You Cannot Wear Bubbles

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Brief: This article was inspired by the Rose Park Math and Science Magnet Middle Prep, 5th grade STEM Class. During “Bubbleology” week students learned about a variety of topics, such as surface tension, dilutions, and the effect of temperature on molecules, through soap bubbles.

Introduction

The question is whether you can wear bubbles or not. We know that bubbles last longer on wet surfaces and that bubbles actually bounce on cloth. We found you cannot wear bubbles because the bubble pops immediately. Even if you moisturize your hands your bubble will still pop.

Hypothesis

If you moisturize yourself then you will be able to keep your bubble from popping because bubbles like moist surfaces.

Materials
Bubbles
Cloth
Skin
Lotion
Straw
Timer

Picture from:
http://www.google.com/search?q=bubbles+popping&safe=active&biw=1366&bih=674&source=lnms&tbm=isch&sa=X&ei=a42IVLOdI4ymNt_9gqB&ved=0CAYQ_AUoAQ&safe=active&surl=1

Data and Analysis

We used Microsoft Excel to analyze our data.

<table>
<thead>
<tr>
<th>Materials</th>
<th>Time (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cloth</td>
<td>0.47s</td>
</tr>
<tr>
<td>Skin</td>
<td>0.77s</td>
</tr>
<tr>
<td>Moist skin</td>
<td>0.17s</td>
</tr>
</tbody>
</table>

Table 1: The time each bubble lasted on a surface was measured.
**Figure 1:** The independent variables used in each trial are the materials (skin, cloth, or moist skin). The dependent variable is the length of time each bubble lasted. This chart compares the average time a bubble lasted, for each condition.

**Conclusion**

You cannot wear bubbles. Although the bubbles on skin lasted a long time, it was not long enough to actually wear. The hypothesis was not supported because a bubble on moist skin lasted even less time than one on dry skin.

**Acknowledgements:** Kyle says he really enjoyed this project and really wants to do it again. Kyle would like to thank his grandmother. He also thanks his friend Andrew for scientific inspiration.