

Post Show Hand-Out From The School Assembly

BubbleMania: Science, Art & Comedy!

Created and Performed by Casey Carle, Bubble-ologist, Artist & Comedian

www.bubblemania.com www.Casey-Carle.com

SCHOOLS: please share this information with your students as a follow up to the assembly.

TEACHERS: for additional classroom activities and discussions, find a Study Guide co-written by The Smithsonian Institute at bubblemania.com/science/studygd.html

PARENTS: Any references to websites, videos and materials are safe for all ages.

BUBBLEMANIA'S "SECRET" BUBBLE FORMULA! (Shhhhhhhh)

1/2 gallon Distilled water (Found in most grocery stores and pharmacies) (Tap water can be OK but no promises)

1 Tablespoons Glycerin (Found at most pharmacies as either skincare or first-aid)

6 ounces "Non-Ultra" Dawn/Joy **OR** 8-10 ounces "Ultra" Dawn/Joy Products*

* Alternate Soap Choice: "Ajax" Dish Detergent. Avoid the really cheap stuff.

Helpful: For even stronger, longer lasting bubbles add 8-10 ounces of quality commercial bubble mix.

Mixing: Use a bucket or container that has been cleaned very, very well with the same dish soap you are using for bubbling. Warm water is best. Mix well but avoid making a lot of foam. When not in use, keep it covered so evaporation doesn't thicken the mix. It can be helpful to let the mix sit for 24 hours before using. Do not store below 60 degrees for long periods.

Bubbles Do Not Like: Humidity under 30%. Direct sunlight. Dusty air. Strong wind. Foamy build-up (skim it off). Bar-type soaps like in the bathtub (it can ruin your mix!). Kids who only want to pop bubbles! Oils, grass or dirt getting into the mix.

GOOD Bubbling Conditions: Humidity 30%-60%. Cloudy days. Shady places. Gentle wind.

GREAT Bubbling Conditions: Humidity 60% & higher. After a rain. Foggy and Muggy days. Very light breezes. Dusk and dawn (for the most vibrant colors!)

Fun Bubbling Times: Near a pond, lake or a big puddle to float bubbles! (Be environmentally friendly: limit the amount of soap in the water.) Near a warm house on a cool fall or spring day (the bubbles will rise up with warmer air!) Below 10 degrees Fahrenheit (to freeze the golf ball-size bubbles!)

Important Bubbling Notes:

* Distilled water is better for this home-made mix because water from the sink (tap water) is often "hard water" and doesn't work as well.

* Glycerin [Gliss-er-in] helps slow down the evaporation of water so the bubble doesn't dry up as fast. It is not required on days with high humidity (50% or higher) when evaporation is slowed down naturally. Find glycerin in the "skin care" or "first aid" section at a pharmacy. It is safe, but too much can make your formula too heavy for good bubbling.

* Warning: Soap solution will sting your eyes, too much can damage grass and vegetation and is very slippery.

Remember: SAFETY FIRST!

Don't Be THAT Guy!



Get help making bubble art! Visit bubblemania.com/video and find the "Home Bubble Workshop Video" that gives you step-by-step instructions for building fun and funny creations. In no time you'll be making a bubble ice cream cone, bubble flower, bubble in a bubble, a bubble clown face, a square bubble and lots more! Good, clean (not very messy) fun for all ages.

H A V E F U N & K E E P O N B U B B L I N G !

BubbleMania! is Effervescent Entertainment or Awesome Science Programs!

Learn more about school and family shows at www.bubblemania.com

Learn all about Casey at Casey-Carle.com