right foundation brush to help keep it in the right place

# Resources

- “Flawless Skin Starts With Makeup Removal: A Comprehensive Guide!” Nivea. 2025. <https://www.nivea-me.com/en-me/advice/makeup-removers-types-benefits-and-how-to-use-them>
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