

# **Home remedies V.S Prescriptions**

**New Mexico  
Supercomputing Challenge  
Final Report  
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**Team Number 48  
Jackson Middle School**

## **Team members**

**Matt Jannakos  
Chris Winter  
Nick Shortencarier**

## **Teacher**

**Mrs. Glennon**

## **Project Mentors**

**Dale Henderson  
Betsy Fredrick  
Nick Bennett**

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## **Executive Summary**

Almost everyone in the world has faced chapped lips. Our team faced them too. So our team wanted to find home remedies for chapped lips. We have chosen lemons, and cucumbers for home remedies, and prescriptions were Vaseline and lotion.

Which one will work the best? How will the environment affect chapped lips? Does the amount of cure applied to the lips matter?

The first step we did was gathering information on chapped lips and the cycle of lips becoming chapped, using a cure, and lips clearing up. Then we tested the remedies on ourselves. After that we tested on other volunteers. Our problem didn't contain very many variables so we used Starlogo TNG for programming.

The variables were: did they get cured, how long did it take, and were there any side effects.

Our programming shows if they were cured, and which remedy cured them.

## **Method**

Our method was to test the remedies on a certain number of people over a certain amount of time. Each subject tested each remedy over a week's period twice a day, at the same time each day. Then they were allowed two weeks to get their lips chapped again and tested the next remedy. They did this until they had tested all four remedies.

We supplied each volunteer with the same form to complete and return to us. Volunteers supplied their own remedies.

Survey forms were given to three eighth grade math teachers for each of their classes to complete. The results were tallied and placed in an Excel worksheet.

## Results

Our results showed that Lotion worked the best to cure chapped lips. Then second was lemon, then cucumber, and last Vaseline. They all were tested equally and evenly.

The following chart is the results from the eighth grade survey through our math teachers.

<b>Chapped lip cures</b>			
<b>Cure</b>	<b># of times chosen</b>	<b>Season</b>	<b># of times occurred</b>
Chap stick	68	Winter	114
Carmex	30	Summer	23
Burts bees	15	Fall	23
Vaseline	10	Spring	20
lip gloss	6	all year	7
Blistex	3		
apple sauce	1		

## **Conclusion**

Our conclusion was that if you have chapped lips you should use lotion for curing them. Lemons work, but not as much as the lotion and lemons hurt a lot.

## References

[www.webmd.com](http://www.webmd.com), Copyright 2005- 2008, January 6, 2008.

[www.home-remedies-for-you.com](http://www.home-remedies-for-you.com), Copyright 2004, January 6, 2008.

[www.mothenature.com](http://www.mothenature.com), Copyright 1995- 2008, January 6, 2008.

Thomas, Peggy, Medicines From Nature, Copyright 1997, Pages used 36, 37, 52.

Gordon, James S MD, Holistic Medicine, Copyright 2001, Pages used 64, 65, 72.

## **Most Significant Achievement**

It was interesting that a lemon could cure chapped lips. I would have thought it would make it worse.

*Nick Shortencarier*

My most significant achievement was that I learned how to use the program Star Logo TNG and this may help in my career to come.

*Matt Jannakos*

My most significant achievement for this challenge is I learned how hard it is to stay focused and listen to the judges' suggestions.

*Christopher Winter*

## Credits

**Mrs. Glennon;** we thank Mrs. Glennon because she made time for us so we could stay after school every day to work on our project.

**Dale Henderson;** we thank Dale because he came after school for a longer period of time and helped us with programming details in Starlogo TNG. He helped us understand it a lot more.

**Betsy Fredrick;** we thank Betsy especially because she stayed with us after school for long hours so she could teach us the basics of Starlogo TNG. She recruited Dale to help us further.

**The eighth grade student body;** we thank the eighth grade student body for taking our surveys and taking your time to help us. **Mr. Sensabaugh, Ms. Sila, and Ms. Bryant** for helping get results from the survey.

**JMS PTA;** for monetary support of our project.

# Code

The image displays a Scratch code editor with two main sections: **Setup** and **Runtime**.

**Setup:**

- Clear All**
- Create Lotion:** num 13, do: set color white, set x -50, set y -50
- Create Lemon:** num 15, do: set color yellow, set x 50, set y -50
- Create Chapped Lips:** num 20, do: set color red, set y 50, set x 0
- Create Vasaline:** num 7, do: set color orange, set x 25, set y -50
- Create Cucumber:** num 11, do: set color green, set x 0, set y -50

**Runtime:**

- secs 100000000
- Lotion:** Lotion Lotion
- Chapped Lips:** Chapped Lips Chapped Lips
- Lemon:** Lemon lemon
- Cucumber:** Cucumber Procedure
- Vaseline:** Vasaline Procedure1

**Globals:**

- Collision:** Vasaline Chapped Lips set color cyan
- Collision:** Cucumber Chapped Lips set color gray
- Collision:** Lotion Chapped Lips set color blue
- Collision:** Chapped Lips Lemon set color magenta

This section shows close-up views of movement scripts for five different objects:

- Lotion:** forward steps 1, right degs random 5, left degs random 5
- Chapped Lips:** forward steps 1, left degs random 5, right degs random 5
- Lemon:** forward steps 1, right degs random 5, left degs random 5
- Cucumber:** forward steps 1, left degs random 5, right degs random 5
- Vaseline:** forward steps 1, left degs random 5, right degs random 5