

Giant Bubbles

Recommended for Summer Activities/
Projects



Experiment Time: Whole Activity (depends on if wands are being made and includes play time)

Experiment Type: Hands On and Take Home (if they make their own wand)

Experiment Link:

<https://m.youtube.com/watch?v=rg2Zj8gGp8o&frags=pl%2Cwn>

Ingredients:

- Dish Soap (High Quality like Dawn Platinum)
- Guar Gum (Glycerine can also work)
- Water (distilled if possible)
- Baking Powder
- Water
- Cotton Ropes (High % of cotton)
- Wooden Dowels (or some form of sticks to make the wand handles)
- Bucket or Large Container
- Metal Washers (or some sort of weight to add to the string)

Directions:

- Add a tablespoon of Guar Gum, a whole bottle of dish soap (depending on size of container) into the bucket and mix until Guar Gum has dissolved
- Add 3 jugs/gallons worth of water (depending on size of container) to the bucket and mix in 3 tablespoons of baking powder
- Take one end (securely) of the rope and tie it to the end of your dowel, then measure out an appropriate distance of rope to tie to the other dowel (you should still have a loose end after)
- Thread loose end of rope through the washers (only need 2-4) and tie loose end to the first dowel (this second connecting line should be larger than the first)
- Tie a knot in the middle with the washers to secure them
- Dip rope end of bubble wand into solution, keeping dowels together, raise them and slowly spread the dowels

Notes:

- Great for windy days
- Instructor can chose to have campers make their own wands, or pre make them to save time and be able to reuse
- Consider splitting solution into separate bowls, making it easier to share
- If container (a kiddie pool) is large enough, a hula hoop can also be used as a wand
- Some campers may need assistance when using their wands, consider buying or making a one handed wand