

e-mail from **Sumptuous Skincare Ltd**

**From:** Mike.Smith@SumptuousSkincareLtd.co.uk  
**To:** Science Consultants  
**Subject:** Foaming

Dear Consultants,

We are a big company that makes ingredients for lots of every day products such as sun creams, soap, medicines and food. Our scientists are developing a new bubble bath and would value your advice on suitable ingredients and recipes.

The bubble bath must produce the right amount of foam, must not be too runny, must be kind to the skin and should look and smell nice to appeal to our customers.

We have sent you a sample of our latest bubble bath to test. We would like you to find a method to discover how well our sample compares with bubble bath from the supermarket. Our scientists need to know whether you think it produces enough foam and whether the foam lasts long enough.

Secondly, the bubble bath must not be too runny. We would appreciate you testing some ingredients that we could use to make the product thick enough for our customers.

Finally, the bubble bath should moisturise the skin and feel creamy.

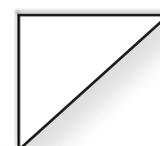
We would like you to develop and test your own bubble bath recipe using the information you have from your experiments.

Please send us your recipes and any measurements, tables, graphs and other evidence that you think would help our scientists to produce a quality product for our customers.

We look forward to hearing from you.

## Mike Smith

Mike Smith  
Scientist, Sumptuous Skincare Ltd



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Dear Consultants,

Thank you for the information you sent to us about all your investigations. Your ideas for making foam were very interesting and creative. Our formulation scientists here at Sumptuous Skincare Ltd were very impressed with the accuracy of the measurements in your foam tests.

We were interested to know that in Activity 4 you discovered the test sample of our new bubble bath did not seem to perform very well compared with other well known brands. Our Quality Control scientists believe that we must have added too much oil to our recipe. Oil is essential to provide moisture and to prevent the other ingredients irritating the skin. However, too much oil can reduce the amount of foam that the bubble making ingredient can produce.

We have sent you a copy of the recipe we used in our test sample (Activity sheet 5). We would like you to develop an improved bubble bath recipe of your own, using these ingredients and the information you have from previous experiments. We would particularly like to know how changing the amount of thickening granules and oil affects the quality of the product. Once you have tested the foaming of the bubble bath and you are happy with the improved recipe, our scientists would be grateful to receive the recipe and any measurements, results, photographs or other evidence you may have.

Yours sincerely

**Mike Smith**

Mike Smith  
Scientist, Sumptuous Skincare Ltd

# Activity Sheet 5



## Simple Foaming Bubble Bath

Ingredient	Function	Volume (ml)
Bubble making ingredient	Foaming ingredient	54.5
Essential oil	Moisturising/Anti-irritancy	45.0
Thix	Thickener	0.5
Fragrance	Fragrance	As required
Colour	Colourant	As required

Slowly add Thix to Foamer solution until thickened. Then add Essential oil slowly with gentle stirring.

Add fragrance and colour as required.

Appearance: Opaque

Viscosity: Not measured