

The United Thank Offering Presents:
Waves of Gratitude
A Vacation Bible Camp Curriculum Focused on Gratitude



Bubble Solution Options and Recipes

Adapted from: www.verywellfamily.com

Bubbles seem like an easy enough thing, however, there is a science to making good bubble solution. Water has a high surface tension, which means water bubbles burst quickly and aren't much fun. By adding soap to water, it lowers the surface tension thus allowing larger bubbles to form, however, they dry out quickly and burst. Glycerin helps bubbles last longer by slowing down evaporation.

Simple Bubble Solution Recipe

- 1 cup water
- 2 tablespoons light karo syrup OR 2 tablespoons glycerin
- 4 tablespoons non-toxic dish soap

Stir until combined.

Colored Bubbles

For added fun, you can add food coloring to your bubble solution to make colored bubbles. This is a "test as you go" amount, as you'll want to add a bit at a time until you get the color you want. CAUTION: food coloring can stain, so use this away from anything you potentially don't want stained. Food coloring does wash out of things over time, but to be safe, keep your distance from cloth items or cars.

Sugar Bubbles

Adding sugar helps produce bubbles that are bigger and slower to pop. This recipe is great for a bubble-blowing contest.

- 1 cup water
- 2 tablespoons liquid soap
- 1 tablespoon glycerin
- 1 teaspoon sugar

Mix until the sugar dissolves. (To speed this up, you can also heat $\frac{1}{4}$ cup of the water and dissolve the sugar there before adding to the other ingredients.)