

Name: _____

Bubbly Adventure

by Rebecca Besser

Hello! I'm a bubble! I can fly up to the sky, or land softly on blades of grass. If I pop, you don't have to be sad, just dip your wand into more bubble solution and blow. I will reappear! I love to play.



There are a lot of things we can do together for fun. I'm really colorful! Do you want to see my colors? Catch me on a bubble wand, and take me to a dark room. Bring a flashlight! You will need it to see how beautiful I am. After taking me into the dark, turn on the flashlight. Hold it under me, with the beam going right through me. Can you see all my colors?

Another thing I can do is fly really high! Ask your mom or dad to boil some water on the stove. When the water is ready, blow bubbles directly over the hot water. You may have to stand on a chair to reach, but be very careful. Don't get too close. The water is HOT!

Watch me float high, high, and higher! Will I hit the ceiling? Hot air rises and it pushes down cold air. This movement of air is called '*air current*'. I will ride the hot air up and will move back down with the cold air. It's like sliding down a slide. You climb up the ladder, then you slide back down on the sliding board.

I also like to change shape. Ask your mom or dad to give you some pipe cleaners or twisty ties to make your own bubble wand. Twist them into different shapes, like squares or triangles. Don't forget to make a handle! Dump some bubble solution into a bowl and dip in the different shapes. Make sure the shapes get completely covered with bubble solution. Blow and watch!

I'm not the shape of a square or a triangle! I'm still round! The air inside me is trying to get out, pushing against me from the inside. The air pushes evenly underneath my soapy skin, making me round, and shaped like a sphere.

It's kind of like you sitting on the floor with your legs straight out in front of you, making you an L shape. When you stand up, you become a straight line again. You will always return to your natural shape no matter how much you twist or bend yourself.

I hope you had fun playing with me today. I had a great time, and I'm looking forward to playing with you again soon.

Bubble Solution Recipe

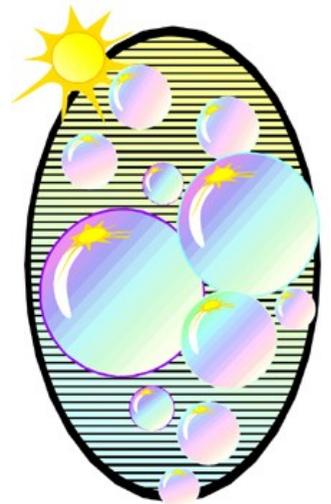
Below is a recipe for Bubble Solution. You can make it yourself from things you have at home.

Ingredients:

- $\frac{1}{2}$ cup dishwashing detergent (don't use auto dish detergent)
- $1\frac{1}{2}$ cups of water

Directions:

Mix water and detergent together GENTLY in a medium or large bowl. Try not to make bubbles in the solution while mixing. Dip your wand and blow. Add more detergent or leave solution out over night uncovered to make it stronger.



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1. If you blow a bubble in a dark room and shine a flashlight on it, what will happen?

2. What is *air current*?

- a. hot water on a stove b. the movement of air
c. the movement of a bubble d. a balloon

3. What shape is a bubble's natural shape?

- a. circle b. cube
c. sphere d. triangle

4. What type of air rises and pushes bubbles upwards?

- a. hot air b. cold air
c. cube d. wet air

5. If you make a bubble with a wand shaped like a triangle, the bubble will still be round. Explain why this happens.

6. What two ingredients are needed to make bubble solution?

7. If you make bubble solution and leave it out overnight, does it become stronger or weaker? _____

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Fill in the missing letters to create a word from the story.

Then, write the full word on the line. Be sure you spell each word correctly.

1. ___ l ___ s h ___ ___ g h ___

hint: small light that is easy to carry

1. _____

2. b ___ i ___

hint: heat up a liquid so it turns into water vapor

2. _____

3. ___ a ___ d ___ ___

hint: an object used for climbing

3. _____

4. ___ ___ u a ___ e s

hint: four-sided polygons

4. _____

5. ___ ___ c ___ p ___

hint: set of directions for making something

5. _____

6. ___ n ___ ___ v ___ ___ e ___

hint: not covered

6. _____