

JR-SCIENTISTS

CHICK PEA FOAM

Have fun with this non-toxic sensory foam made with ingredients you probably already have in the kitchen!

INSTRUCTIONS

STEP 1: Drain one can of chick peas and save the liquid.

STEP 2: Add 1/2 a teaspoon of cream of tartar.

STEP 3: Add food coloring (optional) and mix for 5 minutes with a whisk or electric mixer.

STEP 4: Once you have reached a consistency that is similar to shaving cream you are ready to play!

SUPPLIES

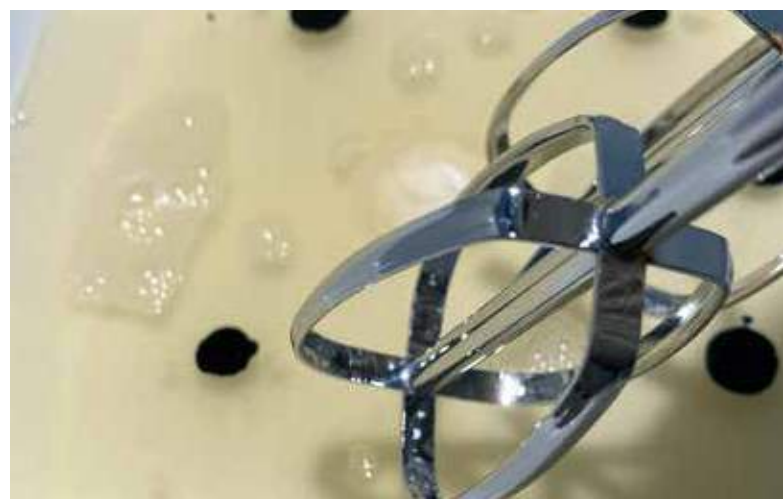
1 Can chick peas
Food coloring
Cream of tartar
Mixer or whisk

THE SCIENCE

Foams are a mixture called an emulsion. Mayonnaise is an oil and water emulsion and salad dressing is water and oil, chick pea foam is a water and air based emulsion. Air molecules and water molecules are combined to create a new substance.

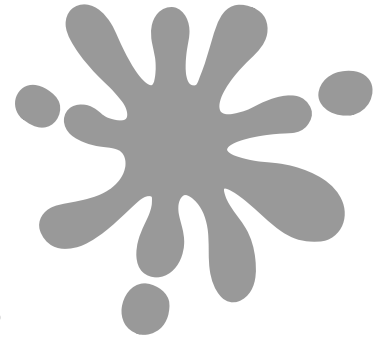
Chick pea foam is also called 'Aquafaba'. The peas contain several substances that allow thickening and that also act like soaps!

The combined presence of these substances in chickpea liquid means that, when agitated, it will produce a foam. The cream of tartar is a stabilizing ingredient that will create the foam faster.

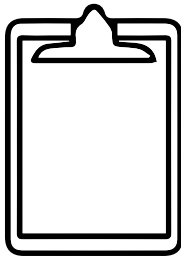


Chick Pea Foam Observations

Use this worksheet to process and evaluate your work.



Would you say the foam is a liquid, or is it more like a solid?



RECORD

What did you observe when you added the cream of tartar?

Leave your chick pea foam uncovered for a day.

What happened?

Does the texture change the more you play with it?

What did you learn?
